

$$00A0 \ 2203\exists \ 2200\forall \ 2286\subseteq \ 2713x \ 27FA\iff 221A\sqrt{} \ 221B\sqrt[3]{} \ 2295\oplus \ 2297\otimes$$

OpsGrat Documentation

1.0.0

OpsGrat team

2019 12 05

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1.1

1.1.1

- CentOS 7 Red Hat 7
- CPU: ≥ 4 Core
- ≥ 8 GB
- ≥ 40 GB

1.1.2

```
http://www.opsgrat.com/download/  
opsgrat-all-in-one.tar.gz
```

1.1.3 OpsGrat

```
1 /opt  
2 /opt tar -zxvf opsgnat-all-in-one.tar.gz  
3 /opt/opsgrat setup.sh cd /opt/opsgrat && sh setup.sh
```

1.1.4 SSO

```
1 SSO http://ip:8001/ ( ip opsgnat ip )  
2 admin admin
```

1.1.5 OpsGrat SSO

SSO " " " "

超级管理员
超级管理员

SSO

用户管理

菜单管理

子系统管理

日志管理

系统设置

全局搜索...

OpsGrat SSO 帮助 登出

访问历史: 系统列表 > 变更列表 > 子系统管理

子系统管理

+新增 删除 名称

	ID	名称	路径	标签	权重	系统描述	操作
☐	10	OpsGrat	http://127.0.0.1:8000/	rocket	0	自动化系统	编辑 删除
☐	1	SSO	http://127.0.0.1:8001/	user	-1	单点登录系统	编辑 删除

显示第 1 到第 2 条记录, 总共 2 条记录

OpsGrat SSO ip OpsGrat ip

1.1.6 License

OpsGrat http://ip:8000/ (ip opsgrat ip)
OpsGrat

超级管理员
超级管理员

Dashboard

自动化管理

资源管理

模板管理

通知管理

系统管理

作业设置

团队管理

模块管理

Tag管理

License

OpsGrat SSO 帮助 登出

License上传

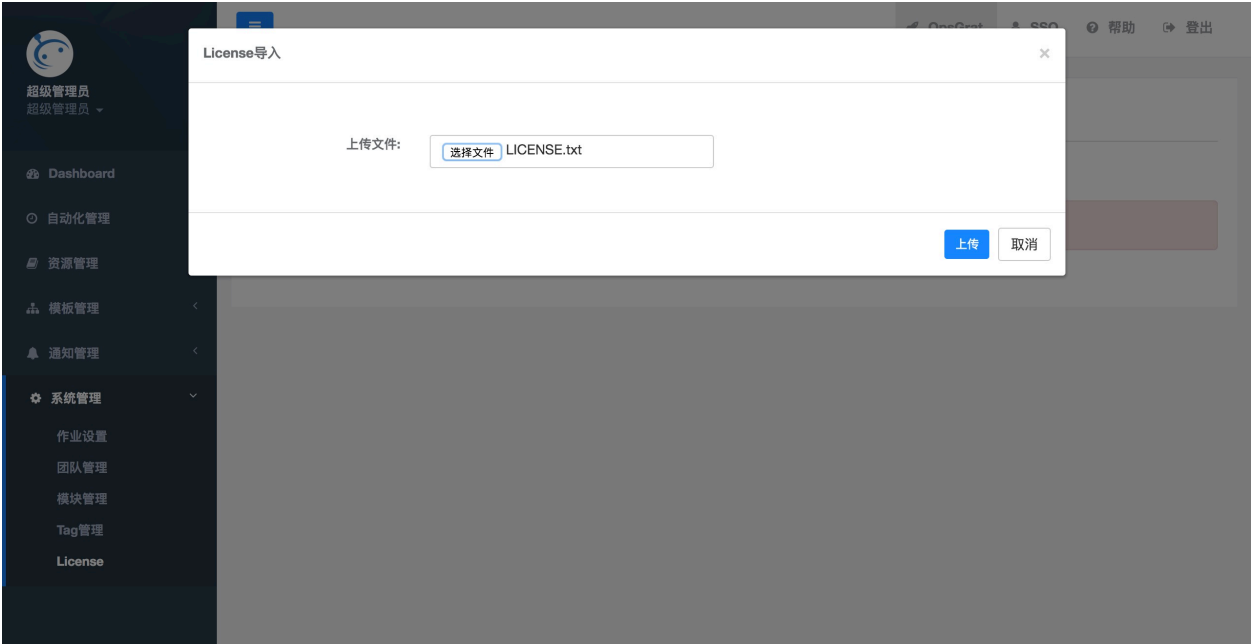
导入 查看MAC地址

还未导入 License, 请导入

4

Chapter 1.

" " License License



License

1.2

OpsGrat All In One

OpsGratOpsGrat

- OS CentOS 7/Red Hat 7
- Python: 3.7.4
- MySQL: 5.7
- Redis
- RabbitMQ
- Nginx

1.2.1 OpsGrat

/opt/opsgrat/opsgrat/opsgrat/configs.yml

OpsGrat

```
# opsgrat db
DB_NAME: opsgrat
DB_USER: root
DB_PASSWORD: root
DB_HOST: 127.0.0.1
DB_PORT: 3306

# sso db
SSO_DB_NAME: opsgrat_sso
SSO_DB_USER: root
SSO_DB_PASSWORD: root
SSO_DB_HOST: 127.0.0.1
SSO_DB_PORT: 3306

REDIS:
  HOST: 127.0.0.1
  PORT: 6379
  PASSWORD:

RABBIT_MQ:
  HOST: 127.0.0.1
  PORT: 5672
  USER: guest
  PASSWORD: guest

# 系统名称和子系统名称对应
SYSTEM_NAME: OpsGrat

# 日志目录
LOG: /opt/opsgrat/var/log/opsgrat

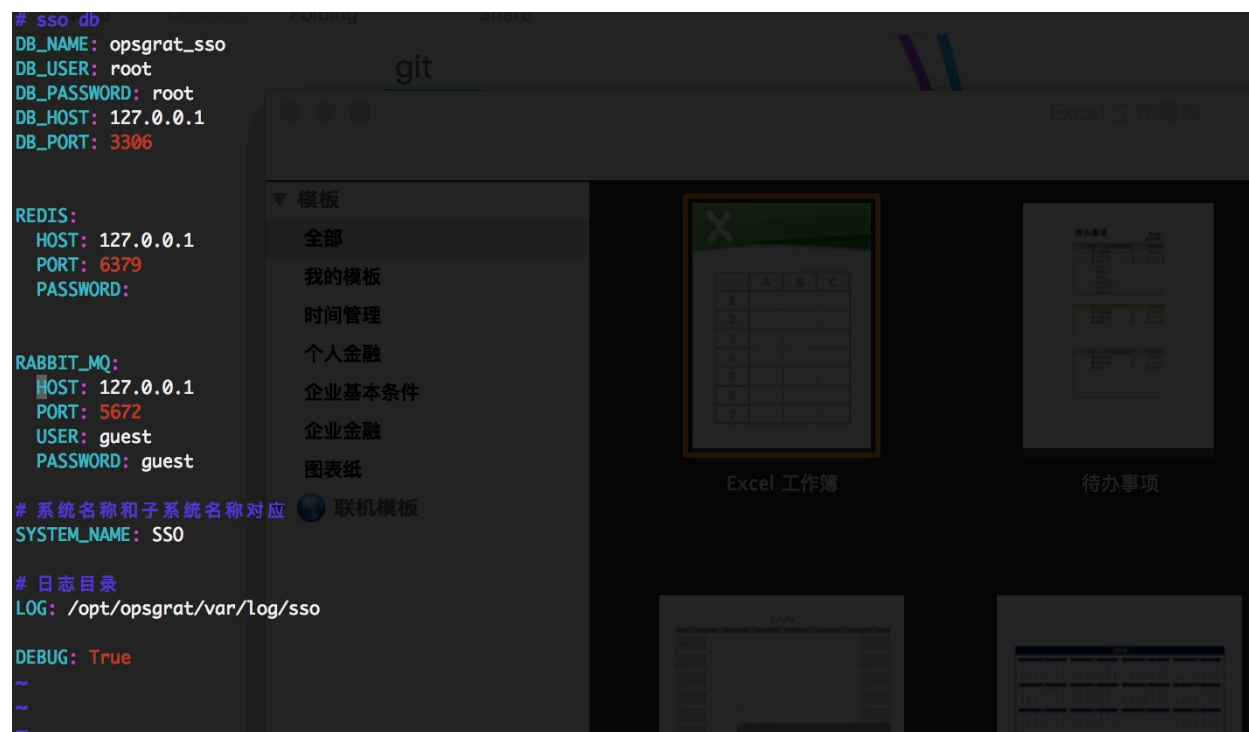
DEBUG: True
```

DB_NAME	String		SSO
DB_USER	String		SSO
DB_PASSWORD	String		SSO
DB_HOST	String		SSO ip
DB_PORT	String		SSO
SSO_DB_NAME	String		SSO
SSO_DB_USER	String		SSO
SSO_DB_PASSWORD	String		SSO
SSO_DB_HOST	String		SSO ip
SSO_DB_PORT	String		SSO
REDIS:	Dict		Redis
• HOST	String		Redis ip
• PORT	String		Redis
• PASSWORD	String		Redis
RABBIT_MQ:	Dict		Rabbitmq
• HOST	String		RABBIT_MQ ip redis
• PORT	String		RABBIT_MQ
• USER	String		RABBIT_MQ
• PASSWORD	String		RABBIT_MQ
SYSTEM_NAME	String		SSO OpsGrat
LOG	String		OpsGrat
DEBUG	String		debug

1.2.2 SSO

```
/opt/opsgrat/sso/sso/configs.yml
```

SSO



DB_NAME	String		SSO
DB_USER	String		SSO
DB_PASSWORD	String		SSO
DB_HOST	String		SSO ip
DB_PORT	String		SSO
REDIS:	Dict		Redis
• HOST	String		Redis ip
• PORT	String		Redis
• PASSWORD	String		Redis
RABBIT_MQ:	Dict		Rabbitmq
• HOST	String		RABBIT_MQ ip redis
• PORT	String		RABBIT_MQ
• USER	String		RABBIT_MQ
• PASSWORD	String		RABBIT_MQ
SYSTEM_NAME	String		SSO OpsGrat
LOG	String		OpsGrat
DEBUG	String		debug

1.2.3

```
OpsGrat SSO /opt/opsgrat/etc/supervisor/conf.d
```

opsgratd.ini	OpsGrat 10 8Core*16G
notification.ini	OpsGrat 5
opsgratbeat.ini	OpsGrat
ssod.ini	SSO AD 2

```
opsgratd.ini --concurrency CPU +1
```

1.2.4 uwsgi

```
OpsGrat uwsgi /opt/opsgrat/uwsgi/opsgrat-uwsgi.ini
7500
```

()

()

```
4
supervisor /opt/opsgrat/etc/supervisor/conf.d/opsgrat-web.ini
```

```
SSO uwsgi /opt/opsgrat/uwsgi/sso-uwsgi.ini
7501
4
supervisor /opt/opsgrat/etc/supervisor/conf.d/sso-web.ini
```

1.2.5 nginx

```
OpsGrat nginx /opt/opsgrat/nginx/etc/nginx/conf.d/opsgrat.conf
OpsGrat web 8000

SSO nginx /opt/opsgrat/nginx/etc/nginx/conf.d/sso.conf
SSO web 8001
```

1.2.6

OpsGrat

```
OpsGrat /opt/opsgrat/var/log/opsgrat/
opsgrat-worker.log OpsGrat OpsGrat
notification-worker.log OpsGrat
opsgrat_error.log opsgrat.log OpsGrat web
```

SSO

```
SSO /opt/opsgrat/var/log/sso/
sso-worker.log sso
sso.log sso_error.log SSO web
```

supervisor

```
supervisor /opt/opsgrat/var/log/supervisor/
supervisor OpsGrat SSO
```

1.2.7 &

supervisord

```

supervisord
systemctl start supervisord
systemctl stop supervisord
systemctl restart supervisord
systemctl enable supervisord
systemctl disable supervisord

```

OpsGrat SSO

```

OpsGrat SSO    supervisor
supervisorctl -c /opt/opsgrat/etc/supervisor/supervisord.conf start all
supervisorctl -c /opt/opsgrat/etc/supervisor/supervisord.conf stop all
supervisorctl -c /opt/opsgrat/etc/supervisor/supervisord.conf restart all
supervisorctl -c /opt/opsgrat/etc/supervisor/supervisord.conf

```

nginx

```

nginx OpsGrat SSO web  nginx
systemctl start nginx
systemctl stop nginx
systemctl restart nginx
systemctl enable nginx
systemctl disable nginx

```

MySQL

```

MySQL
service mysql start
service mysql stop
service mysql restart
systemctl enable mysql
systemctl disable mysql

```

Redis

```

Redis celery      OpsGrat   Redis
systemctl start redis
systemctl stop redis
systemctl restart redis
systemctl enable redis
systemctl disable redis

```

RabbitMQ

```

rabbitmq celery broker rabbitmq
systemctl start rabbitmq-server
systemctl stop rabbitmq-server
systemctl restart rabbitmq-server
systemctl enable rabbitmq-server
systemctl disable rabbitmq-server

```


2.1

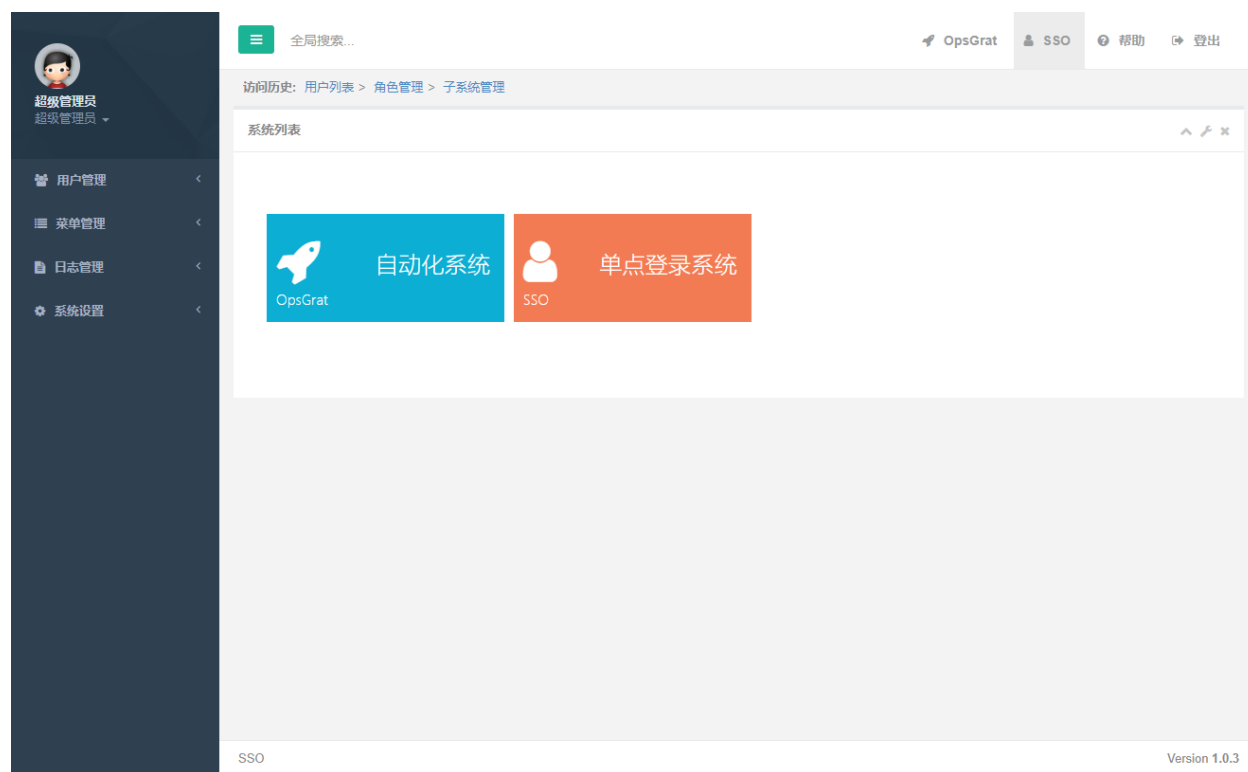
2.1.1

- OpsGrat

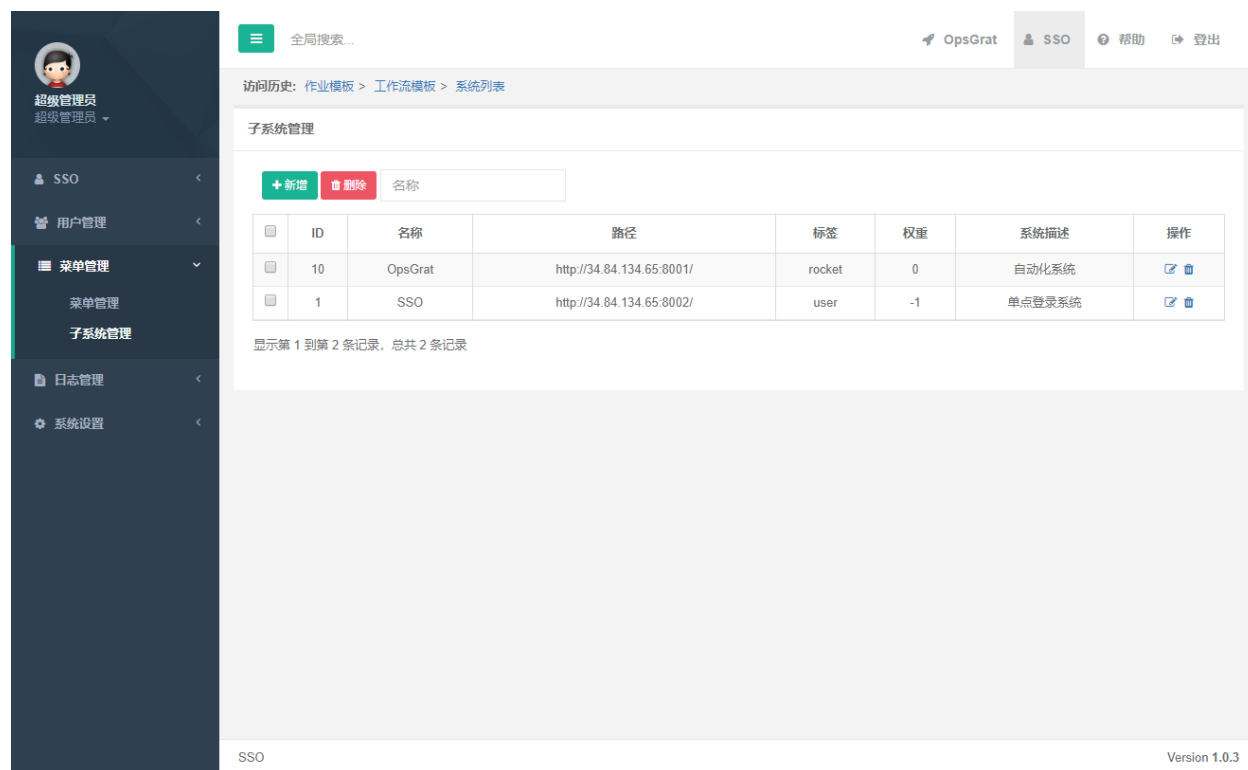
2.1.2

1.1 SSO

SSO SSO



OpsGrat SSO



1.2 ldap

ldap

超级管理员

超级管理员

SSO

用户管理

菜单管理

日志管理

系统设置

基本设置

全局搜索...

OpsGrat SSO 帮助 登出

访问历史: 系统列表 > 子系统管理 > ldap设置

ldap设置

LDAP 地址:

请填写LDAP 地址, 例如: ldap://10.0.1.1:389

绑定DN:

请填写绑定DN

密码:

请填写密码

用户OU:

请填写用户OU, 多个用户OU用换行隔开

用户过滤器:

(&(objectClass=person)(sAMAccountName=%(user)s))

状态:

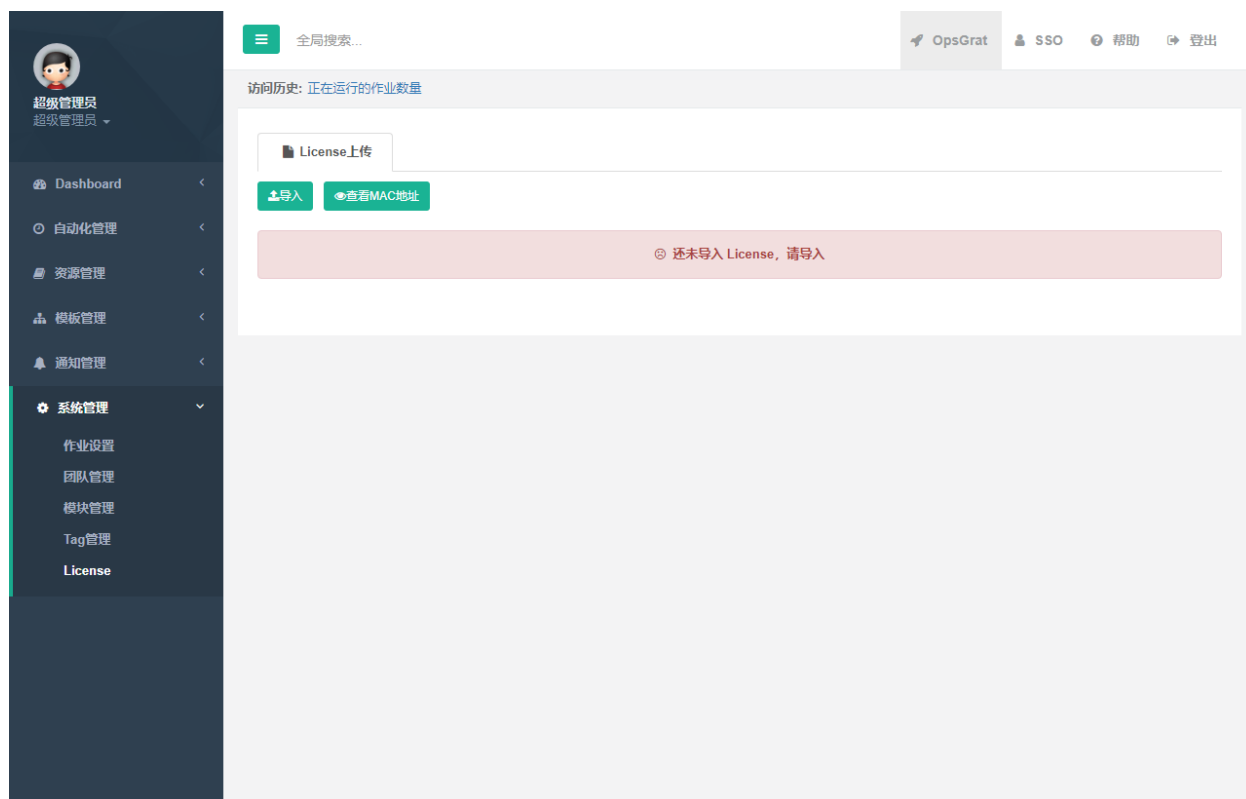
启用

新增

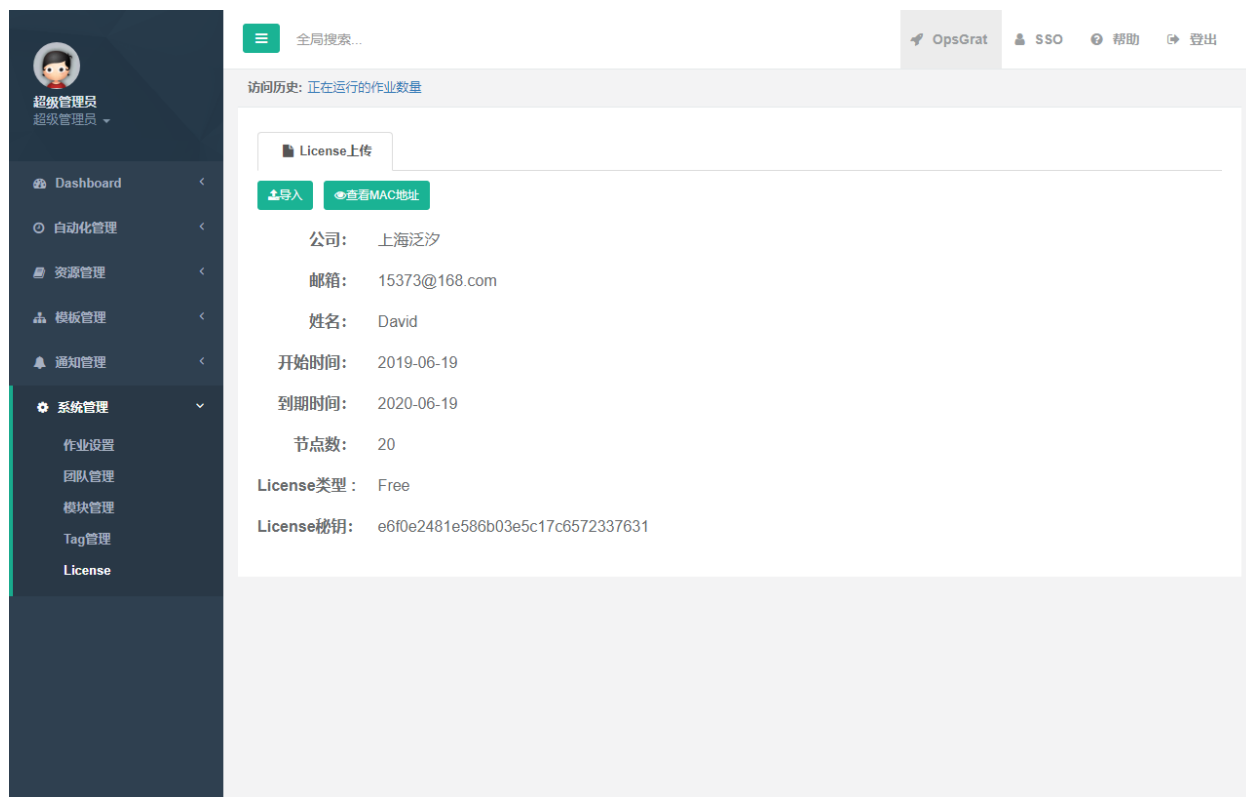
SSO Version 1.0.3

1.3 opsgrat License

opsgrat	opsgrat
License	License



License.txt



1.4

" " " "ldap " " "AD" "AD" ldapldap" "SSO

超级管理员
超级管理员

SSO

用户管理

用户管理

部门管理

角色管理

菜单管理

日志管理

系统设置

全局搜索...

OpsGratSSO帮助登出

访问历史: 系统列表 > 子系统管理 > ldap设置

用户列表

+新增AD禁用启用

账号/姓名/email/手机/省

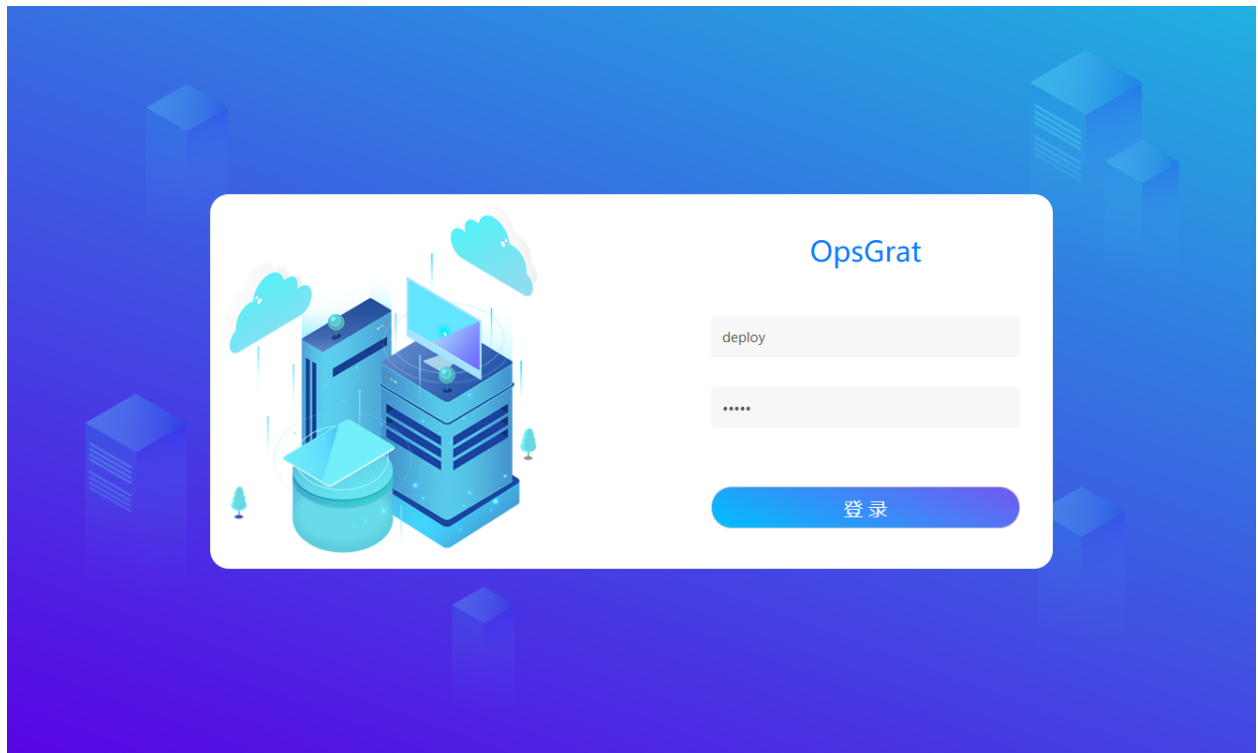
	ID	用户账号	姓名	邮箱	手机号	钉钉ID	超级管理员	管理员	用户状态	角色	备注	操作
☐	1	admin	超级管理员	admin@xx.com			是	是	启用	管理员权限组		编辑 删除

显示第 1 到第 1 条记录, 总共 1 条记录

SSOVersion 1.0.3

" "deploy

deploy



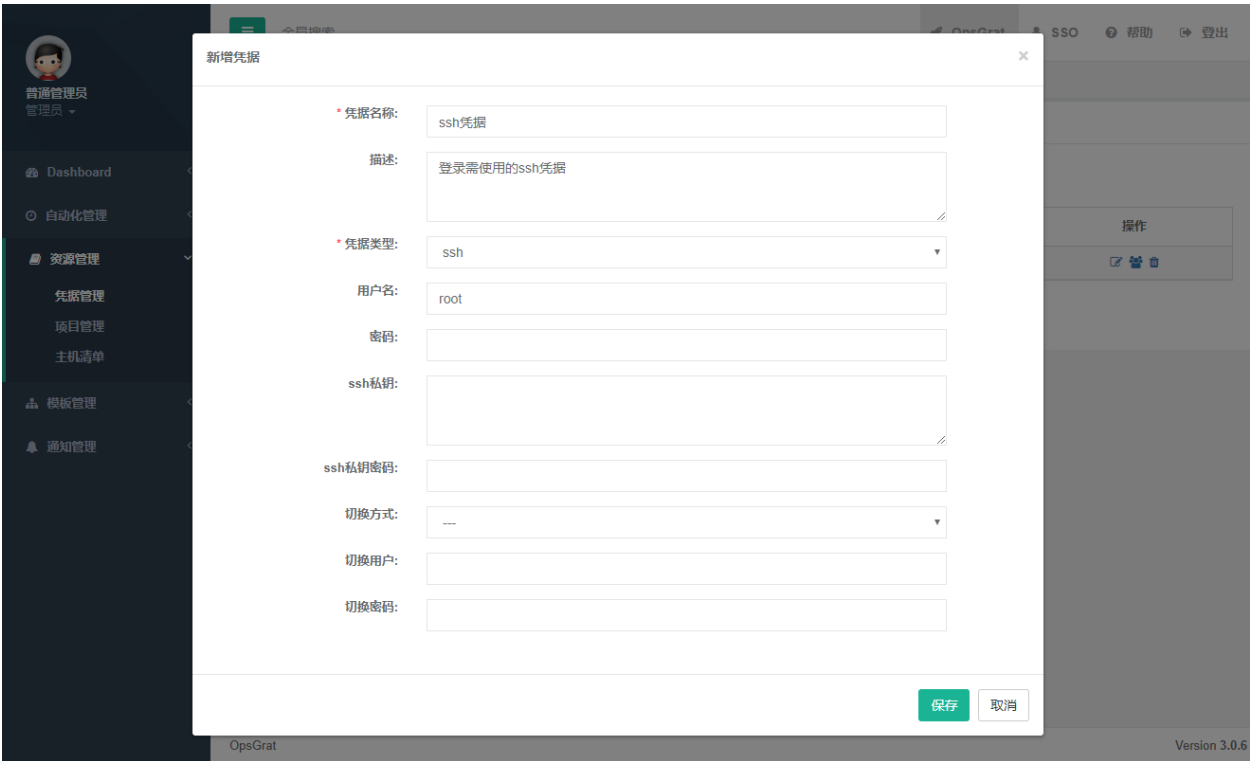
2.1.3

2.1 ssh

```
"OpsGrat"  OpsGrat
" " " "
```

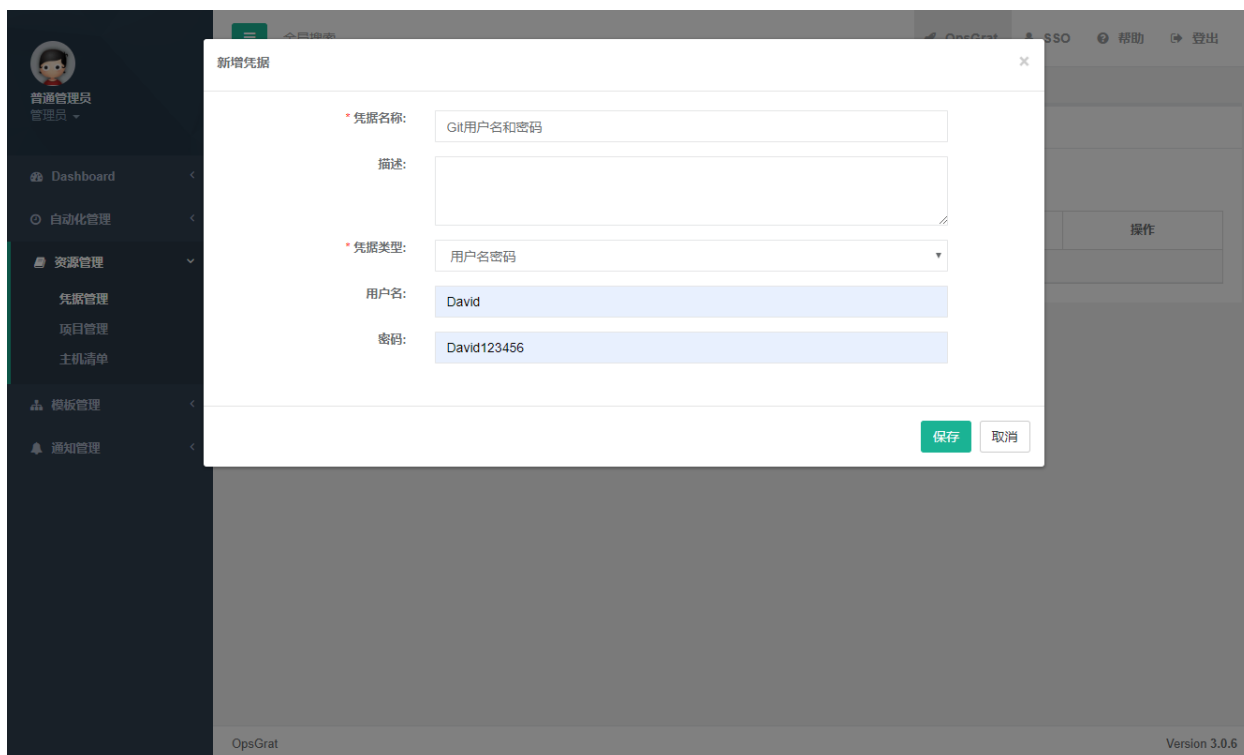


" " ssh

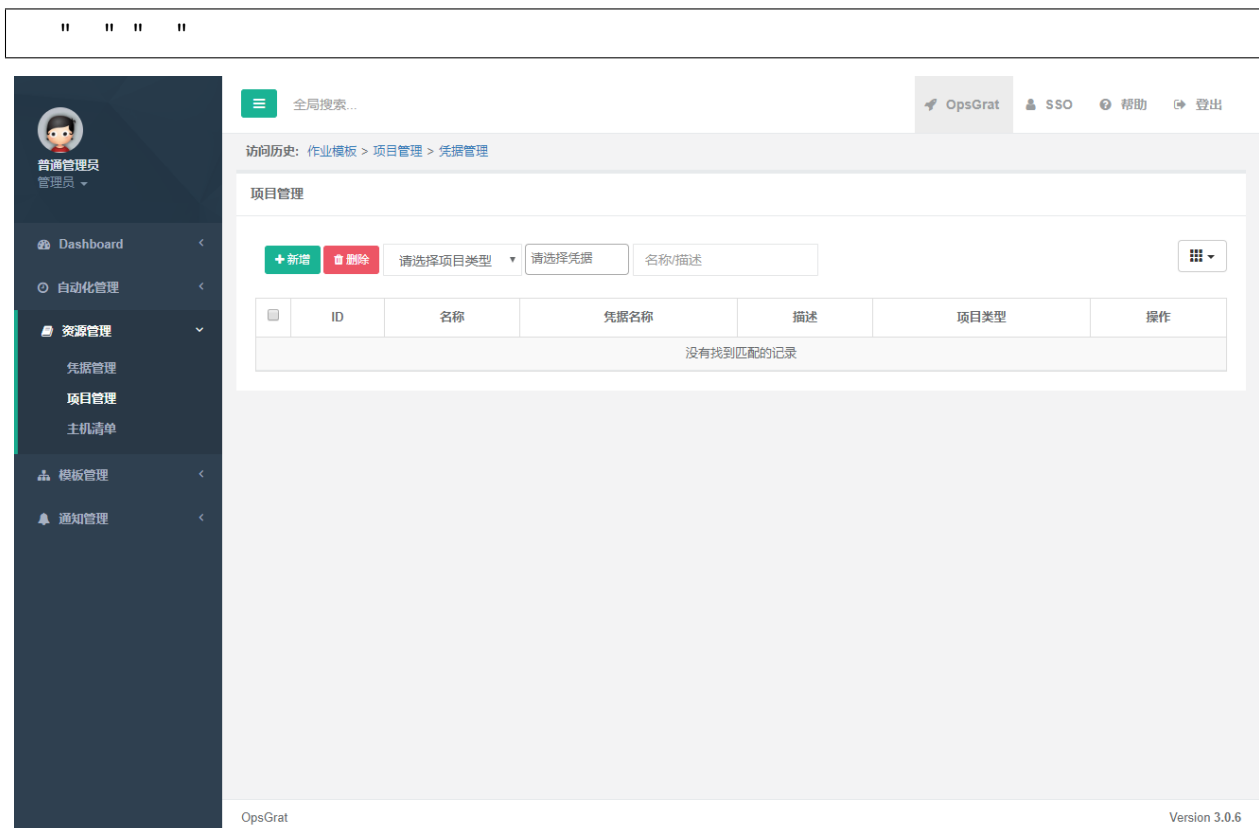


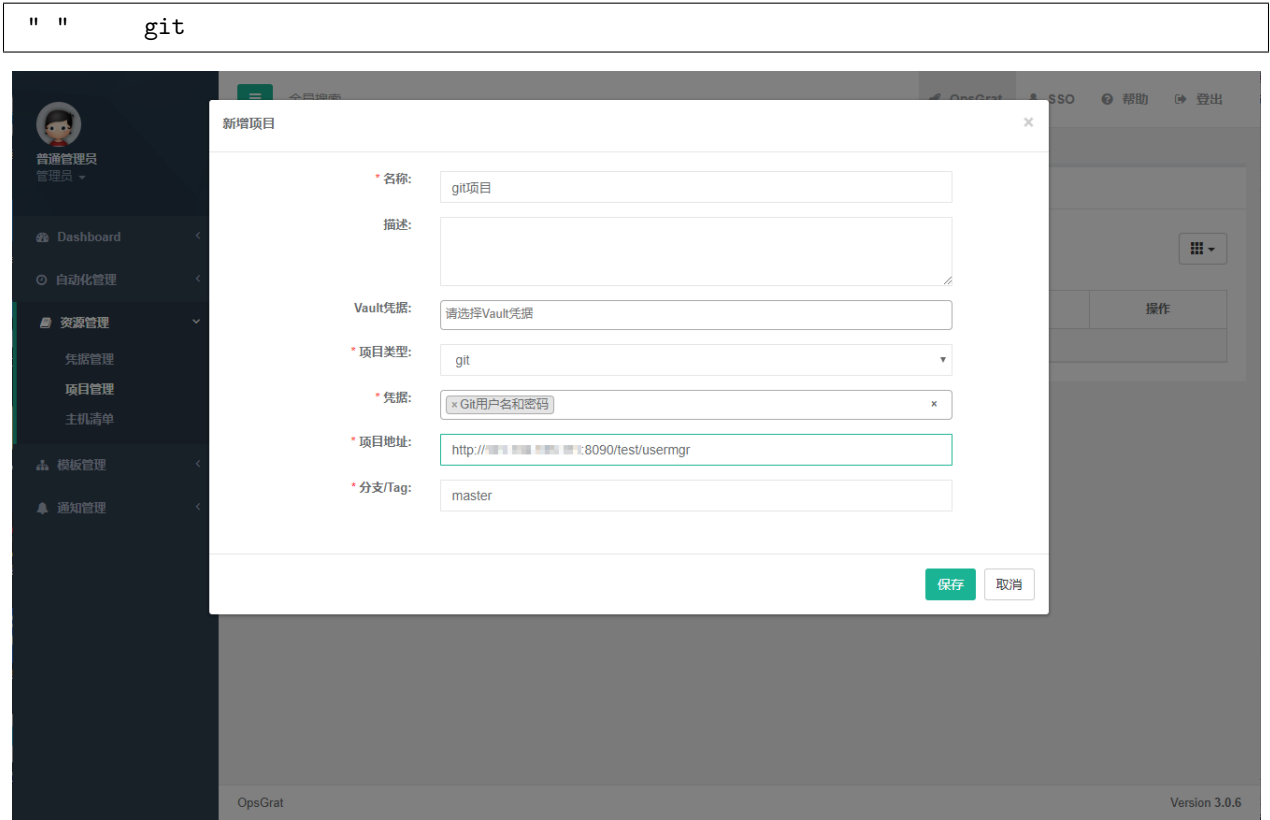
2.2 git

" " " " git



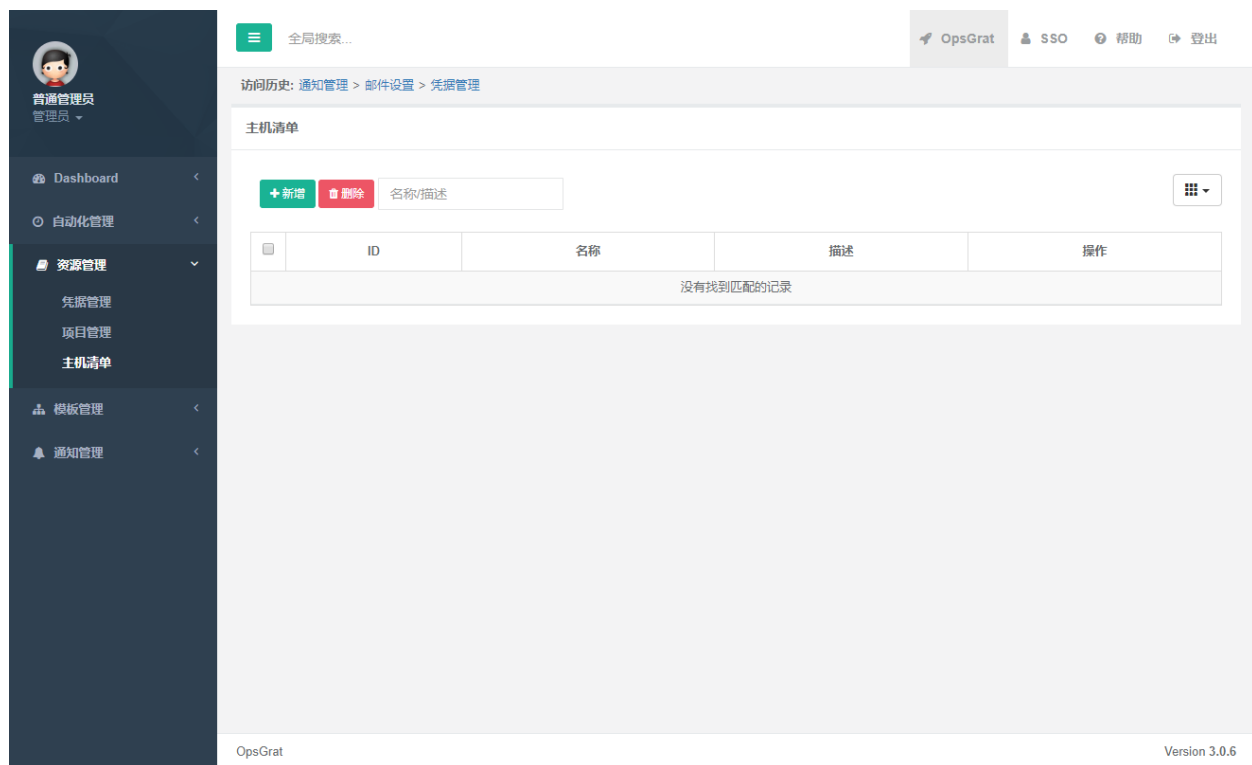
2.3





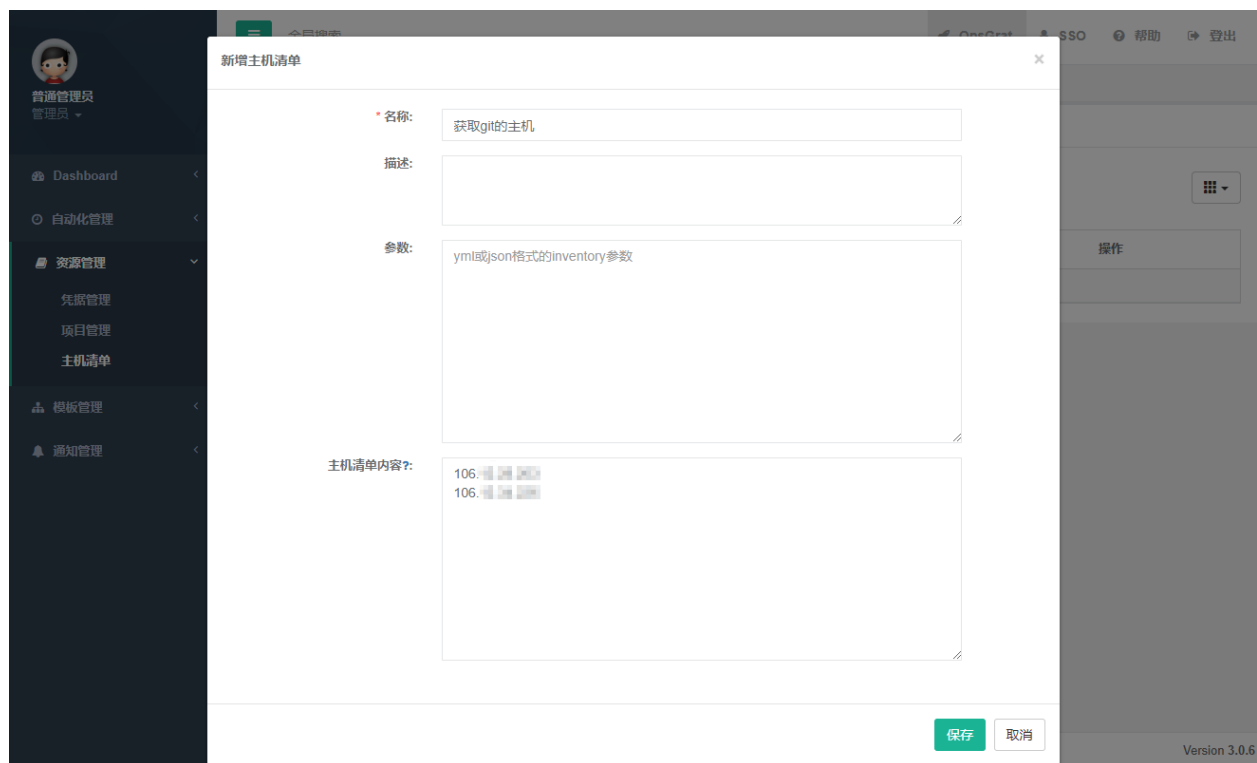
2.4

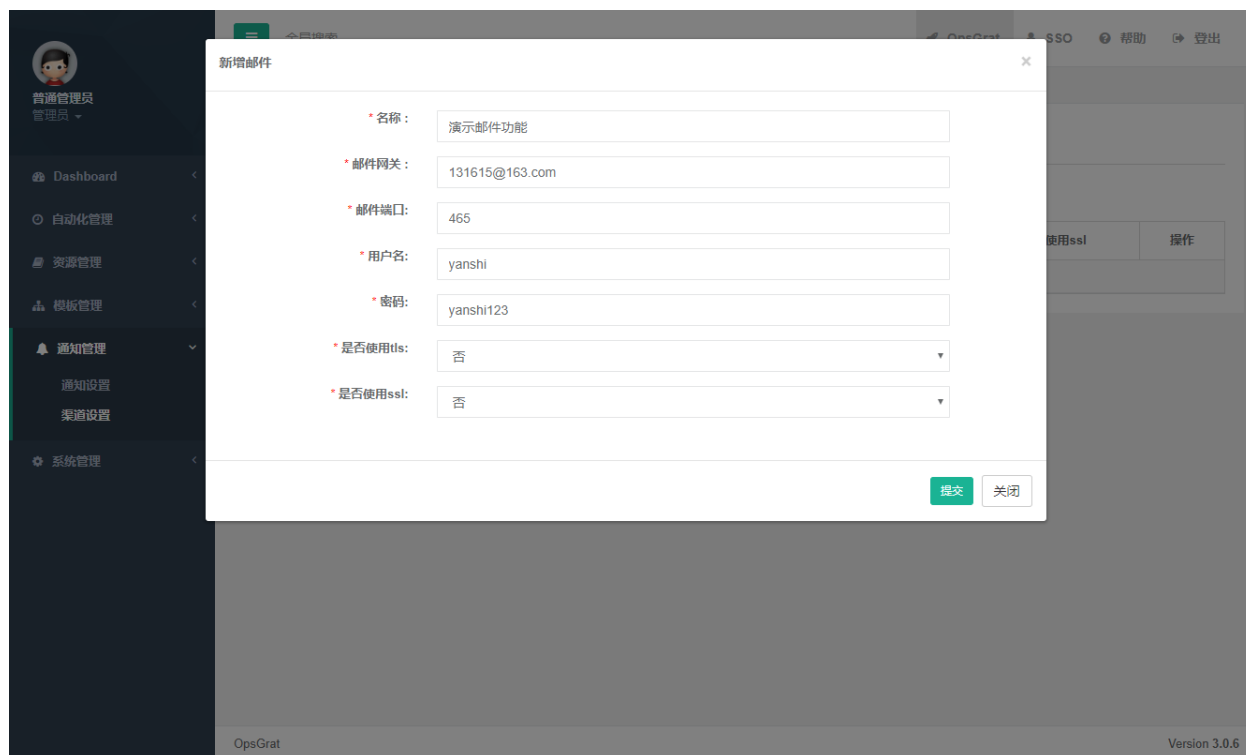




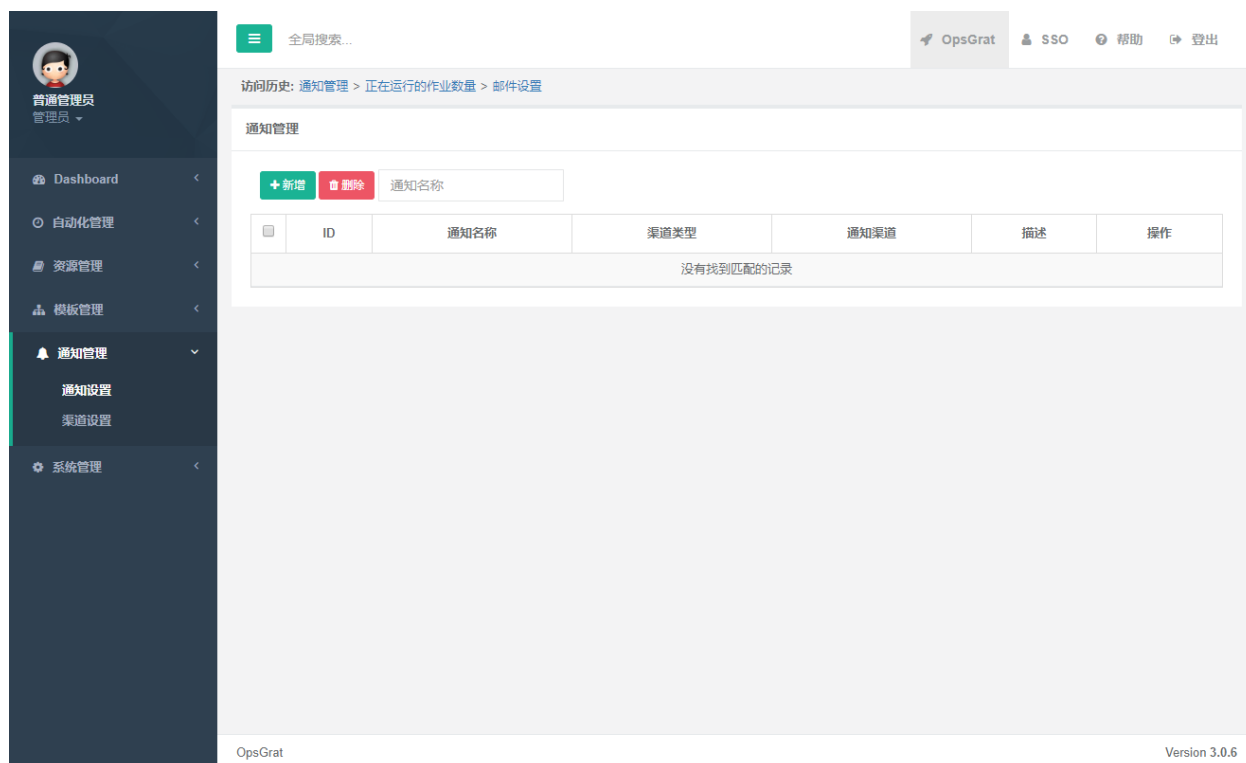
" "

ip

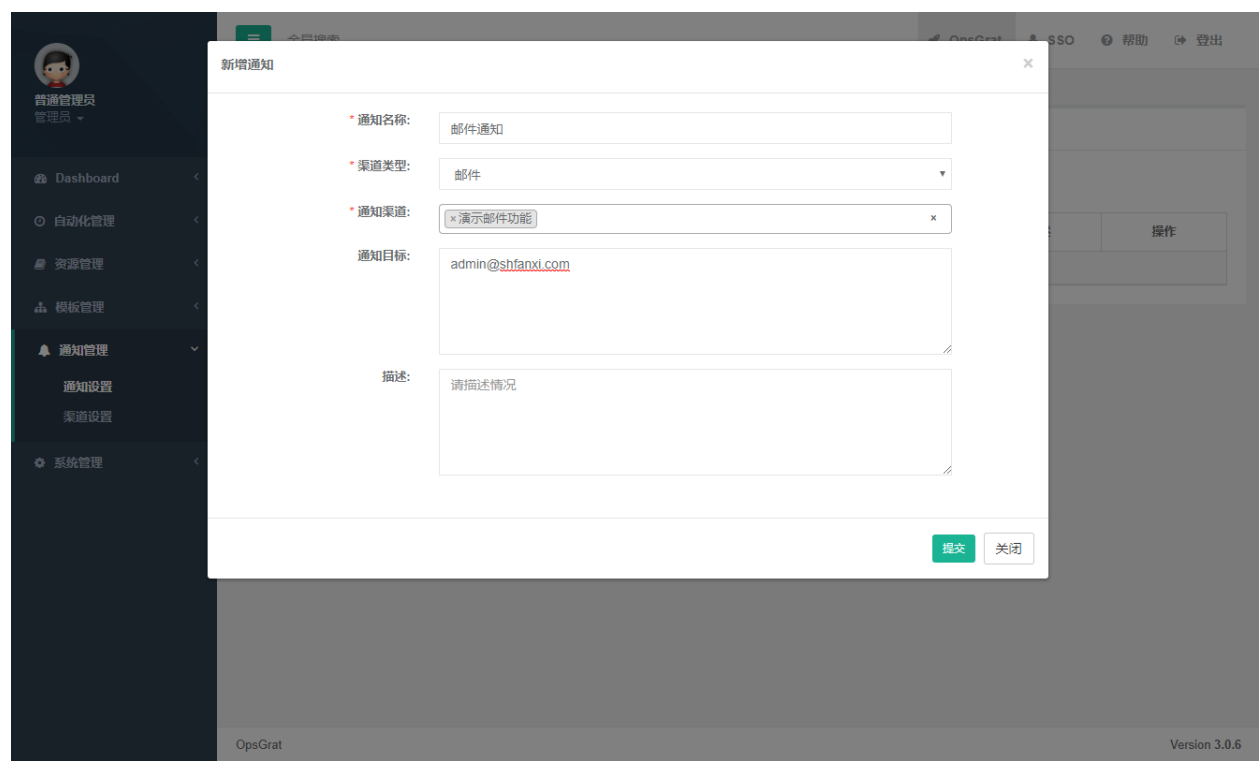




3.2



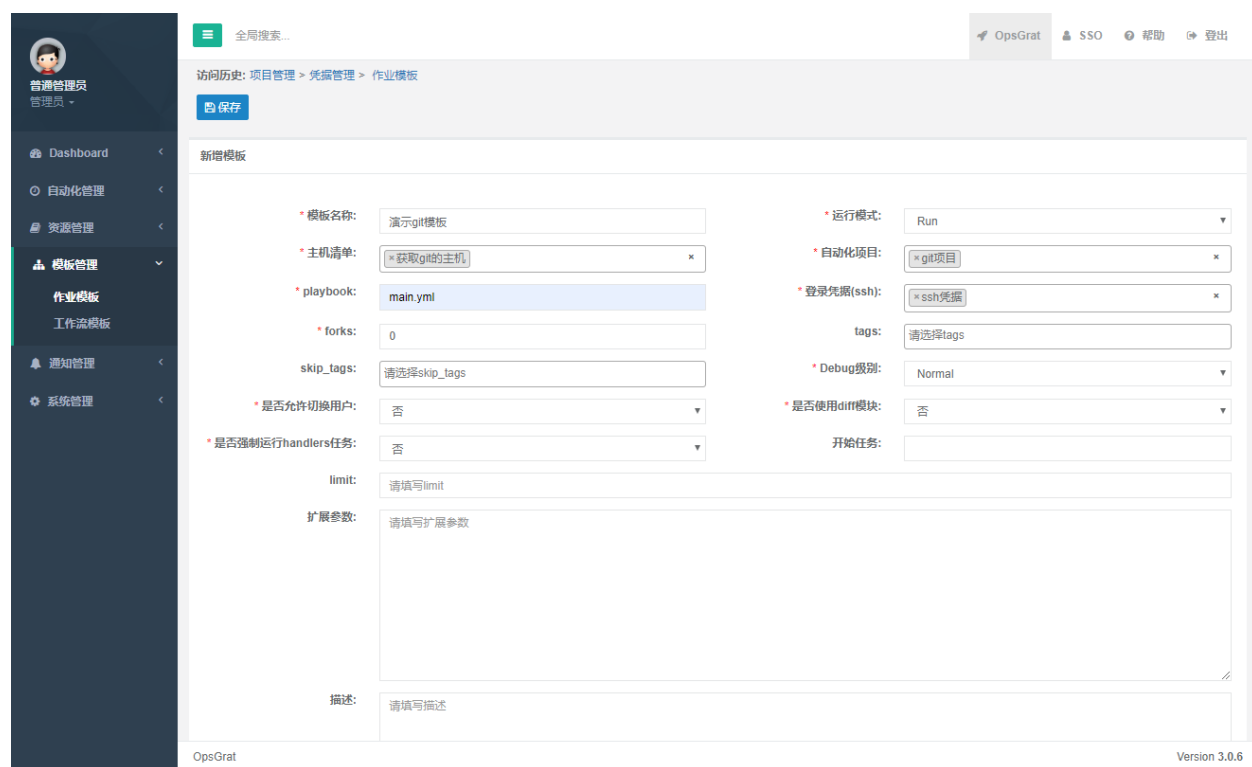
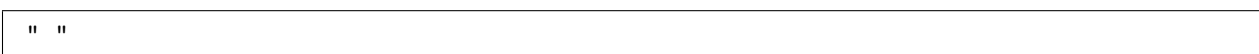
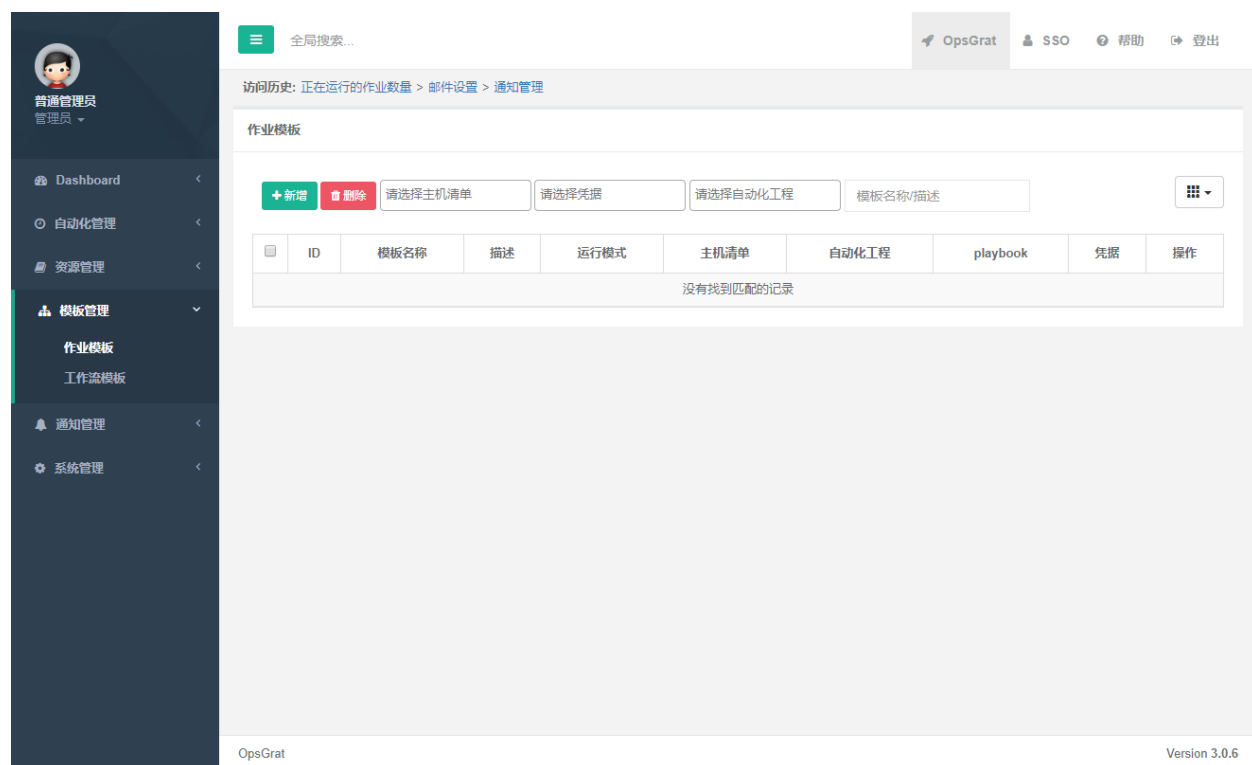
“ ”



2.1.5

4.1

“ ” “ ”



main.yml

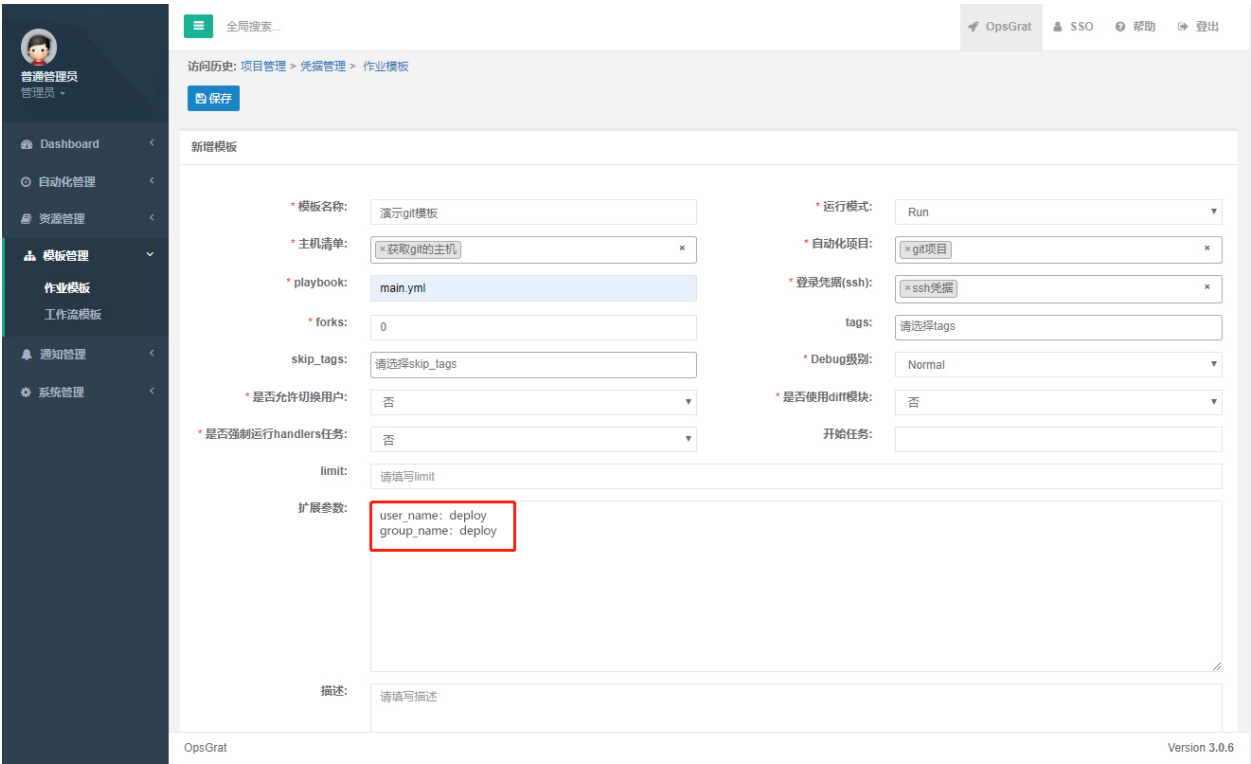
```
---
#
- hosts: all
  tasks:
    - name: Create group
      group:
        name: "{{ group_name }}"
        state: present

    - name: Create user
      user:
        name: "{{ user_name }}"
        groups: "{{ group_name }}"
        state: present

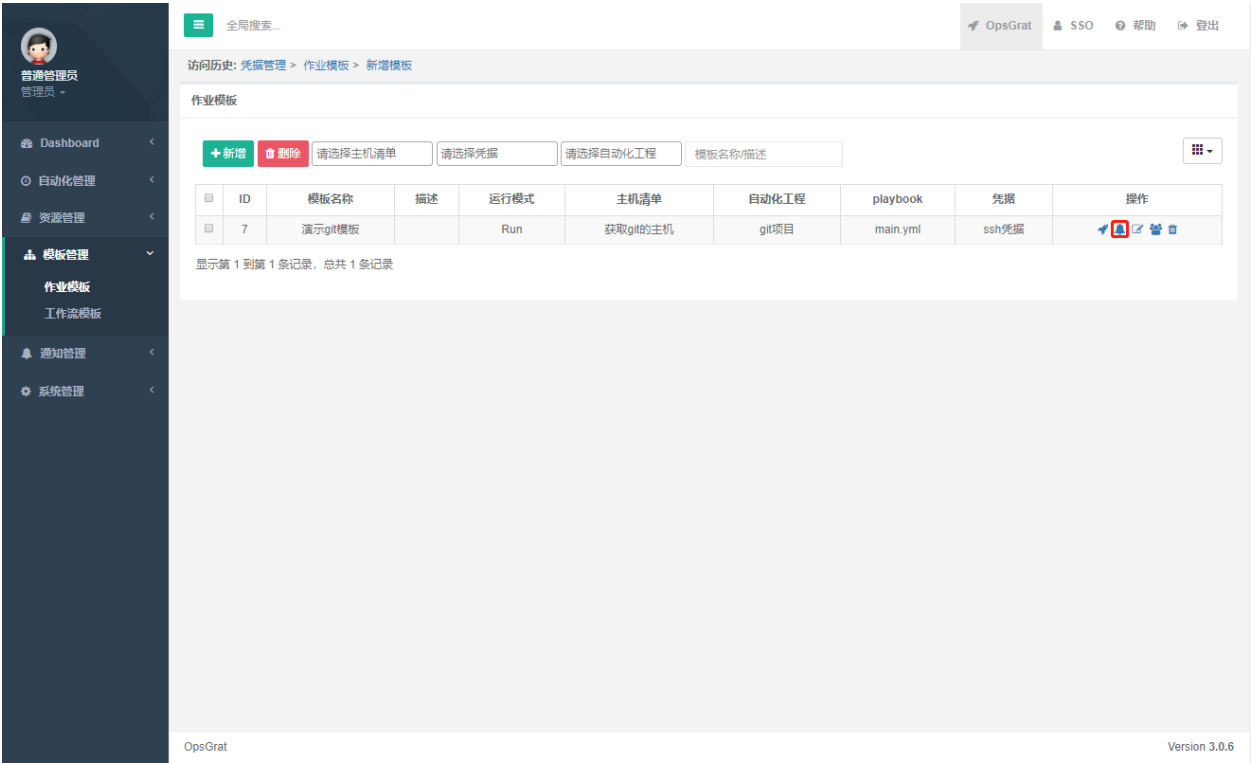
    - name: Create .ssh
      file:
        path: "/home/{{ user_name }}/.ssh"
        owner: "{{ user_name }}"
        group: "{{ group_name }}"
        mode: 0700
        state: directory

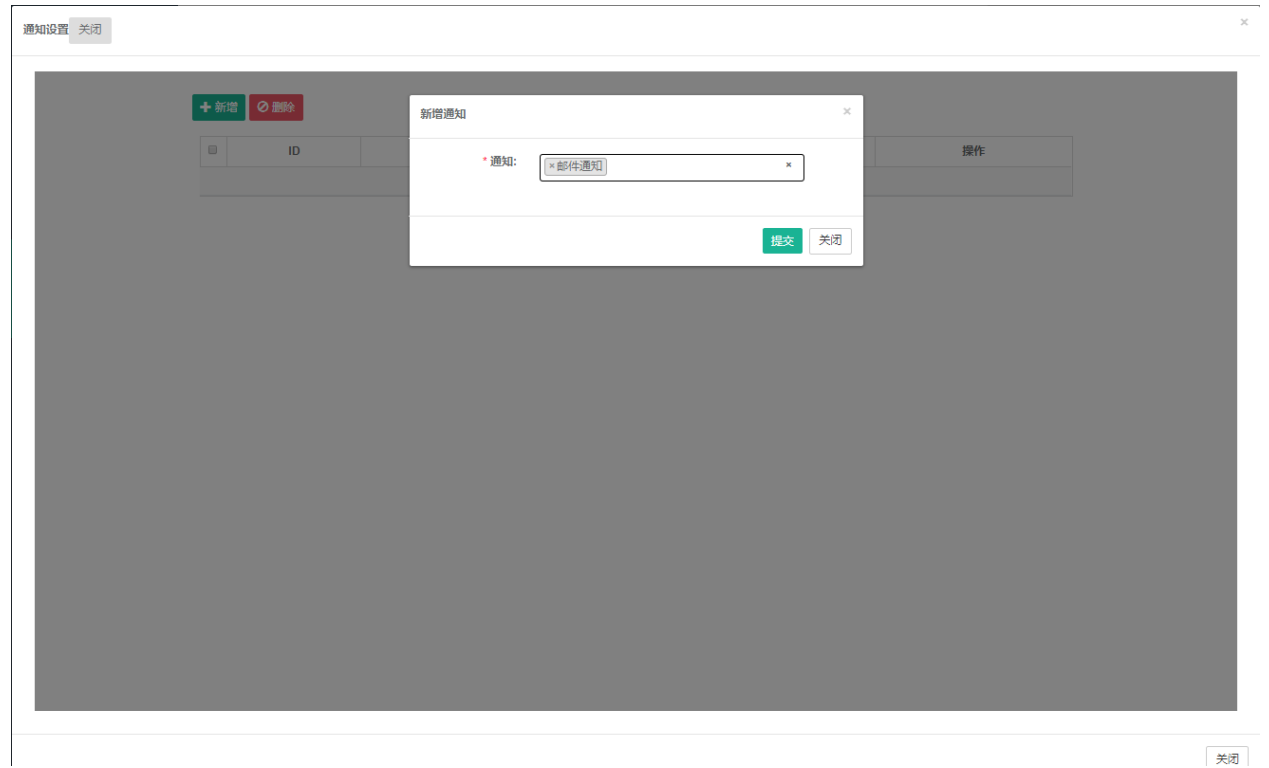
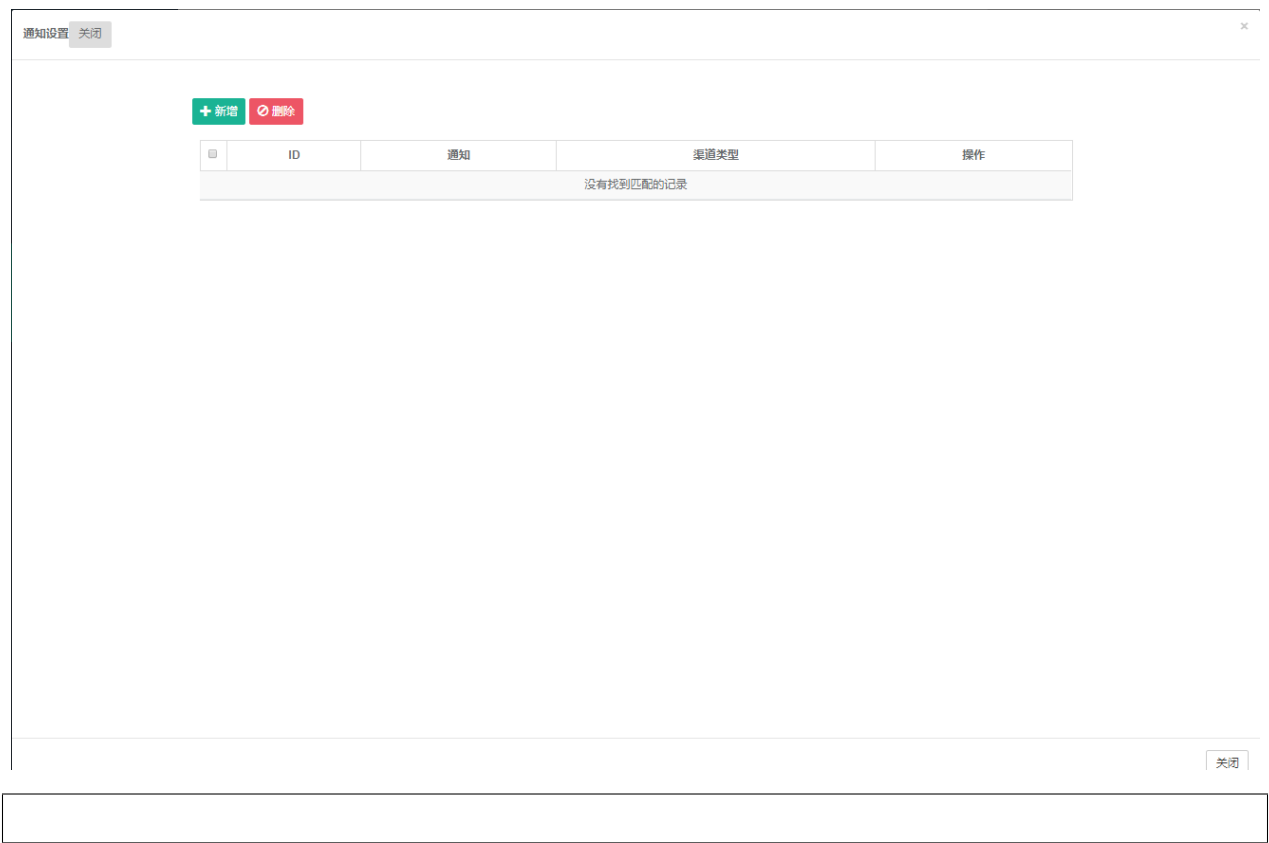
    - name: Deploy authorized_keys
      copy:
        src: authorized_keys
        dest: "/home/{{ user_name }}/.ssh/authorized_keys"
        owner: "{{ user_name }}"
        group: "{{ group_name }}"
        mode: 0600
```

```
main.yml
```



4.2





4.2

全局搜索...

OpsGrat SSO 帮助 登出

访问历史: 凭据管理 > 作业模板 > 新增模板

作业模板

+ 新增 删除 请选择主机清单 请选择凭据 请选择自动化工程 模板名称/描述

ID	模板名称	描述	运行模式	主机清单	自动化工程	playbook	凭据	操作
7	演示git模板		Run	获取git的主机	git项目	main.yml	ssh凭据	   

显示第 1 到第 1 条记录, 总共 1 条记录

OpsGrat Version 3.0.6

全局搜索...

OpsGrat SSO 帮助 登出

访问历史: 正在运行的作业数量 > 项目管理 > 作业模板

作业信息

执行人: 普通管理员

模板: 演示git模板

主机清单: 获取git的主机

凭据: ssh凭据

开始时间: 2019-07-02 14:11:43

结束时间:

状态: 运行中

作业类型: 自动化作业

运行模式: run

playbook: main.yml

forks: 0

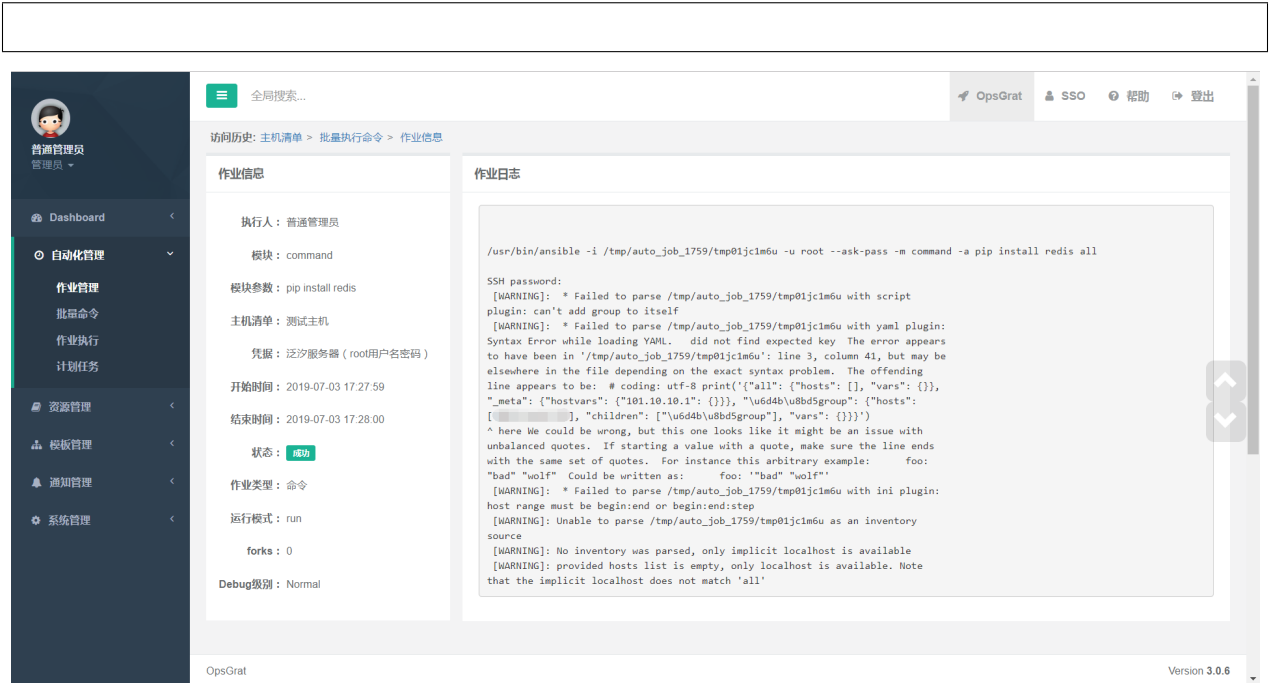
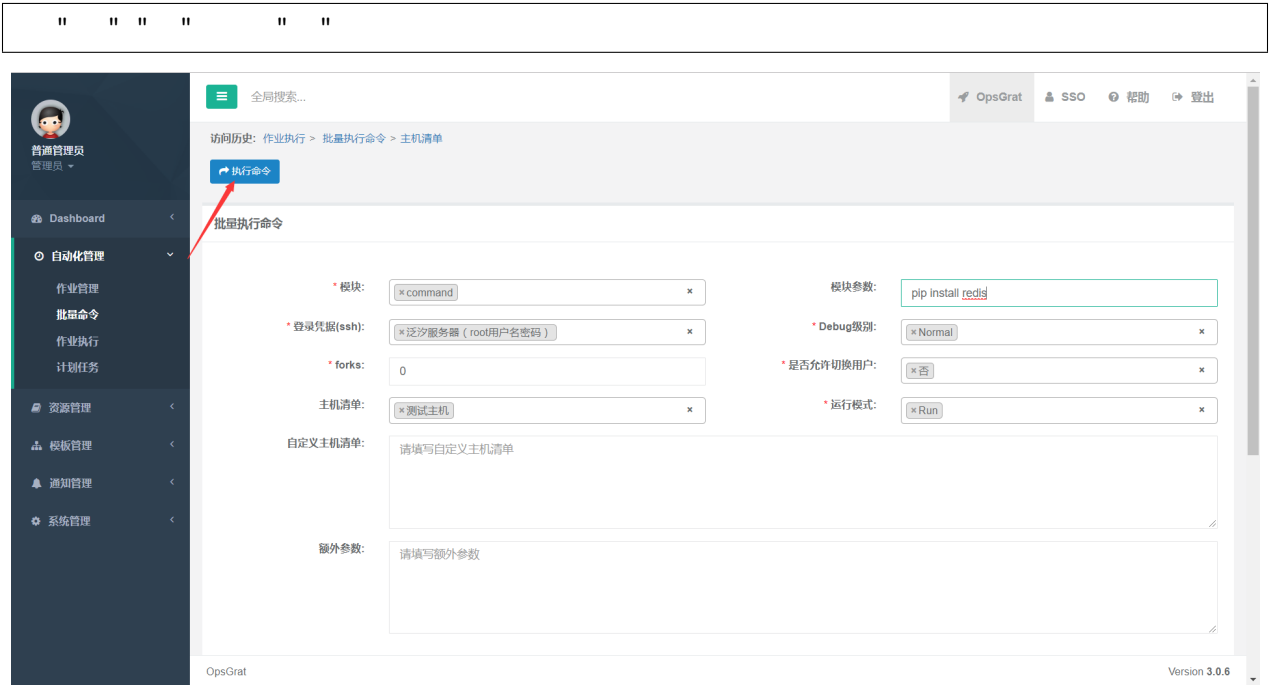
作业日志

```
/usr/bin/ansible-playbook -i /tmp/auto_job_1748/tmpu2gayj0l -u root --ask-pass -e @/tmp/aut
SSH password:
PLAY [all] *****
TASK [Gathering Facts] *****
ok: [192.168.1.100, 192.168.1.101]
ok: [192.168.1.102, 192.168.1.103]
TASK [Create group] *****
ok: [192.168.1.100, 192.168.1.101]
ok: [192.168.1.102, 192.168.1.103]
TASK [Create user] *****
changed: [192.168.1.100, 192.168.1.101]
changed: [192.168.1.102, 192.168.1.103]
TASK [Create .ssh] *****
ok: [192.168.1.100, 192.168.1.101]
ok: [192.168.1.102, 192.168.1.103]
TASK [Deploy authorized_keys] *****
```

OpsGrat Version 3.0.6

2.1.6

5.1



5.2

普通管理员
管理员

Dashboard

自动化管理

资源管理

模板管理

通知管理

系统管理

全局搜索...

OpsGrat SSO 帮助 退出

访问历史: 批量执行命令 > 作业管理 > 作业信息

作业管理

删除

请选择模板

请选择主机清单

请选择凭据

请选择计划任务

请选择作业类型

请选择状态

	ID	模版	作业类型	执行人	主机清单	开始时间	完成时间	状态	操作
-	1704	-	命令	超级管理员	pip	2019-06-26 15:49:34	2019-06-26 15:49:39	成功	
-	1703	-	命令	超级管理员	百度云和腾讯云主机	2019-06-26 15:37:32	2019-06-26 15:37:42	失败	
+	1702	workflow	工作流	普通管理员	-	2019-06-26 14:43:23	2019-06-26 14:43:23	成功	
-	1699	job	自动化作业	超级管理员	测试svn	2019-06-26 09:10:31	2019-06-26 09:10:31	失败	
-	423	-	自动化作业	超级管理员	测试svn	2019-06-25 17:14:02	2019-06-25 17:14:53	失败	
-	422	-	命令	超级管理员	测试svn	2019-06-25 16:50:43	2019-06-25 16:50:46	成功	
+	419	test workflow	工作流	超级管理员	-	2019-06-25 14:57:30	2019-06-25 14:58:07	失败	
-	418	-	自动化作业	普通管理员	百度云和腾讯云主机	2019-06-25 14:33:50	2019-06-25 14:34:14	成功	
-	417	-	自动化作业	普通管理员	百度云和腾讯云主机	2019-06-25 14:32:25	2019-06-25 14:32:45	失败	
-	415	测试SVN	自动化作业	fly yao	测试svn	2019-06-24 14:59:54	2019-06-24 15:00:53	成功	
-	414	测试SVN	自动化作业	fly yao	测试svn	2019-06-24 14:55:51	2019-06-24 14:55:51	失败	
-	413	vpn测试获取自动化项目	自动化作业	超级管理员	David_vpn获取项目测试	2019-06-24 14:41:02	2019-06-24 14:41:03	失败	
-	412	测试SVN	自动化作业	fly yao	百度云和腾讯云主机	2019-06-24 14:33:25	2019-06-24 14:33:25	失败	
-	411	vpn测试获取自动化项目	自动化作业	超级管理员	David_vpn获取项目测试	2019-06-24 09:47:35	2019-06-24 09:48:54	成功	

OpsGrat Version 3.0.6

普通管理员
管理员

Dashboard

自动化管理

资源管理

模板管理

通知管理

系统管理

全局搜索...

OpsGrat SSO 帮助 退出

访问历史: 批量执行命令 > 作业信息 > 作业管理

作业信息

执行人: 超级管理员

模块: command

模块参数: pip install redis

主机清单: pip

凭据: pip

开始时间: 2019-06-26 15:49:34

结束时间: 2019-06-26 15:49:39

状态: 成功

作业类型: 命令

运行模式: run

forks: 0

Debug级别: Normal

作业日志

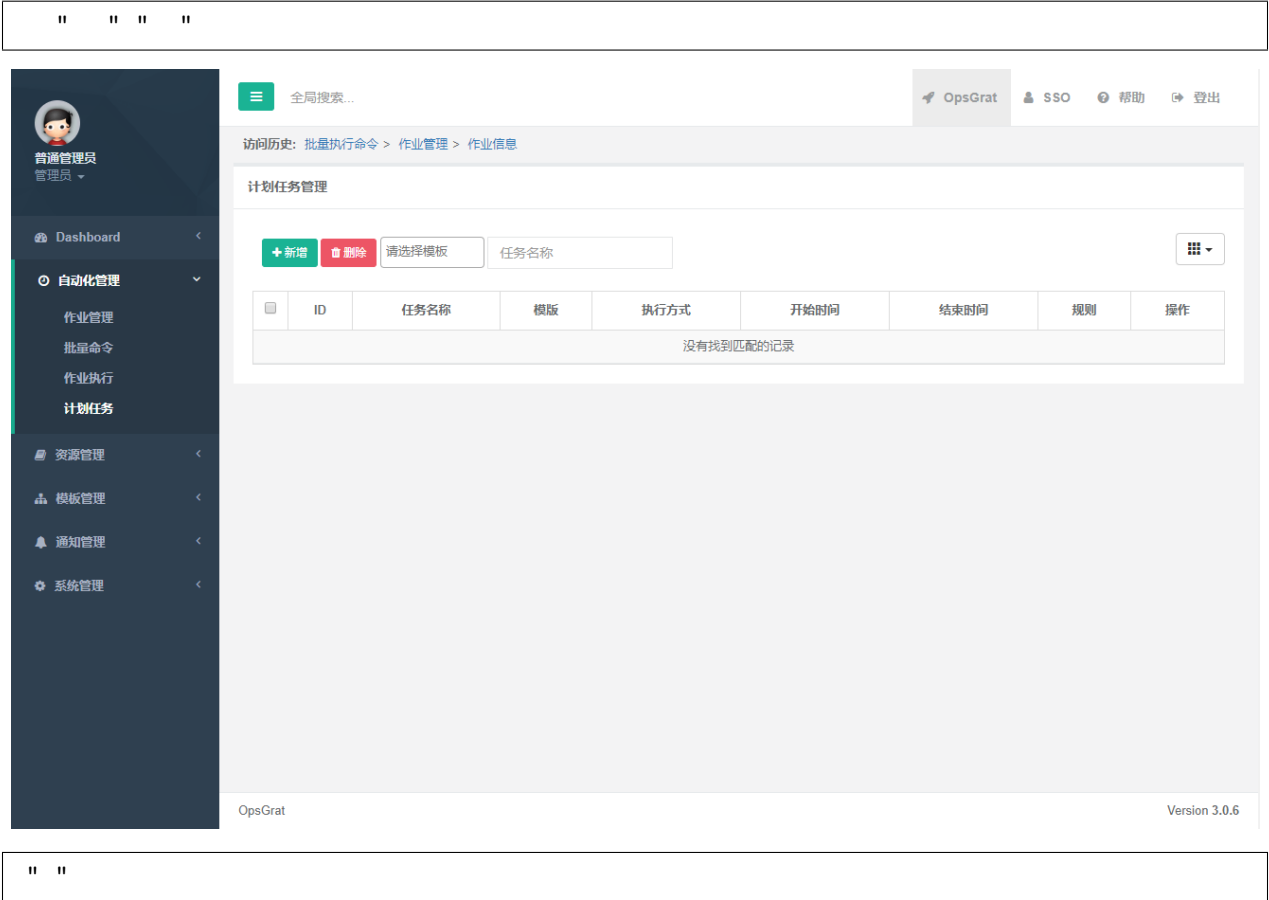
```

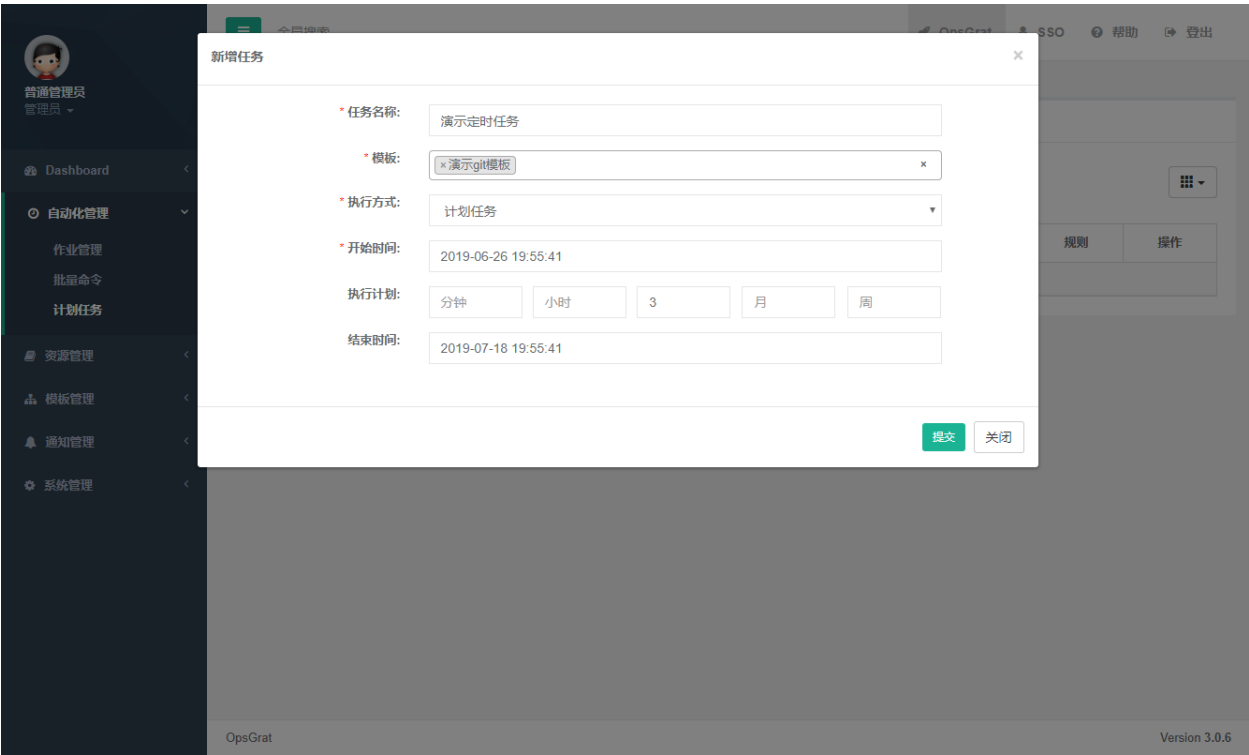
/usr/bin/ansible -i /tmp/auto_job_1704/tmp32ff8wky -u root --ask-pass -m command -a pip install redis al
SSH password:
[CHANGED] | rc=0 >>
Looking in indexes: http://mirrors.cloud.aliyuncs.com/pypi/simple/
Collecting redis
  Downloading http://mirrors.cloud.aliyuncs.com/pypi/packages/ac/a7/cff10cc5f1180834a3ed564d148fb4329c9e
Installing collected packages: redis
Successfully installed redis-3.2.1DEPRECATION: Python 2.7 will reach the end of its life on January 1st,
You are using pip version 19.0.2, however version 19.1.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.

```

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5.3



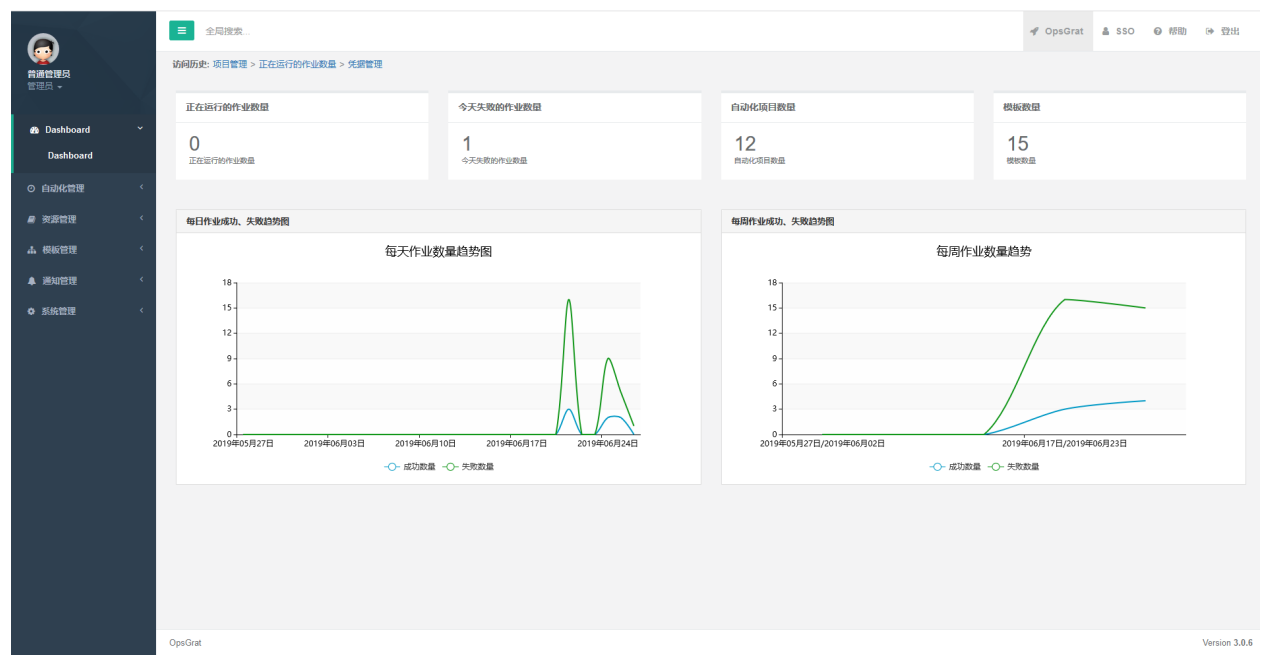


2.2 Dashboard

2.2.1

1.1

```
Opsgrat      "Dashboard" "Dashboard"      ,
```



2.3

2.3.1



普通管理员

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退出

访问历史: 作业管理 > 作业信息 > 正在运行的作业数量

作业管理

删除

请选择模板

请选择主机清单

请选择凭据

请选择计划任务

请选择作业类型

请选择状态

	ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
-	1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:06	成功	
-	1749	-	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-03 13:11:50	2019-07-03 13:13:49	失败	
-	1748	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:11:43	2019-07-02 14:11:55	成功	
-	1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:04	失败	
-	1746	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:08:02	2019-07-02 14:10:09	失败	
-	1745	创建目录&文件	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器	2019-07-02 10:15:51	2019-07-02 10:16:09	成功	
+	1742	workflow	工作流	普通管理员	-	-	2019-07-02 10:13:27	2019-07-02 10:14:00	失败	
+	1740	workflow	工作流	普通管理员	-	-	2019-07-02 10:12:31	2019-07-02 10:12:32	失败	

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访问历史: 作业管理 > 作业信息 > 正在运行的作业数量

作业管理

删除 修改密码模板

请选择主机清单

请选择凭据

请选择计划任务

请选择作业类型

请选择状态

	ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
-	1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:04	失败	查看 刷新 删除

显示第 1 到第 1 条记录, 总共 1 条记录

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访问历史: 作业管理 > 作业信息 > 正在运行的作业数量

作业管理

删除 请选择模板 阿里云主机

请选择凭据

请选择计划任务

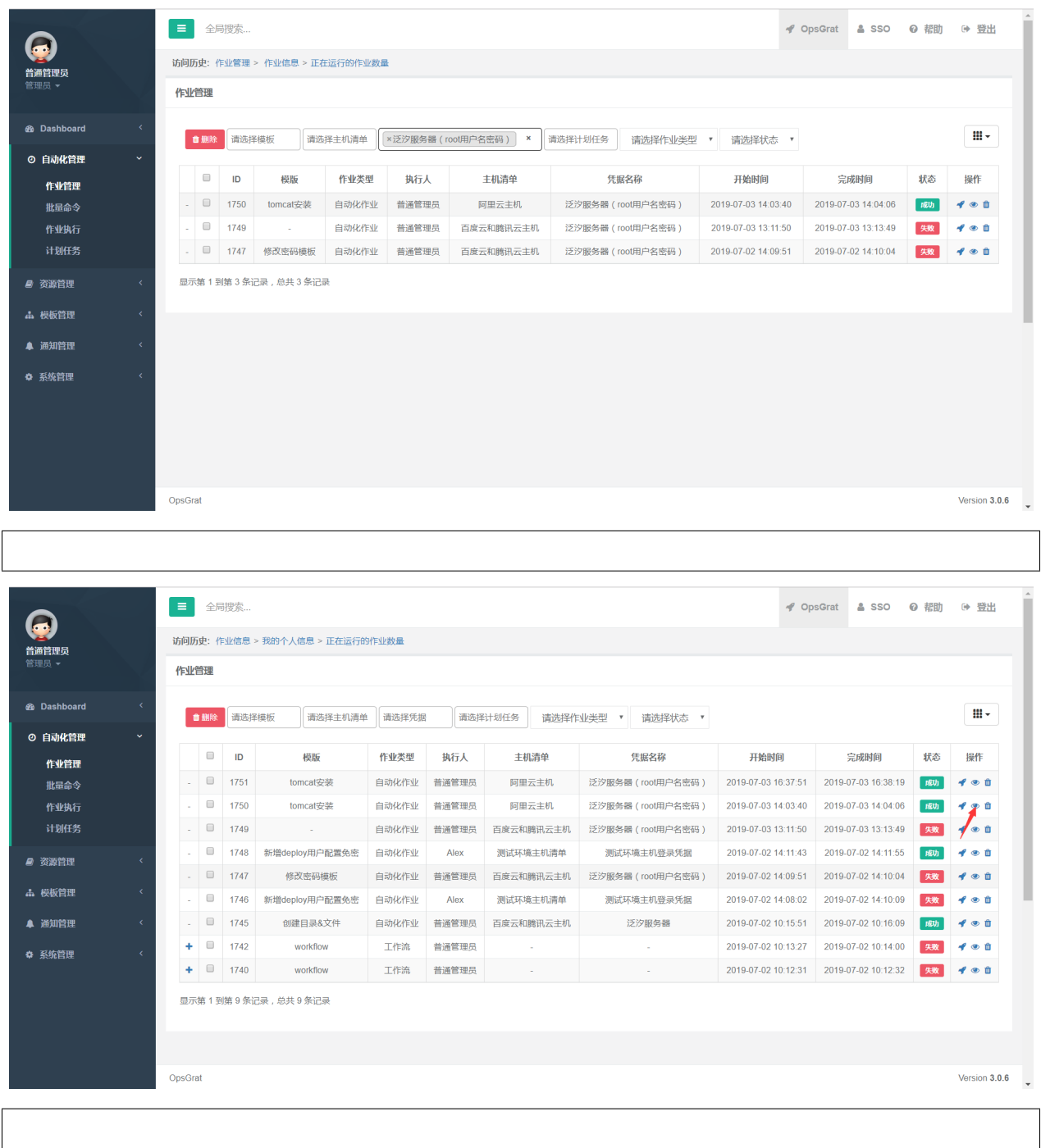
请选择作业类型

请选择状态

	ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
-	1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:06	成功	查看 刷新 删除

显示第 1 到第 1 条记录, 总共 1 条记录

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OpsGrat SSO 帮助 退出

访问历史: 正在运行的作业数量 > 作业管理 > 作业信息

作业信息

执行人: 普通管理员
模板: tomcat安装
主机清单: 阿里云主机
凭据: 泛汐服务器 (root用户名密码)
开始时间: 2019-07-03 14:03:40
结束时间: 2019-07-03 14:04:06
状态: 成功
作业类型: 自动化作业
运行模式: run
playbook: site.yml
forks: 0
tags:
skip tags:
Debug级别: Normal

作业日志

```
/usr/bin/ansible-playbook -i /tmp/auto_job_1750/tmpb7ykt8k1 -u root --ask-pass -e @/tmp/auto_job_1750/tmpcpi857n9 site.yml

SSH password:

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [ ]

TASK [tomcat : Install Java] *****
ok: [ ] => (item={u'package': u'java-1.8.0-openjdk'})

TASK [tomcat : Check if tomcat is already installed] *****
ok: [ ]

TASK [tomcat : Create group tomcat] *****
ok: [ ]

TASK [tomcat : Create user tomcat] *****
ok: [ ]

TASK [tomcat : Create temp directory] *****
skipping: [ ]

TASK [tomcat : Download apache-tomcat-8.5.42.tar.gz] *****
skipping: [ ]
```

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访问历史: 作业信息 > 我的个人信息 > 正在运行的作业数量

作业管理

删除 请选择模板 请选择主机清单 请选择凭据 请选择计划任务 请选择作业类型 请选择状态

	ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
-	1751	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 16:37:51	2019-07-03 16:38:19	成功	🔍 🔍 🔍
-	1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:06	成功	🔍 🔍 🔍
-	1749	-	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-03 13:11:50	2019-07-03 13:13:49	失败	🔍 🔍 🔍
-	1748	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:11:43	2019-07-02 14:11:55	成功	🔍 🔍 🔍
-	1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:04	失败	🔍 🔍 🔍
-	1746	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:08:02	2019-07-02 14:10:09	失败	🔍 🔍 🔍
-	1745	创建目录&文件	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器	2019-07-02 10:15:51	2019-07-02 10:16:09	成功	🔍 🔍 🔍
+	1742	workflow	工作流	普通管理员	-	-	2019-07-02 10:13:27	2019-07-02 10:14:00	失败	🔍 🔍 🔍
+	1740	workflow	工作流	普通管理员	-	-	2019-07-02 10:12:31	2019-07-02 10:12:32	失败	🔍 🔍 🔍

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Chapter 2.

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访问历史: 正在运行的作业数量 > 作业管理 > 作业信息

作业信息

执行人: 普通管理员

模板: tomcat安装

主机清单: 阿里云主机

凭据: 泛汐服务器 (root用户名密码)

开始时间: 2019-07-03 16:37:51

结束时间: 2019-07-03 16:38:19

状态: 成功

作业类型: 自动化作业

运行模式: run

playbook: site.yml

forks: 0

tags:

skip tags:

Debug级别: Normal

作业日志

```
/usr/bin/ansible-playbook -i /tmp/auto_job_1751/tmp6s50mj2j -u root --ask-pass -e @/tmp/auto_job_1751/tmp3ayp_dpk site.yml

SSH password:

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [ ]

TASK [tomcat : Install Java] *****
ok: [ ] => (item={u'package': u'java-1.8.0-openjdk'})

TASK [tomcat : Check if tomcat is already installed] *****
ok: [ ]

TASK [tomcat : Create group tomcat] *****
ok: [ ]

TASK [tomcat : Create user tomcat] *****
ok: [ ]

TASK [tomcat : Create temp directory] *****
skipping: [ ]

TASK [tomcat : Download apache-tomcat-8.5.42.tar.gz] *****
skipping: [ ]
```

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访问历史: 作业信息 > 我的个人信息 > 正在运行的作业数量

作业管理

删除 请选择模板 请选择主机清单 请选择凭据 请选择计划任务 请选择作业类型 请选择状态

ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
1751	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 16:37:51	2019-07-03 16:38:19	成功	🔍 📄 🗑️
1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:06	成功	🔍 📄 🗑️
1749	-	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-03 13:11:50	2019-07-03 13:13:49	失败	🔍 📄 🗑️
1748	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:11:43	2019-07-02 14:11:55	成功	🔍 📄 🗑️
1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:04	失败	🔍 📄 🗑️
1746	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:08:02	2019-07-02 14:10:09	失败	🔍 📄 🗑️
1745	创建目录&文件	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器	2019-07-02 10:15:51	2019-07-02 10:16:09	成功	🔍 📄 🗑️
1742	workflow	工作流	普通管理员	-	-	2019-07-02 10:13:27	2019-07-02 10:14:00	失败	🔍 📄 🗑️
1740	workflow	工作流	普通管理员	-	-	2019-07-02 10:12:31	2019-07-02 10:12:32	失败	🔍 📄 🗑️

显示第 1 到第 9 条记录, 总共 9 条记录

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访问历史: 作业信息 > 我的个人信息 > 正在运行的作业数量

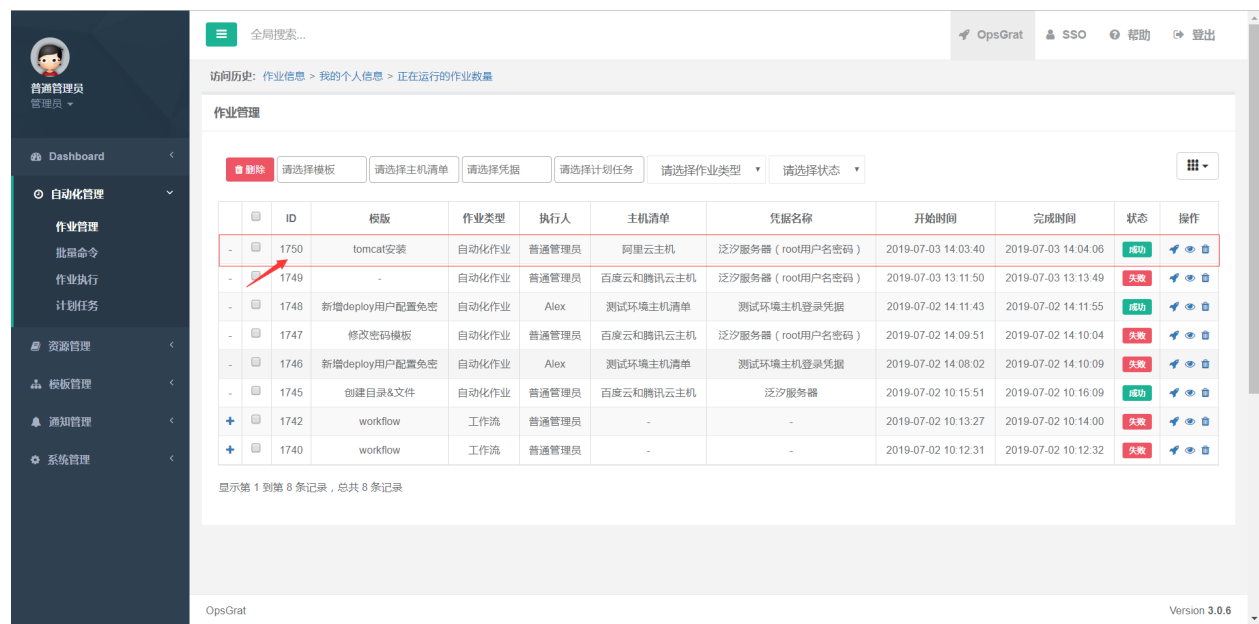
作业管理

删除 请选择模板 请选择主机清单 请选择凭据 请选择计划任务 请选择作业类型 请选择状态

ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
1751	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 16:37:51	2019-07-03 16:38:19	成功	🔍 📄 🗑️
1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:06	成功	🔍 📄 🗑️
1749	-	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-03 13:11:50	2019-07-03 13:13:49	失败	🔍 📄 🗑️
1748	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:11:43	2019-07-02 14:11:55	成功	🔍 📄 🗑️
1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:04	失败	🔍 📄 🗑️
1746	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:08:02	2019-07-02 14:10:09	失败	🔍 📄 🗑️
1745	创建目录&文件	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器	2019-07-02 10:15:51	2019-07-02 10:16:09	成功	🔍 📄 🗑️
1742	workflow	工作流	普通管理员	-	-	2019-07-02 10:13:27	2019-07-02 10:14:00	失败	🔍 📄 🗑️
1740	workflow	工作流	普通管理员	-	-	2019-07-02 10:12:31	2019-07-02 10:12:32	失败	🔍 📄 🗑️

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访问历史: 作业信息 > 我的个人信息 > 正在运行的作业数量

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删除

请选择模板

请选择主机清单

请选择凭据

请选择计划任务

请选择作业类型

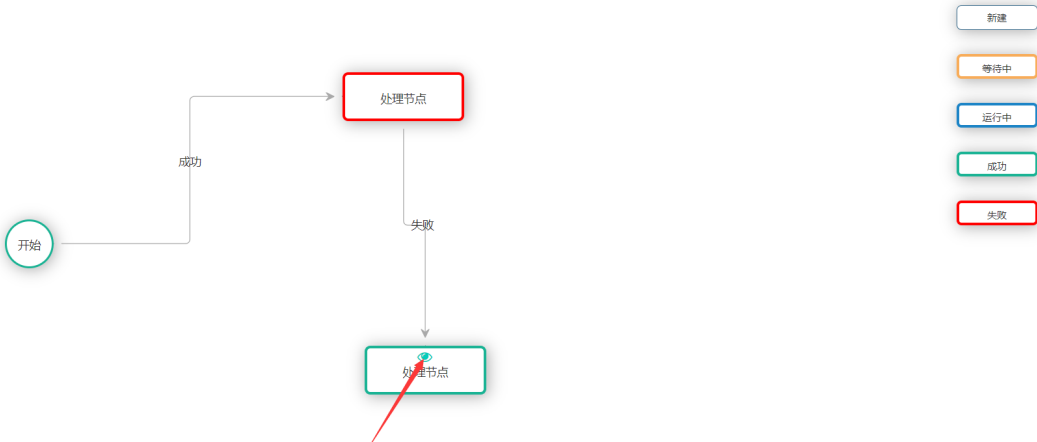
请选择状态

	ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间
-	1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:00
-	1749	-	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-03 13:11:50	2019-07-03 13:13:00
-	1748	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:11:43	2019-07-02 14:11:50
-	1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:00
-	1746	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:08:02	2019-07-02 14:10:00
-	1745	创建目录&文件	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器	2019-07-02 10:15:51	2019-07-02 10:16:00
+	1742	workflow	工作流	普通管理员	-	-	2019-07-02 10:13:27	2019-07-02 10:14:00
+	1740	workflow	工作流	普通管理员	-	-	2019-07-02 10:12:31	2019-07-02 10:12:32

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OpsGrat SSO 帮助 退出

访问历史: 工作流模板 > 作业管理 > 作业信息

作业信息

执行人: 普通管理员
模板: 创建test用户
主机清单: 百度云和腾讯云主机
凭据: 泛汐服务器 (root用户名密码)
开始时间: 2019-07-03 16:56:38
结束时间: 2019-07-03 16:57:02
状态: 成功
作业类型: 自动化作业
运行模式: run
playbook: main.yml
forks: 0
tags:
skip tags:
Debug级别: Normal

作业日志

```
/usr/bin/ansible-playbook -i /tmp/auto_job_1755/tmpbbyfnxf -u root --ask-pass -e @/tmp/auto_job_1755/tmp76vshcqz main.yml

SSH password:

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [10.10.10.10]
ok: [10.10.10.11]
ok: [10.10.10.12]
ok: [10.10.10.13]
ok: [10.10.10.14]

TASK [Create group] *****
ok: [10.10.10.10]
ok: [10.10.10.11]
ok: [10.10.10.12]
ok: [10.10.10.13]
ok: [10.10.10.14]

TASK [Create user] *****
ok: [10.10.10.10]
ok: [10.10.10.11]
ok: [10.10.10.12]
ok: [10.10.10.13]
ok: [10.10.10.14]
```

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显示

	ID	模版	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
+ □	1753	workflow	工作流	普通管理员	-	-	2019-07-03 16:56:37	2019-07-03 16:57:02	失败	🔍 🔄 🗑️
- □	1752	-	自动化作业	普通管理员	华为云主机	泛汐服务器 (root用户名密码)	2019-07-03 16:44:21	2019-07-03 16:44:26	成功	🔍 🔄 🗑️
- □	1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:06	成功	🔍 🔄 🗑️
- □	1749	-	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-03 13:11:50	2019-07-03 13:13:49	失败	🔍 🔄 🗑️
- □	1748	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:11:43	2019-07-02 14:11:55	成功	🔍 🔄 🗑️
- □	1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:04	失败	🔍 🔄 🗑️
- □	1746	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:08:02	2019-07-02 14:10:09	失败	🔍 🔄 🗑️
- □	1745	创建目录&文件	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器	2019-07-02 10:15:51	2019-07-02 10:16:09	成功	🔍 🔄 🗑️
+ □	1742	workflow	工作流	普通管理员	-	-	2019-07-02 10:13:27	2019-07-02 10:14:00	失败	🔍 🔄 🗑️
+ □	1740	workflow	工作流	普通管理员	-	-	2019-07-02 10:12:31	2019-07-02 10:12:32	失败	🔍 🔄 🗑️

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	ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
-	1753	workflow	工作流	普通管理员	-	-	2019-07-03 16:56:37	2019-07-03 16:57:02	失败	🔍 👁 🗑

ID	模板	作业类型	执行人	主机清单	开始时间	完成时间	状态	操作
1755	创建test用户	自动化作业	普通管理员	百度云和腾讯云主机	2019-07-03 16:56:38	2019-07-03 16:57:02	成功	🔍 👁 🗑
1754	测试SVN	自动化作业	普通管理员	百度云和腾讯云主机	2019-07-03 16:56:37	2019-07-03 16:56:38	失败	🔍 👁 🗑

-	1752	-	自动化作业	普通管理员	华为云主机	泛汐服务器 (root用户名密码)	2019-07-03 16:44:21	2019-07-03 16:44:26	成功	🔍 👁 🗑
-	1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛汐服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:06	成功	🔍 👁 🗑
-	1749	-	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-03 13:11:50	2019-07-03 13:13:49	失败	🔍 👁 🗑
-	1748	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:11:43	2019-07-02 14:11:55	成功	🔍 👁 🗑
-	1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛汐服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:04	失败	🔍 👁 🗑

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ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
419	test workflow	工作流	超级管理员	-	-	2019-06-25 14:57:30	2019-06-25 14:58:07	失败	刷新 删除 详情
418	-	自动化作业	泛沙管理员	百度云和腾讯云主机	泛沙服务器 (root用户名密码)	2019-06-25 14:33:50	2019-06-25 14:34:14	成功	刷新 删除 详情
417	-	自动化作业	泛沙管理员	百度云和腾讯云主机	泛沙服务器 (root用户名密码)	2019-06-25 14:32:25	2019-06-25 14:32:45	失败	刷新 删除 详情
415	测试SVN	自动化作业	fly yao	测试svn	测试	2019-06-24 14:59:54	2019-06-24 15:00:53	失败	刷新 删除 详情
414	测试SVN	自动化作业	fly yao	测试svn	测试	2019-06-24 14:55:51	2019-06-24 14:55:51	失败	刷新 删除 详情
413	David对vpn测试获取自动化项目	自动化作业	超级管理员	David_vpn获取项目测试	对vpn测试获取自动化项目ssh	2019-06-24 14:41:02	2019-06-24 14:41:03	成功	刷新 删除 详情
412	测试SVN	自动化作业	fly yao	百度云和腾讯云主机	测试	2019-06-24 14:33:25	2019-06-24 14:33:25	失败	刷新 删除 详情
411	David对vpn测试获取自动化项目	自动化作业	超级管理员	David_vpn获取项目测试	对vpn测试获取自动化项目ssh	2019-06-24 09:47:35	2019-06-24 09:48:54	成功	刷新 删除 详情
410	David对vpn测试获取自动化项目	自动化作业	超级管理员	David_vpn获取项目测试	对vpn测试获取自动化项目ssh	2019-06-24 09:42:57	2019-06-24 09:43:47	失败	刷新 删除 详情
409	David对vpn测试获取自动化项目	自动化作业	超级管理员	David_vpn获取项目测试	对vpn测试获取自动化项目ssh	2019-06-24 09:41:43	2019-06-24 09:41:44	失败	刷新 删除 详情
408	David对vpn测试获取自动化项目	自动化作业	超级管理员	David_vpn获取项目测试	对vpn测试获取自动化项目ssh	2019-06-24 09:38:51	2019-06-24 09:39:42	失败	刷新 删除 详情
405	test workflow	工作流	泛沙管理员	-	-	2019-06-24 09:21:15	2019-06-24 09:21:49	失败	刷新 删除 详情
404	安装php	自动化作业	泛沙管理员	百度云和腾讯云主机	泛沙服务器 (root用户名密码)	2019-06-21 18:39:50	2019-06-21 18:40:59	成功	刷新 删除 详情
403	安装php	自动化作业	泛沙管理员	百度云和腾讯云主机	泛沙服务器 (root用户名密码)	2019-06-21 18:38:52	2019-06-21 18:38:53	失败	刷新 删除 详情
402	修改密码	自动化作业	泛沙管理员	百度云和腾讯云主机	泛沙服务器	2019-06-21 18:32:20	2019-06-21 18:32:43	成功	刷新 删除 详情

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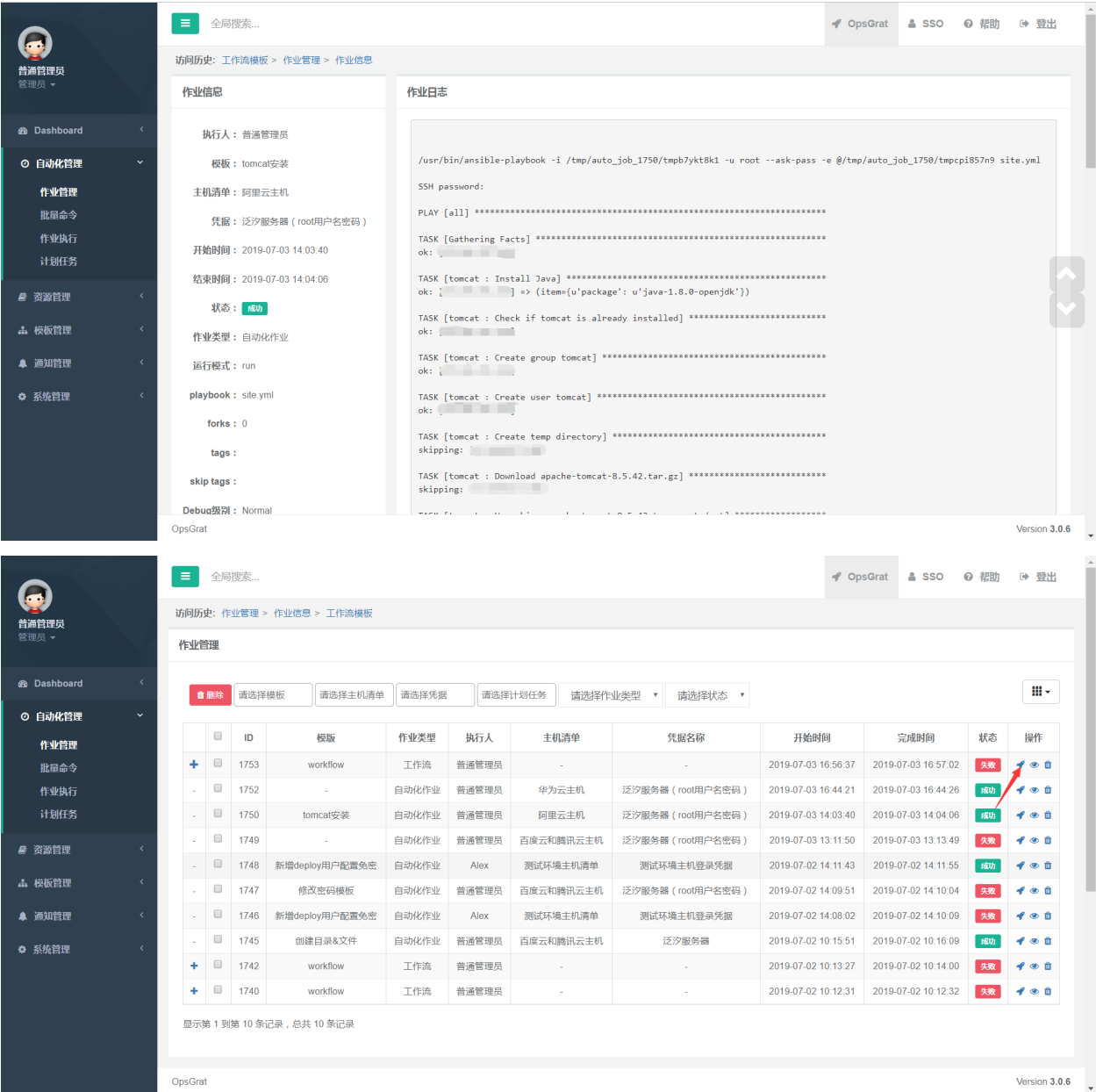
请选择状态

ID	模板	作业类型	执行人	主机清单	凭据名称	开始时间	完成时间	状态	操作
1753	workflow	工作流	普通管理员	-	-	2019-07-03 16:56:37	2019-07-03 16:57:02	失败	刷新 删除 详情
1752	-	自动化作业	普通管理员	华为云主机	泛沙服务器 (root用户名密码)	2019-07-03 16:44:21	2019-07-03 16:44:26	成功	刷新 删除 详情
1750	tomcat安装	自动化作业	普通管理员	阿里云主机	泛沙服务器 (root用户名密码)	2019-07-03 14:03:40	2019-07-03 14:04:06	成功	刷新 删除 详情
1749	-	自动化作业	普通管理员	百度云和腾讯云主机	泛沙服务器 (root用户名密码)	2019-07-03 13:11:50	2019-07-03 13:13:49	失败	刷新 删除 详情
1748	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:11:43	2019-07-02 14:11:55	成功	刷新 删除 详情
1747	修改密码模板	自动化作业	普通管理员	百度云和腾讯云主机	泛沙服务器 (root用户名密码)	2019-07-02 14:09:51	2019-07-02 14:10:04	失败	刷新 删除 详情
1746	新增deploy用户配置免密	自动化作业	Alex	测试环境主机清单	测试环境主机登录凭据	2019-07-02 14:08:02	2019-07-02 14:10:09	失败	刷新 删除 详情
1745	创建目录&文件	自动化作业	普通管理员	百度云和腾讯云主机	泛沙服务器	2019-07-02 10:15:51	2019-07-02 10:16:09	成功	刷新 删除 详情
1742	workflow	工作流	普通管理员	-	-	2019-07-02 10:13:27	2019-07-02 10:14:00	失败	刷新 删除 详情
1740	workflow	工作流	普通管理员	-	-	2019-07-02 10:12:31	2019-07-02 10:12:32	失败	刷新 删除 详情

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2.3.2





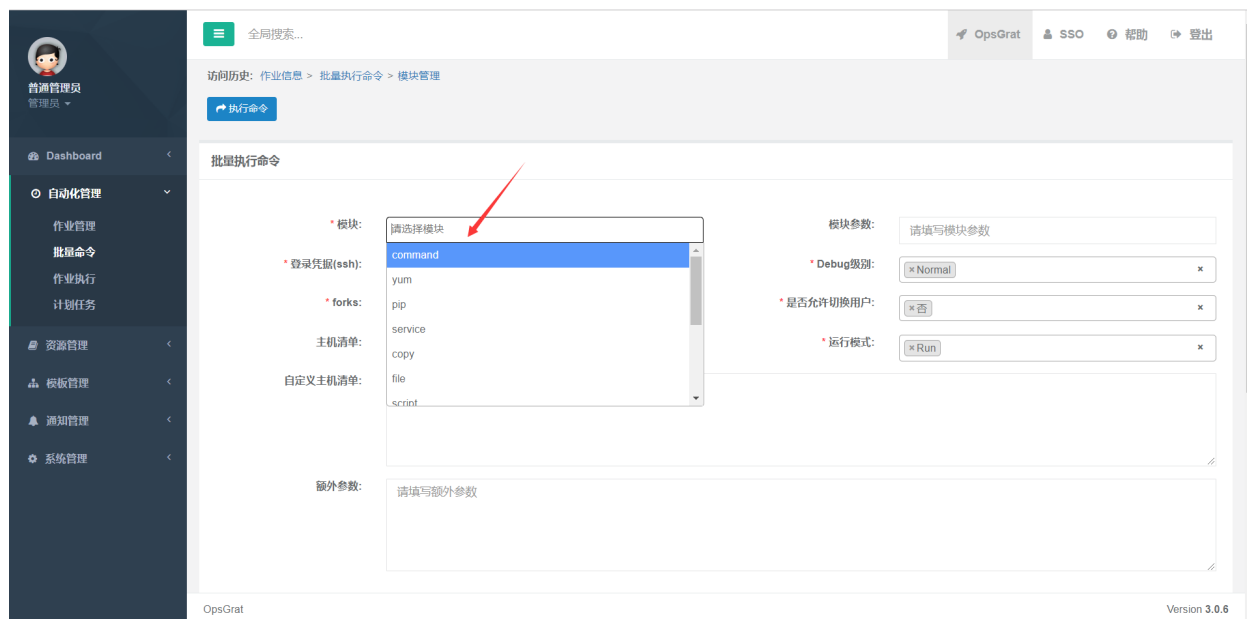
访问历史: 作业管理 > 作业信息 > 批量执行命令

模块管理

+ 新增 删除 模块名称

ID	模块名称	权重	模块描述	操作
1	command	0	命令	编辑 删除
2	yum	0	使用yum包管理工具管理Red Hat上的包	编辑 删除
3	pip	0	试用pip管理python依赖库	编辑 删除
4	service	0	服务管理	编辑 删除
5	copy	0	将文件复制到远程节点上	编辑 删除
6	file	0	设置文件或者文件夹属性	编辑 删除
7	script	0	将本地脚本传输到远程节点上运行	编辑 删除
8	user	0	管理用户账户	编辑 删除
9	group	0	添加或删除GROUP	编辑 删除
10	template	0	将模板文件传输到远程服务器	编辑 删除
11	unarchive	0	解压文件、复制到远程服务器上	编辑 删除
12	mysql_db	0	管理MySQL数据库, 创建或删除用户、数据库、导入表等	编辑 删除
14	shell	0	命令	编辑 删除

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访问历史: 作业信息 > 批量执行命令 > 模块管理

执行命令

批量执行命令

* 模块: 请选择模块
command
yum
pip
service
copy
file
script

* 登录凭证(ssh):

* forks:

主机清单:

自定义主机清单:

模块参数: 请填写模块参数

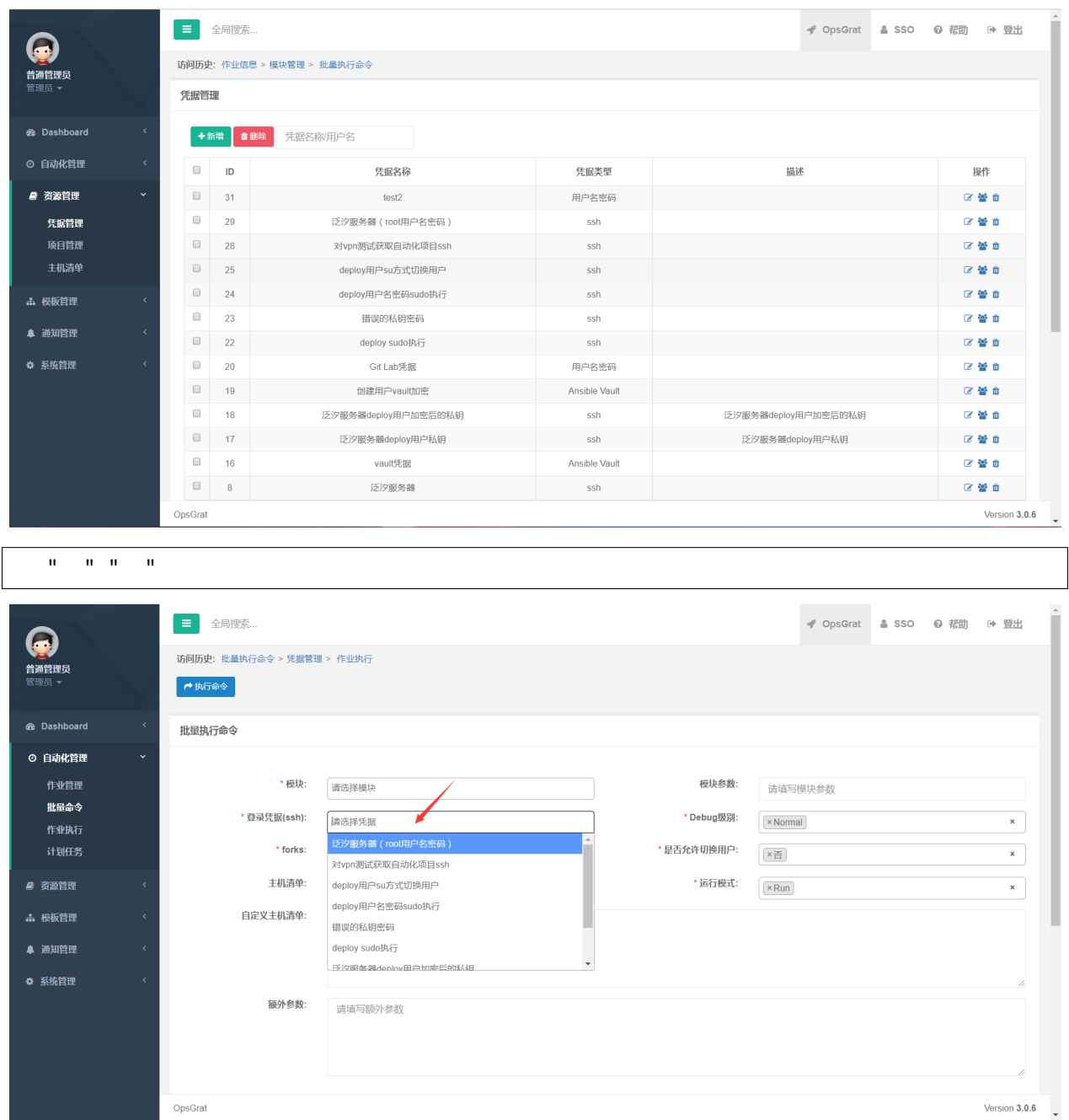
* Debug级别: Normal

* 是否允许切换用户: 否

* 运行模式: Run

额外参数: 请填写额外参数

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访问历史: 凭据管理 > 作业执行 > 批量执行命令

主机清单

[+ 新增](#) [删除](#) 名称/描述

ID	名称	描述	操作
20			
18	云主机		
17	1234		
16	223		
11	我的主机清单		
9	和主机		
8	lamp-haproxy	测试	
6	haproxy		
4	测试主机	测试	
3	演示主机	测试	

显示第 1 到第 10 条记录, 总共 10 条记录

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访问历史: 作业执行 > 批量执行命令 > 主机清单

批量执行命令

[执行命令](#)

* 模块: 请选择模块

* 登录凭据(ssh): 请选择凭据

* forks: 0

* 主机清单: 请选择主机清单

* 自定义主机清单: 华为云主机, 阿里云主机, 1234, 223, 我的主机清单

* 额外参数: 百度云和腾讯云主机, lamp.haproxy

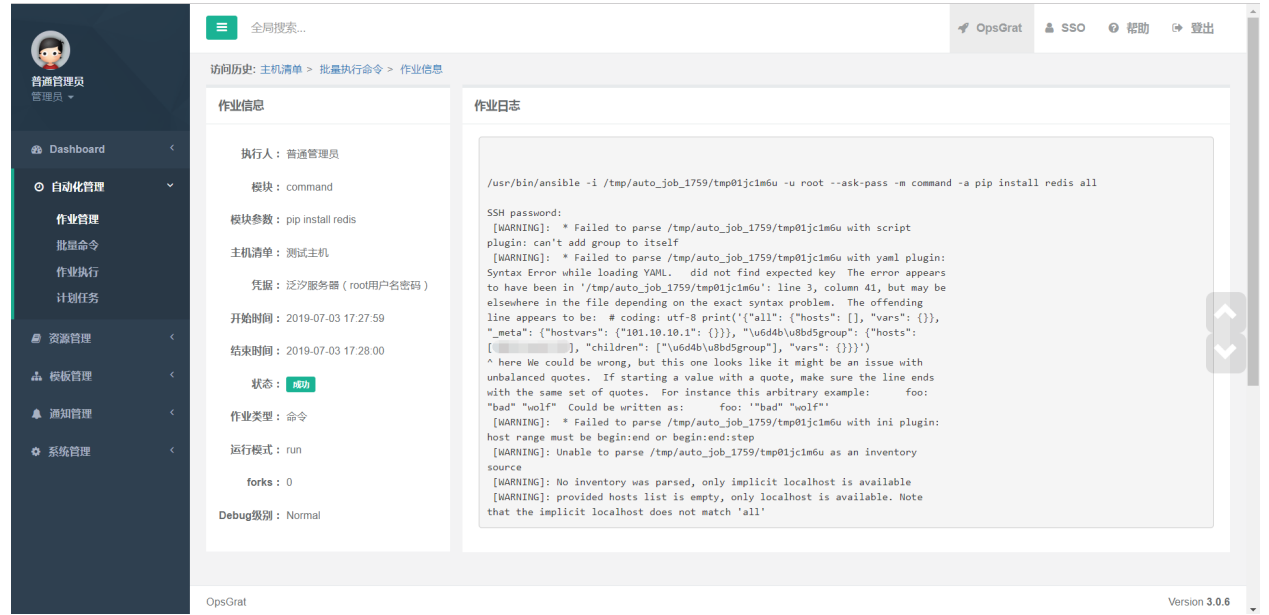
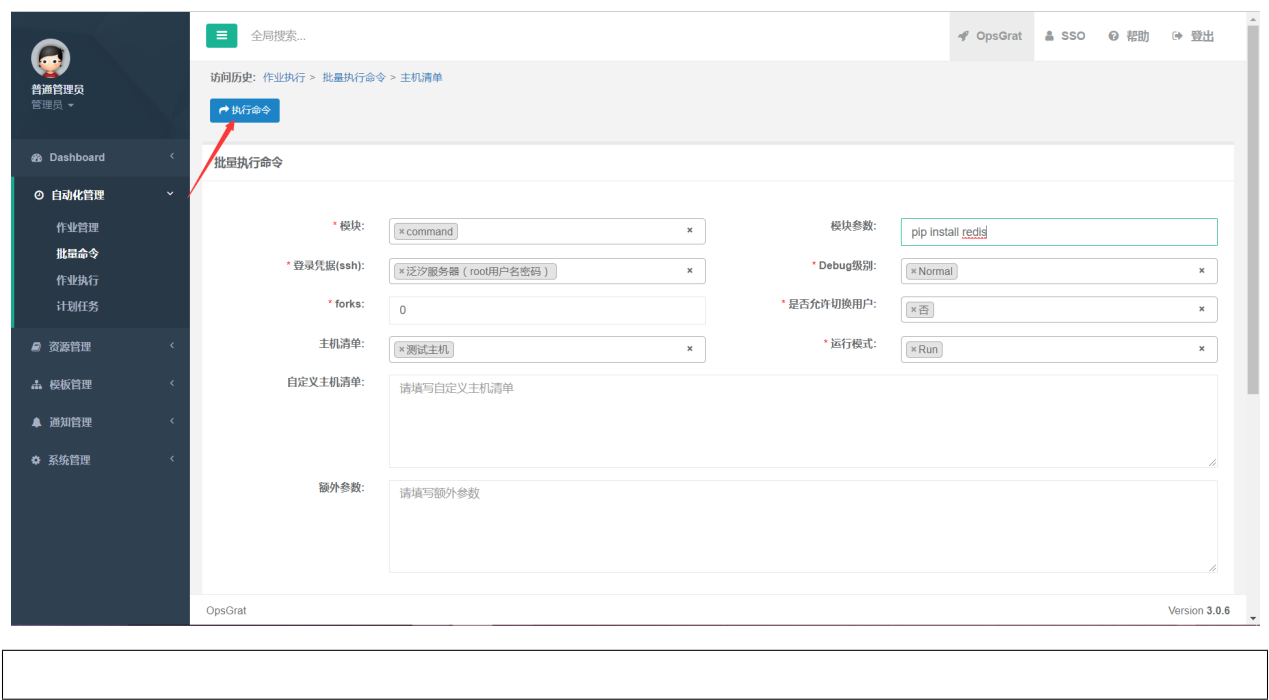
模块参数: 请填写模块参数

* Debug级别: Normal

* 是否允许切换用户: 否

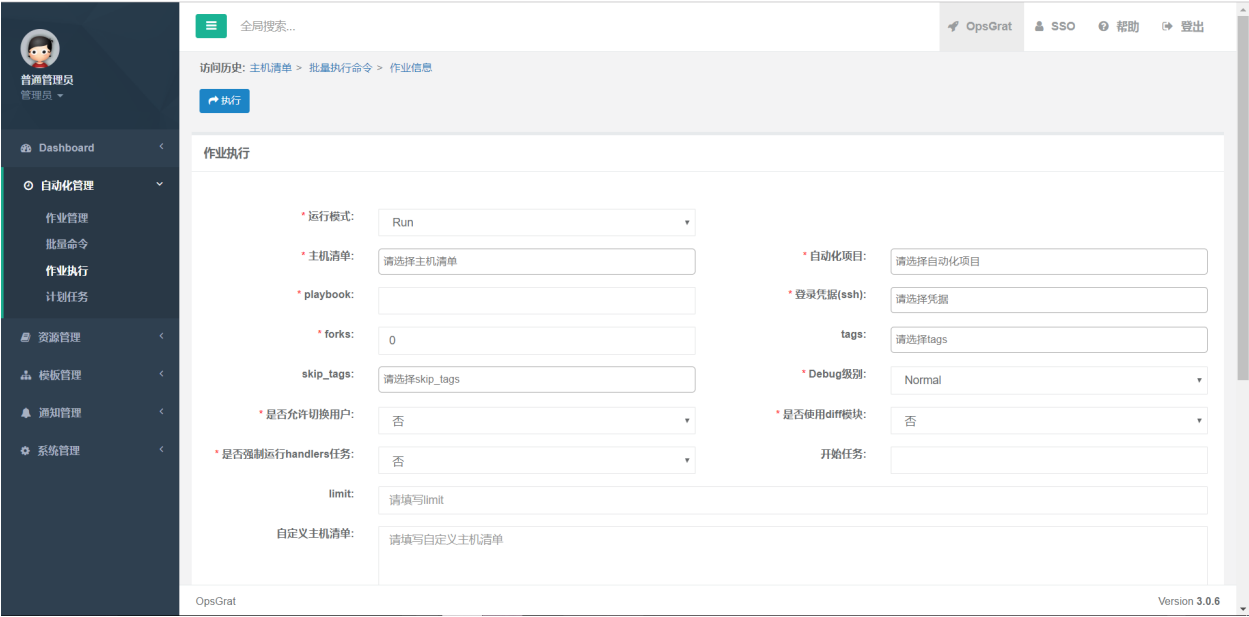
* 运行模式: Run

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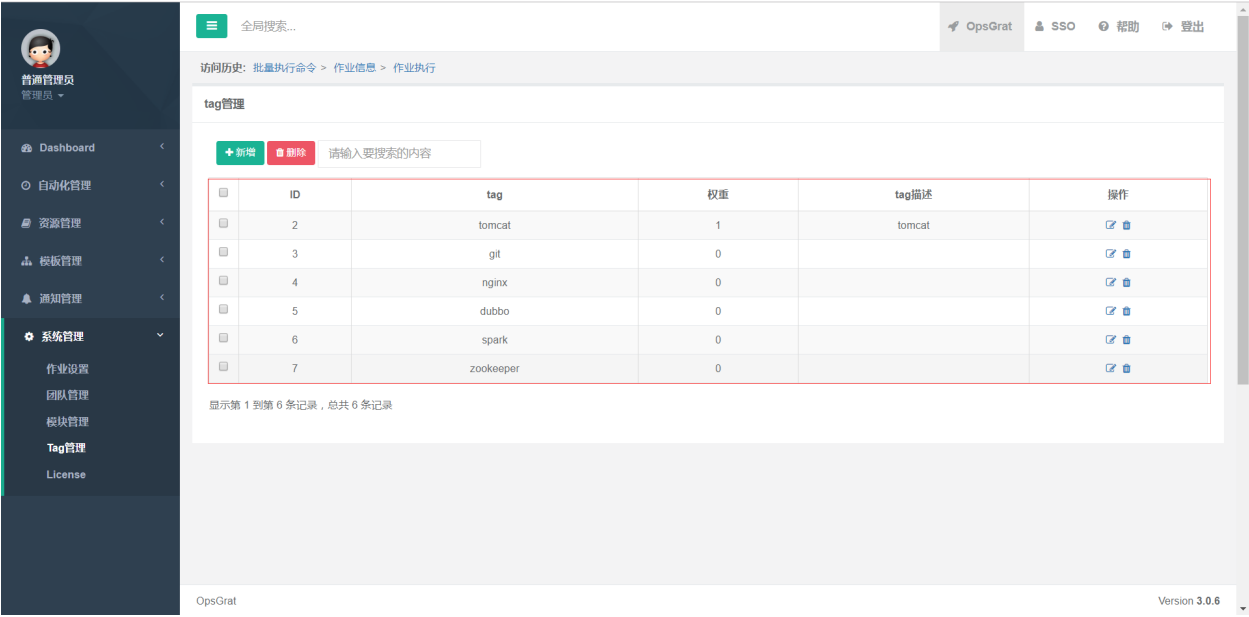


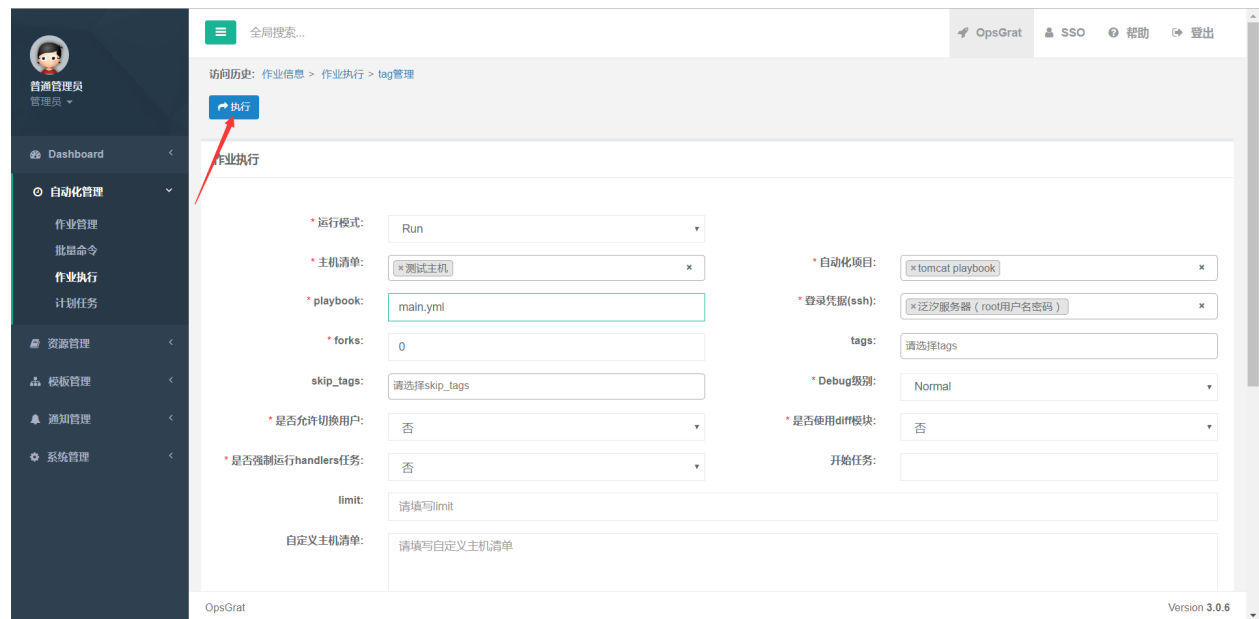
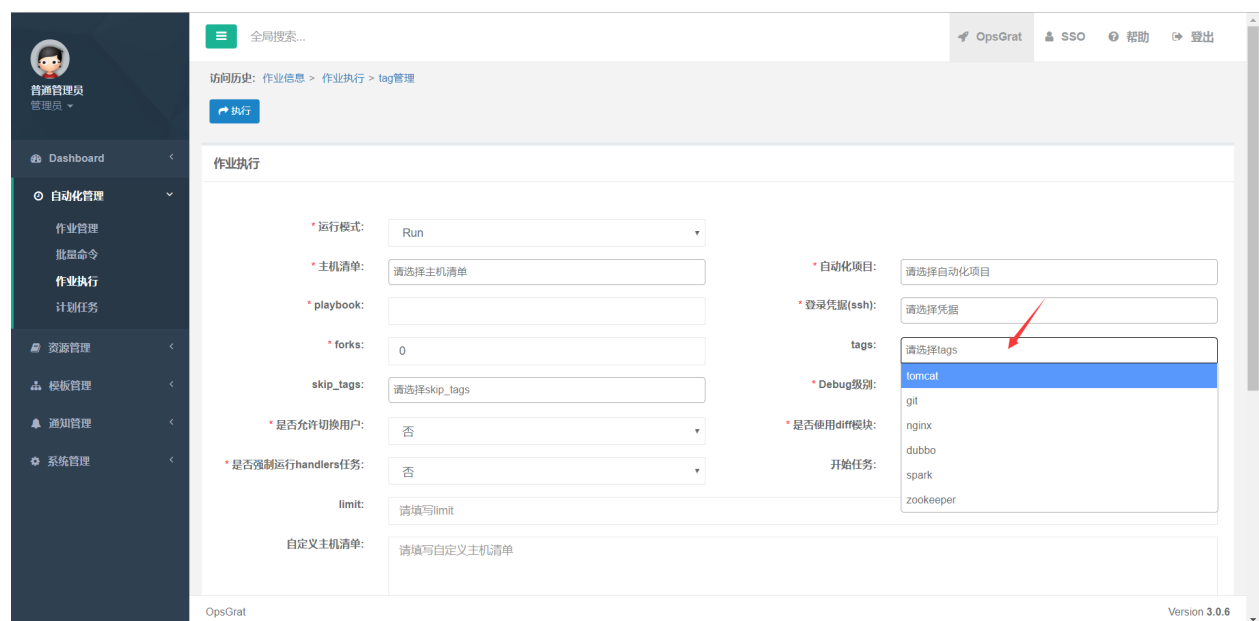
2.3.3

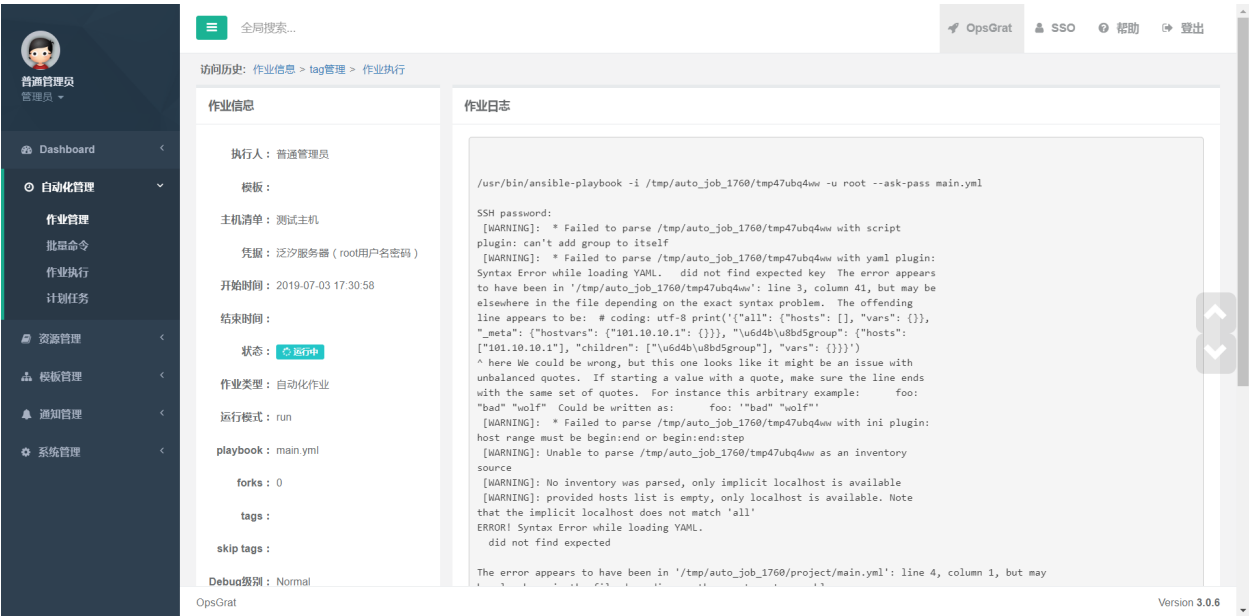




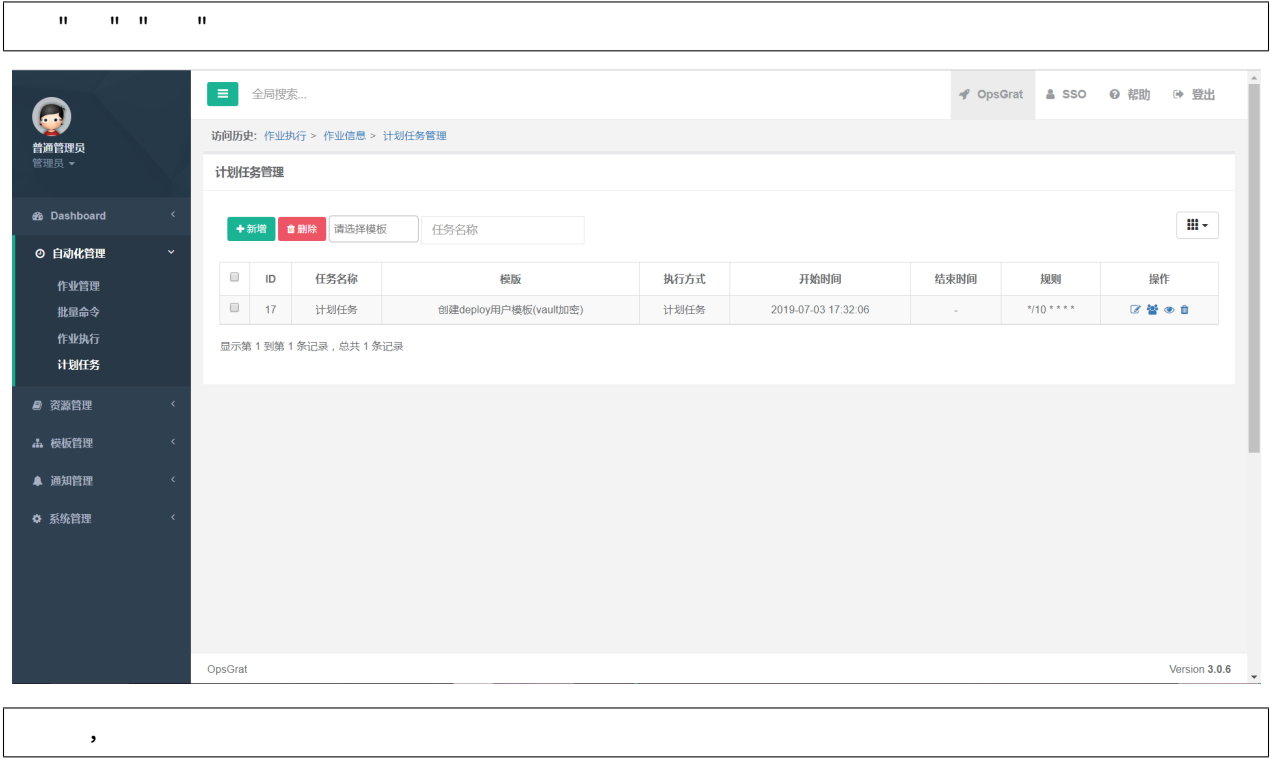
(ssh)
tags skip_tags " " "Tag "

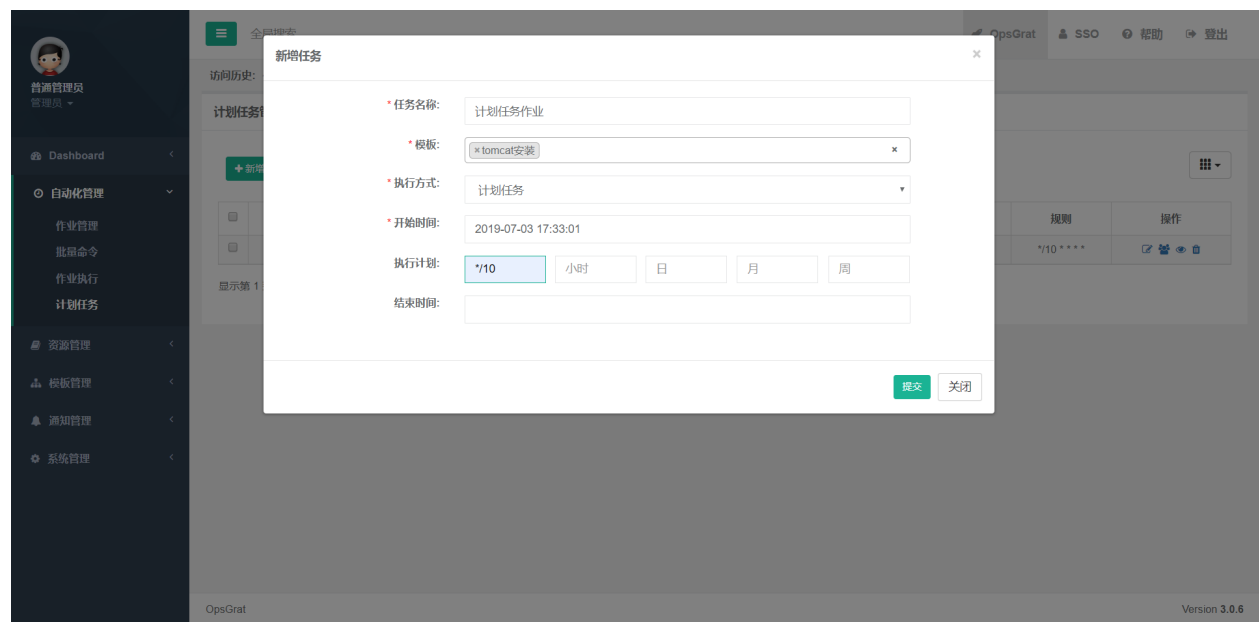




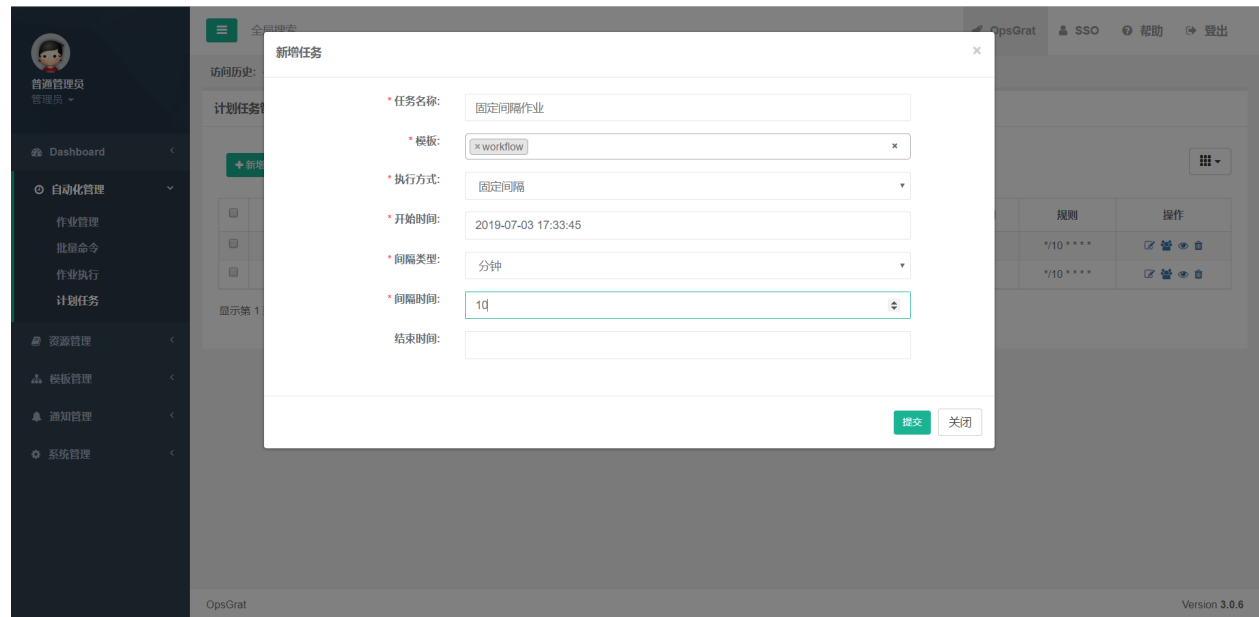


2.3.4

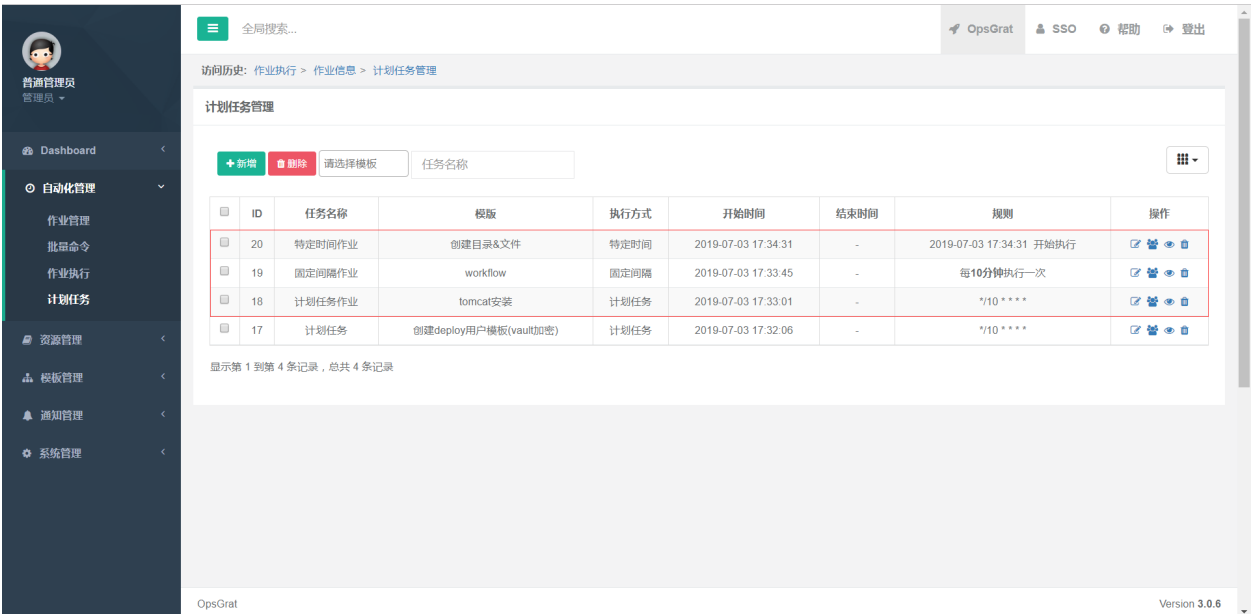
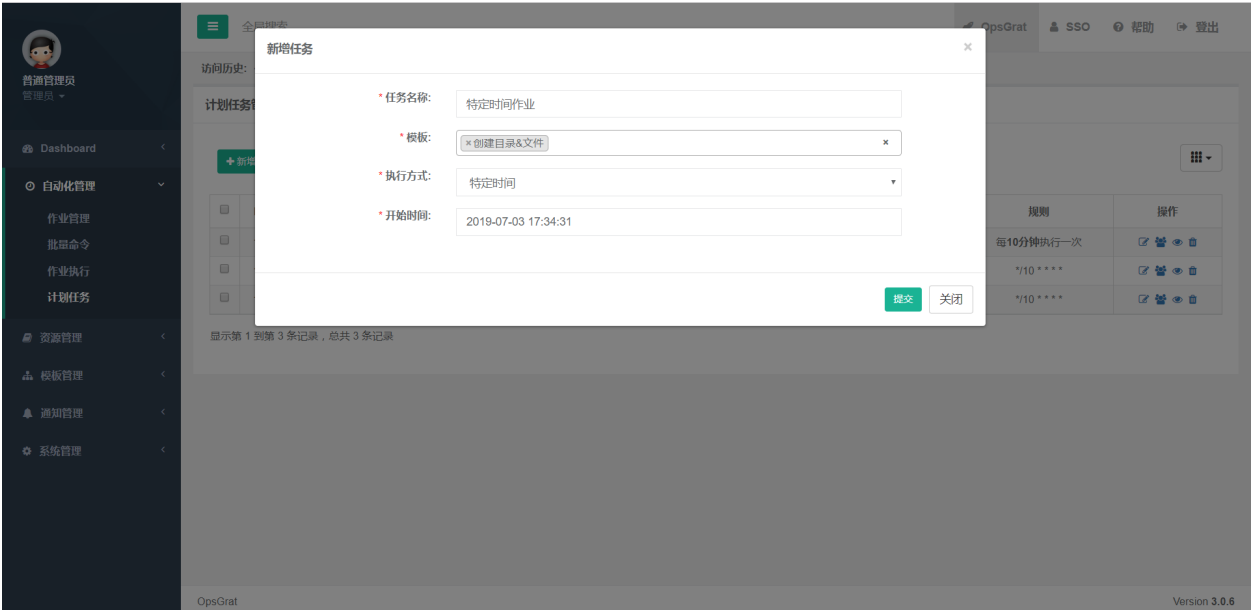


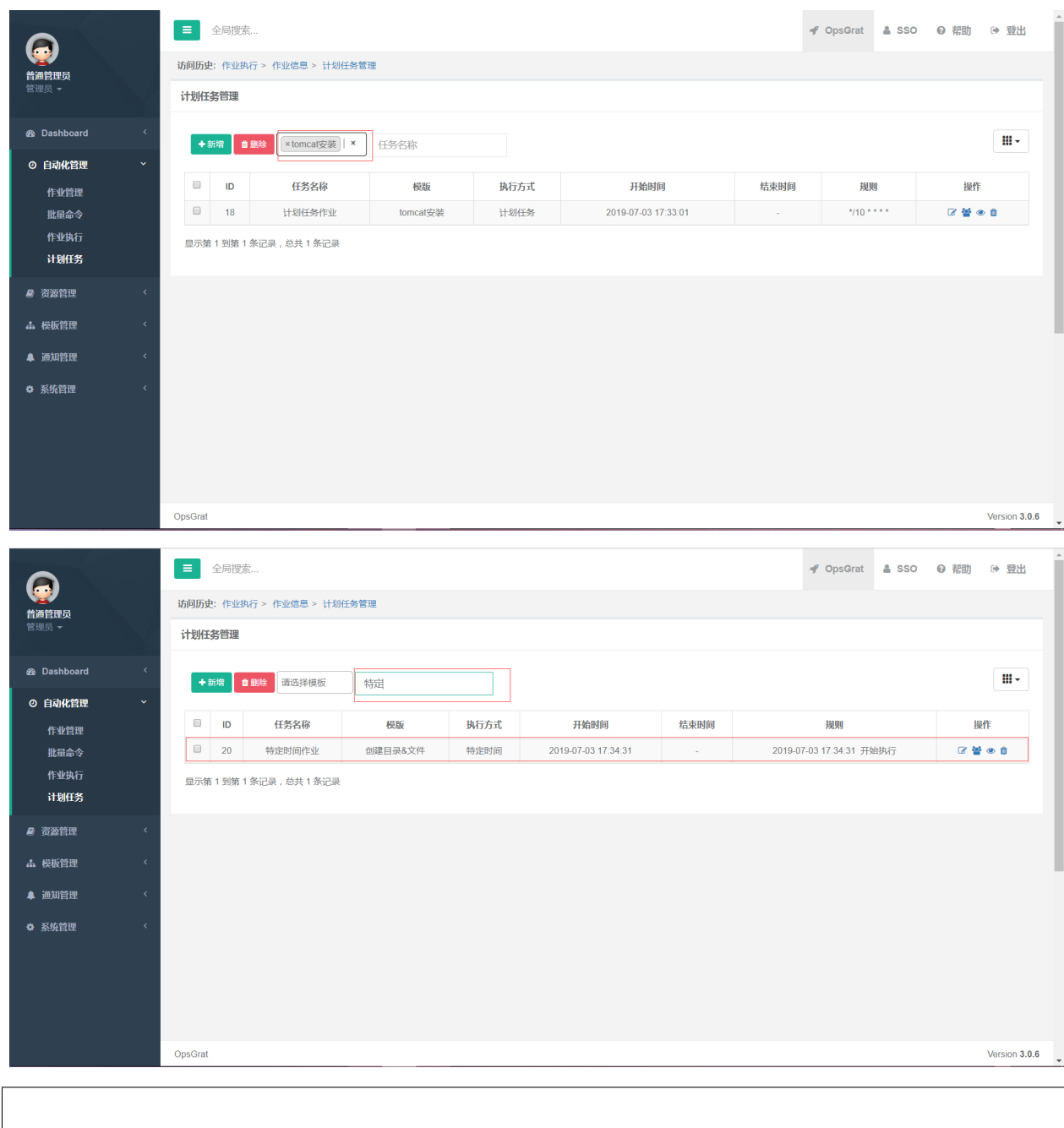


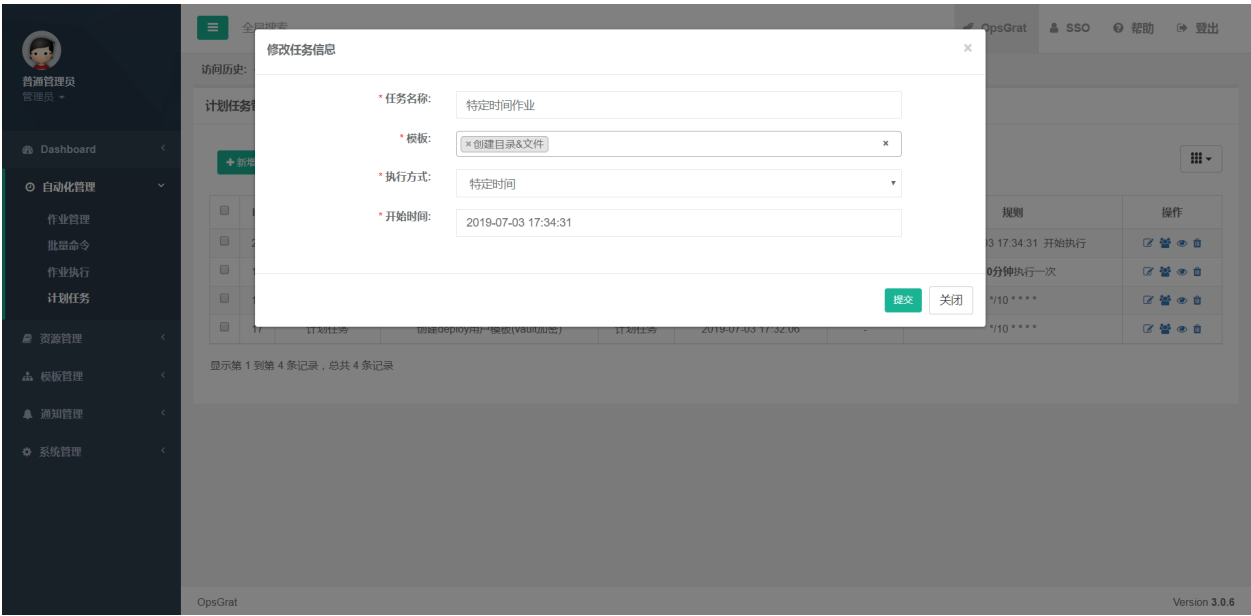
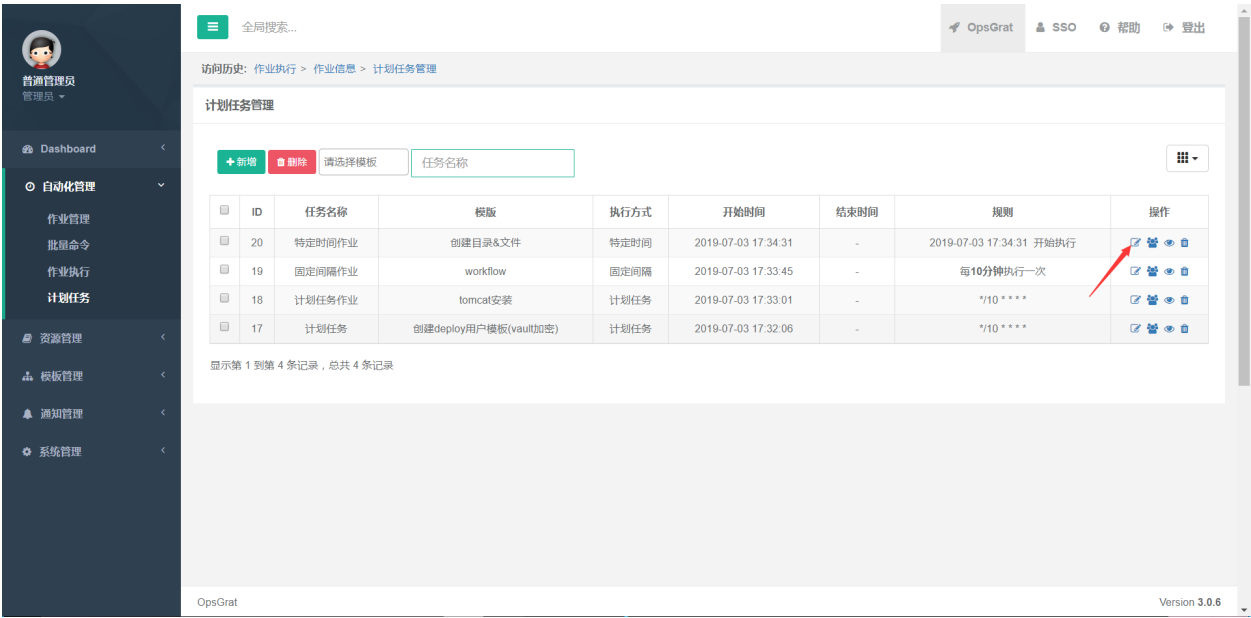
,

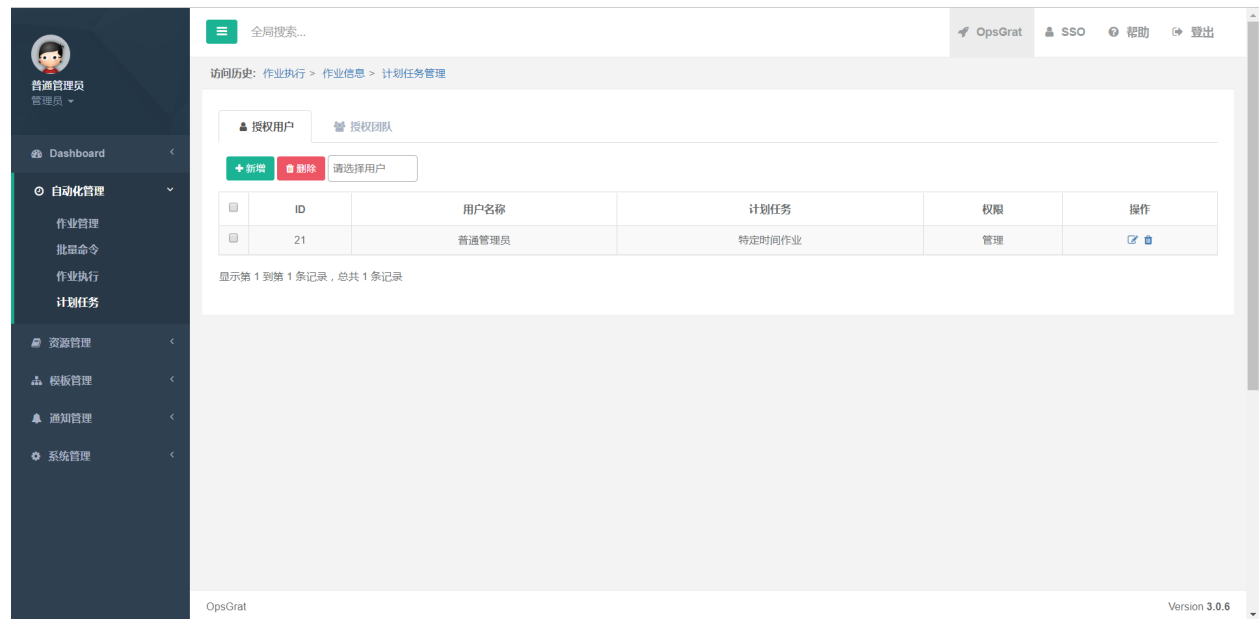
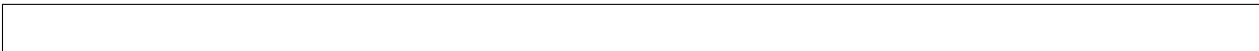
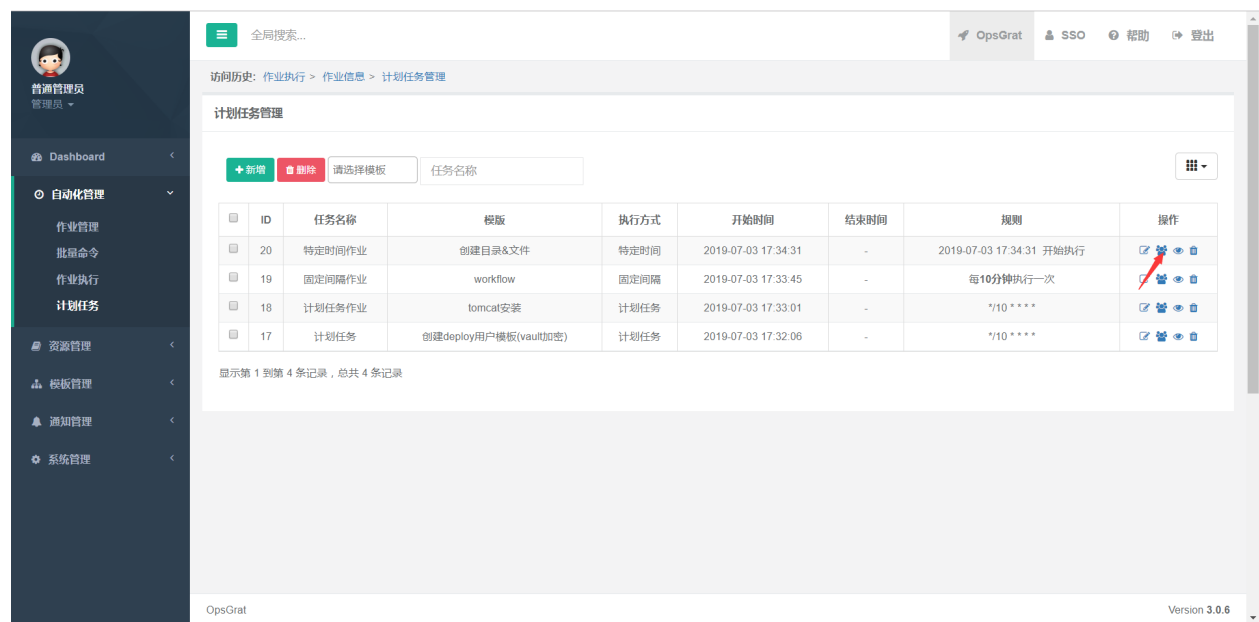


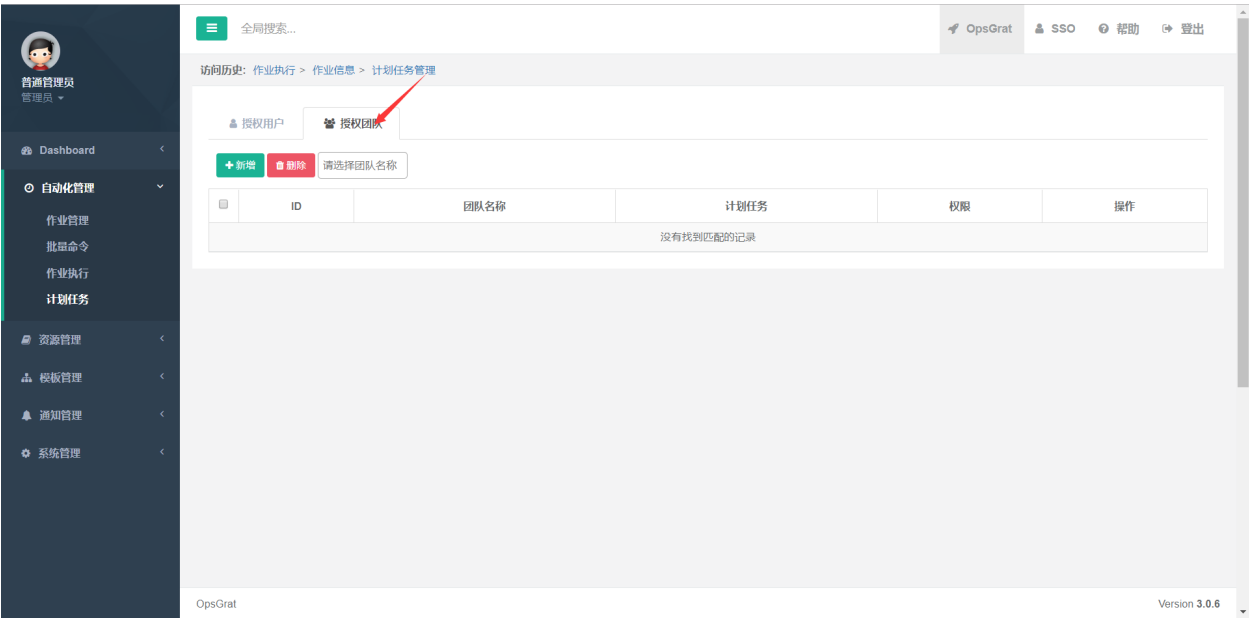
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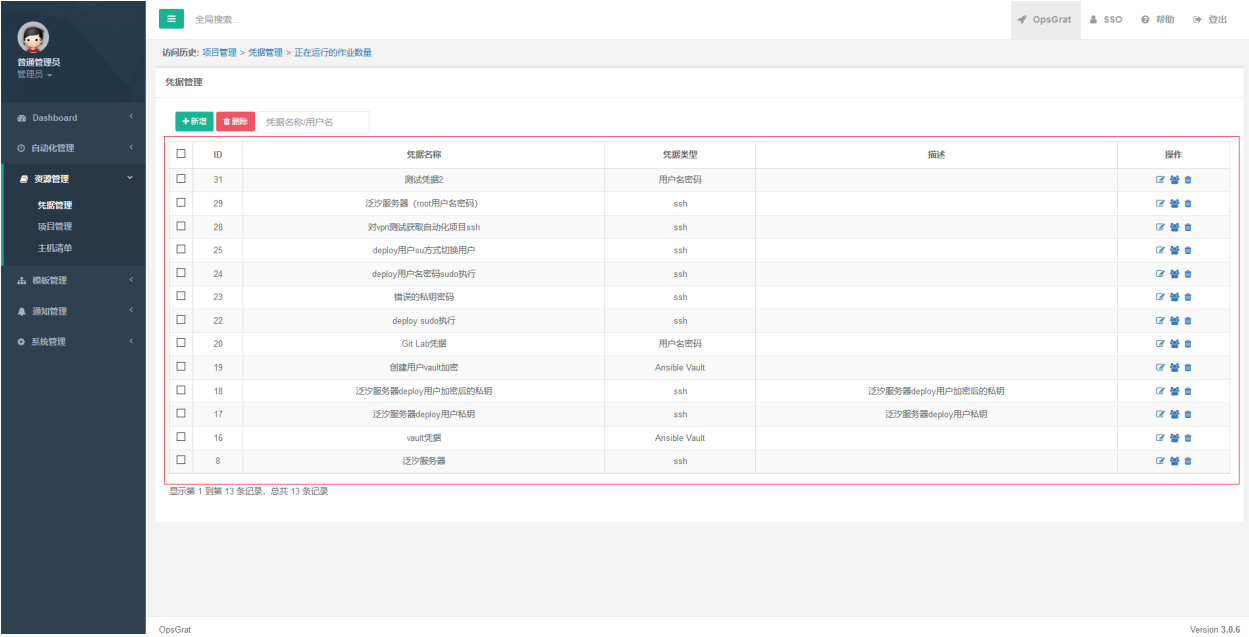




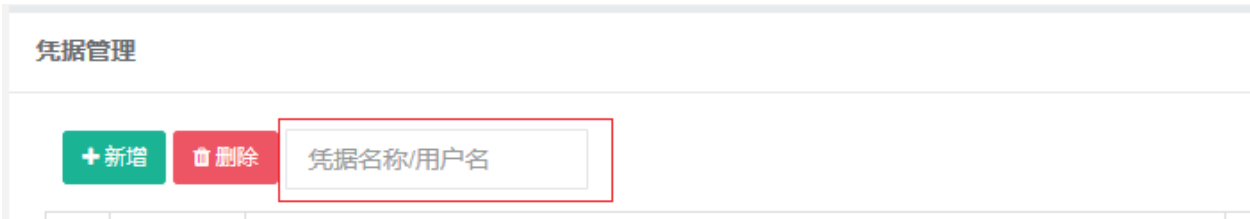
2.4

2.4.1

1.1



1.2

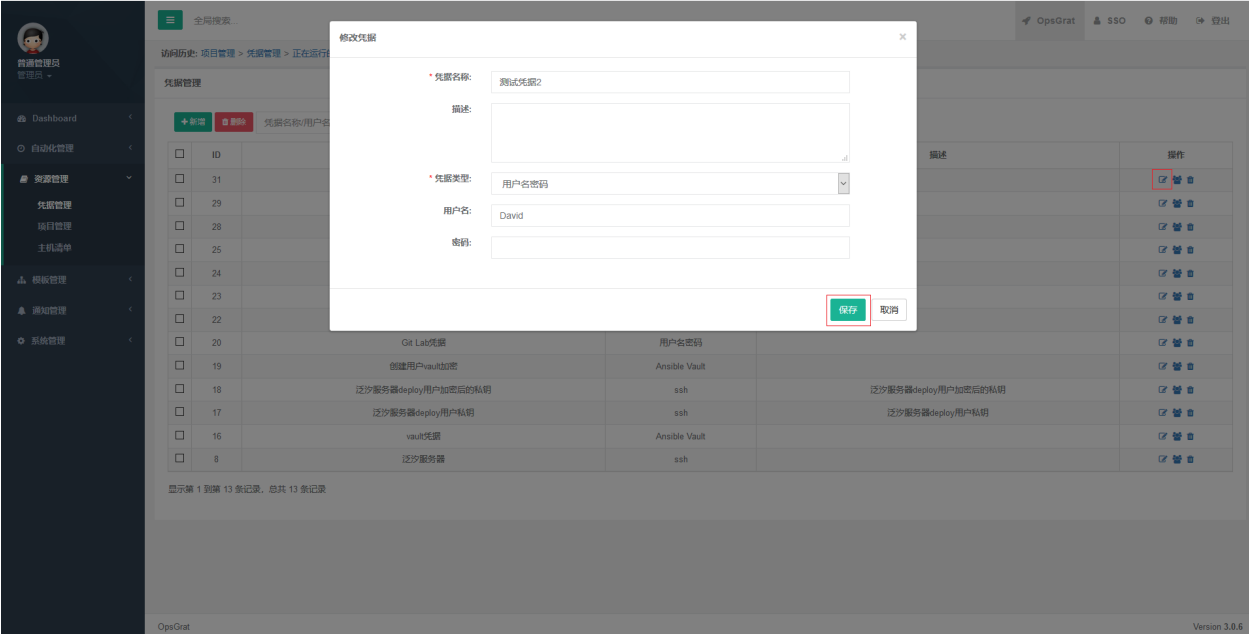


1.3



1.4



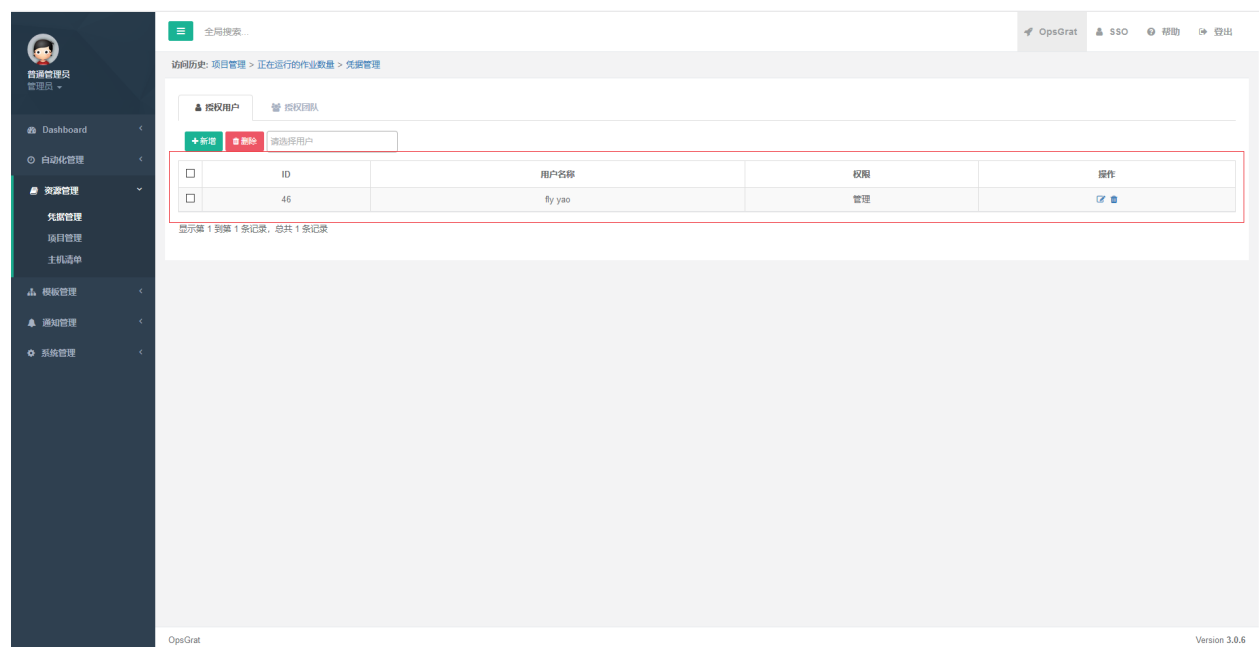


1.5



1.6.1



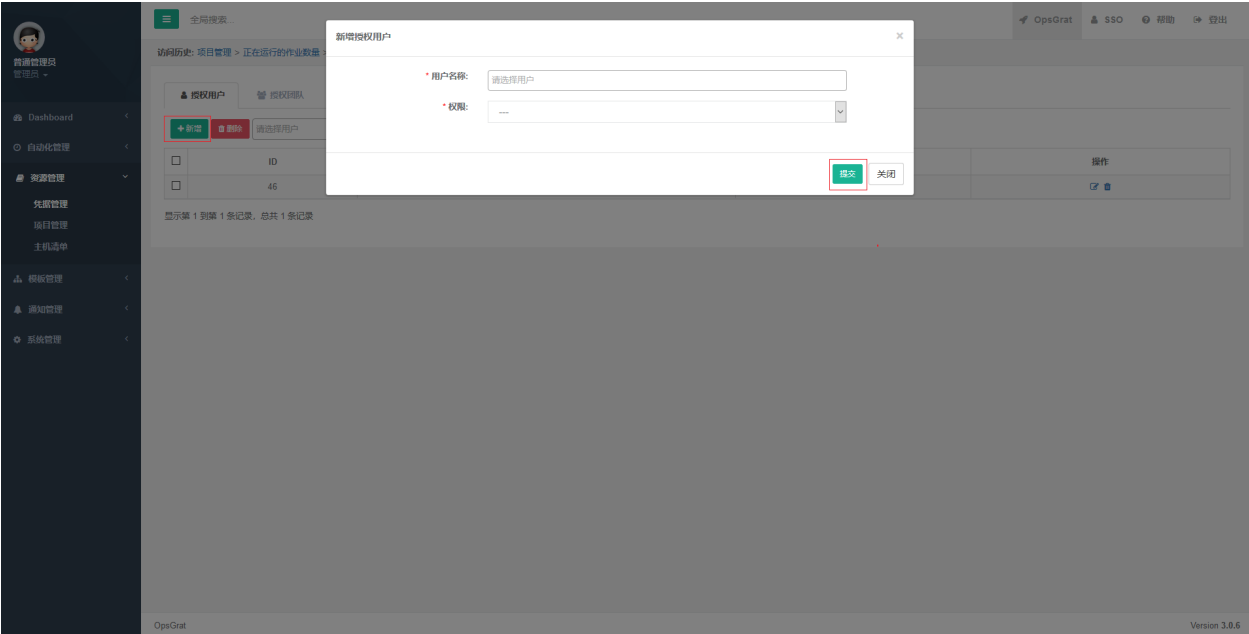


1.6.2

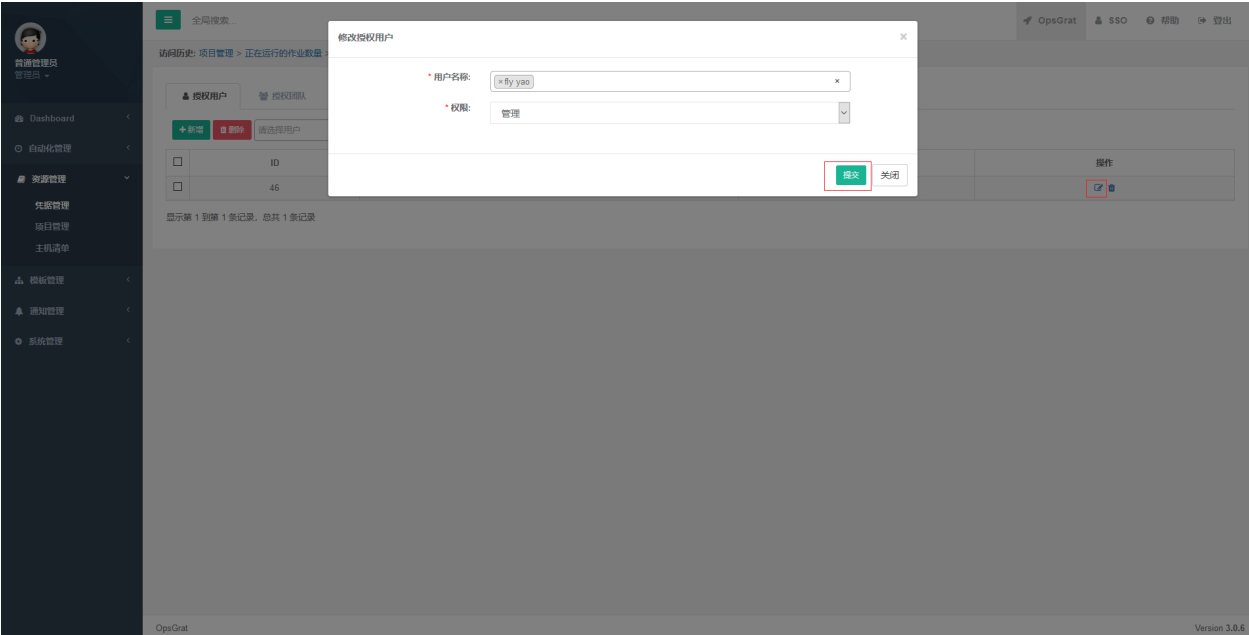


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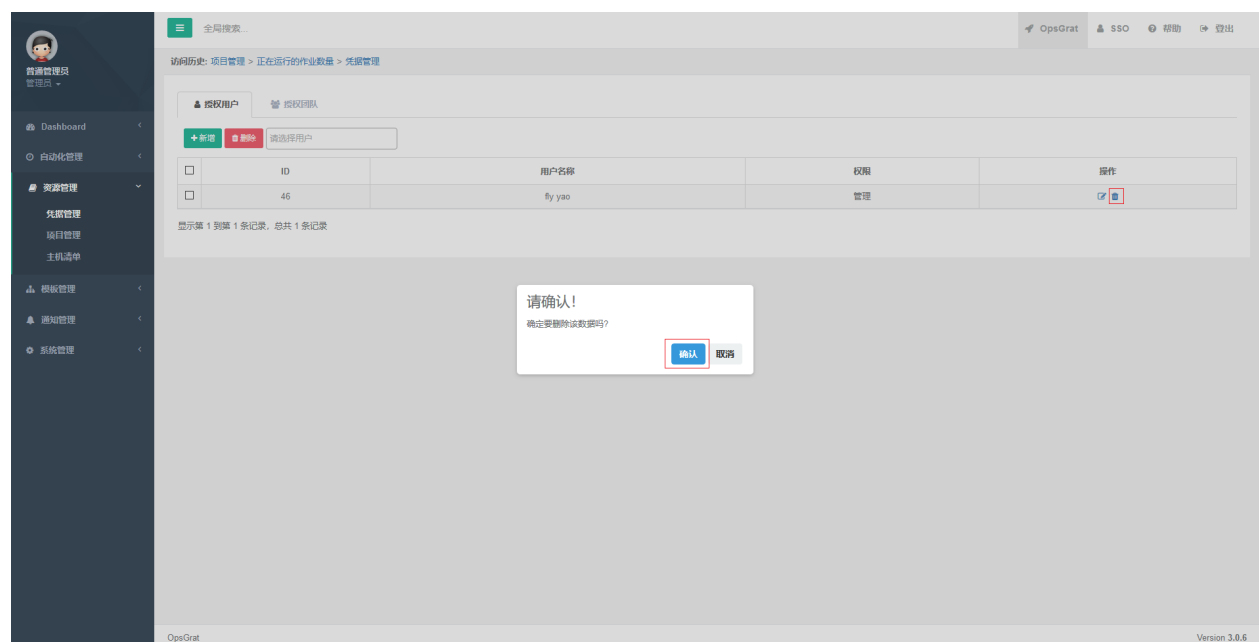


1.6.4

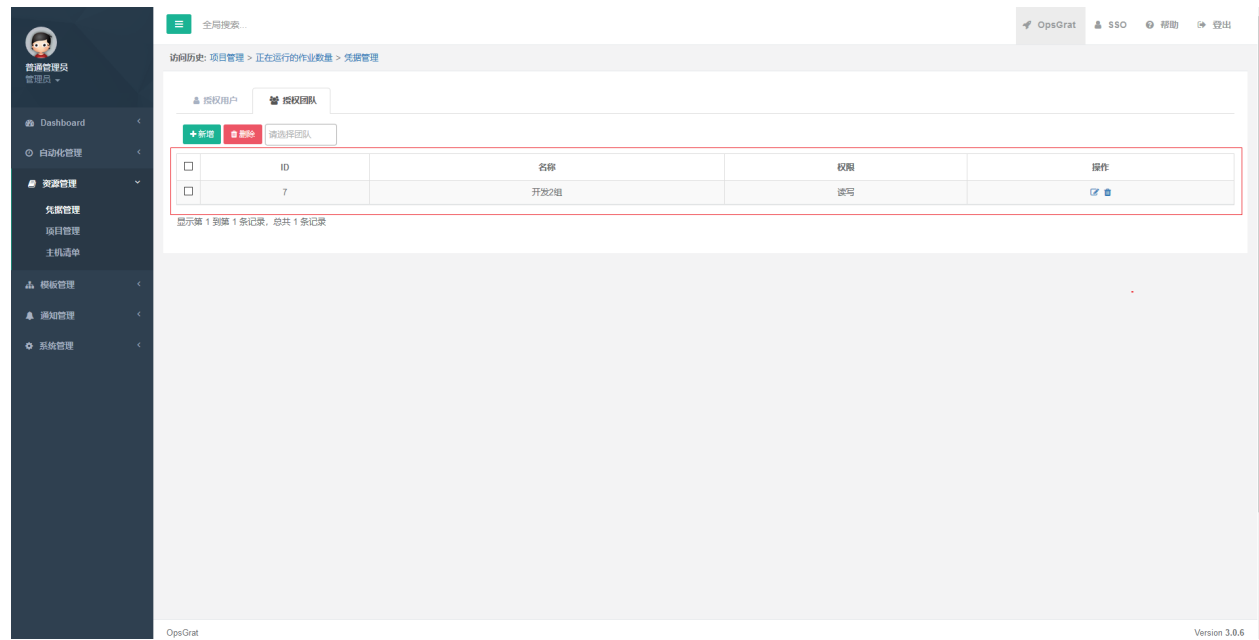
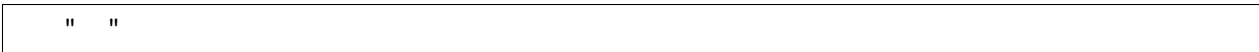


1.6.5





1.6.6

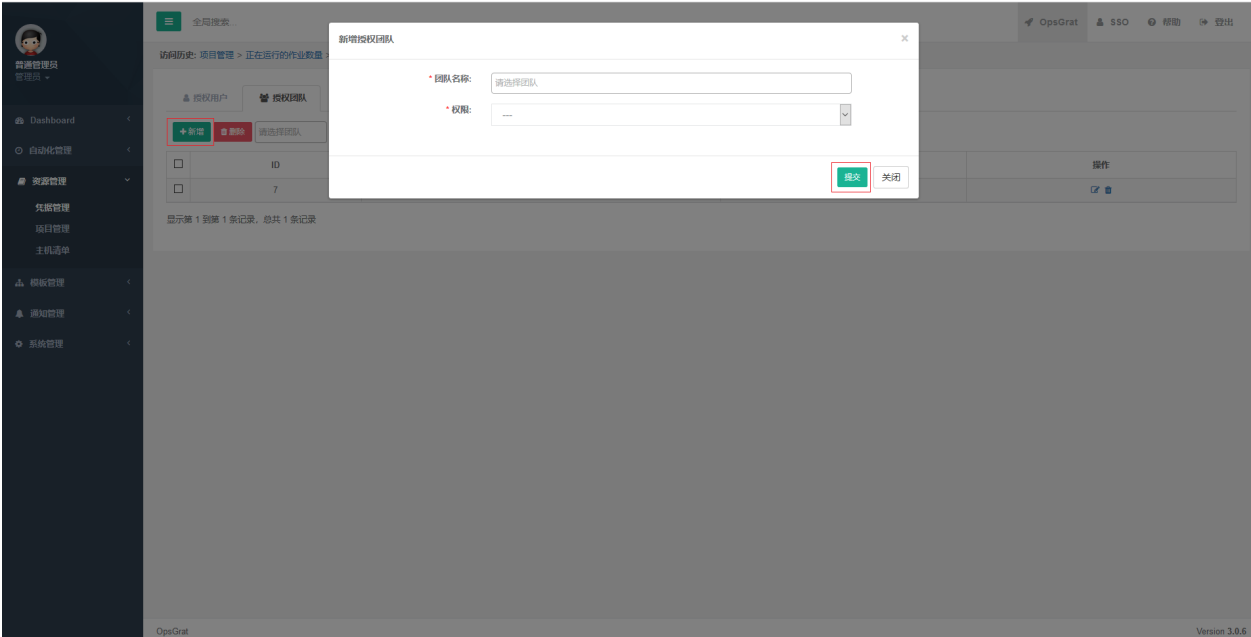
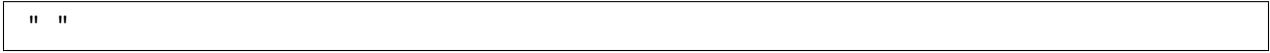


1.6.7



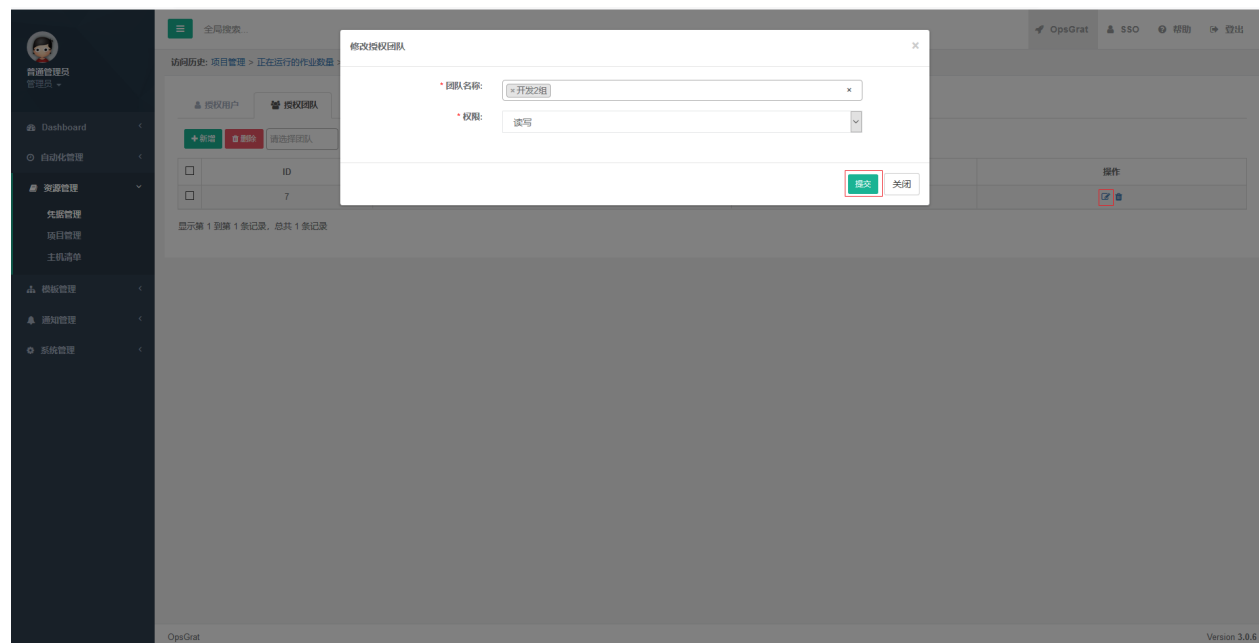


1.6.8

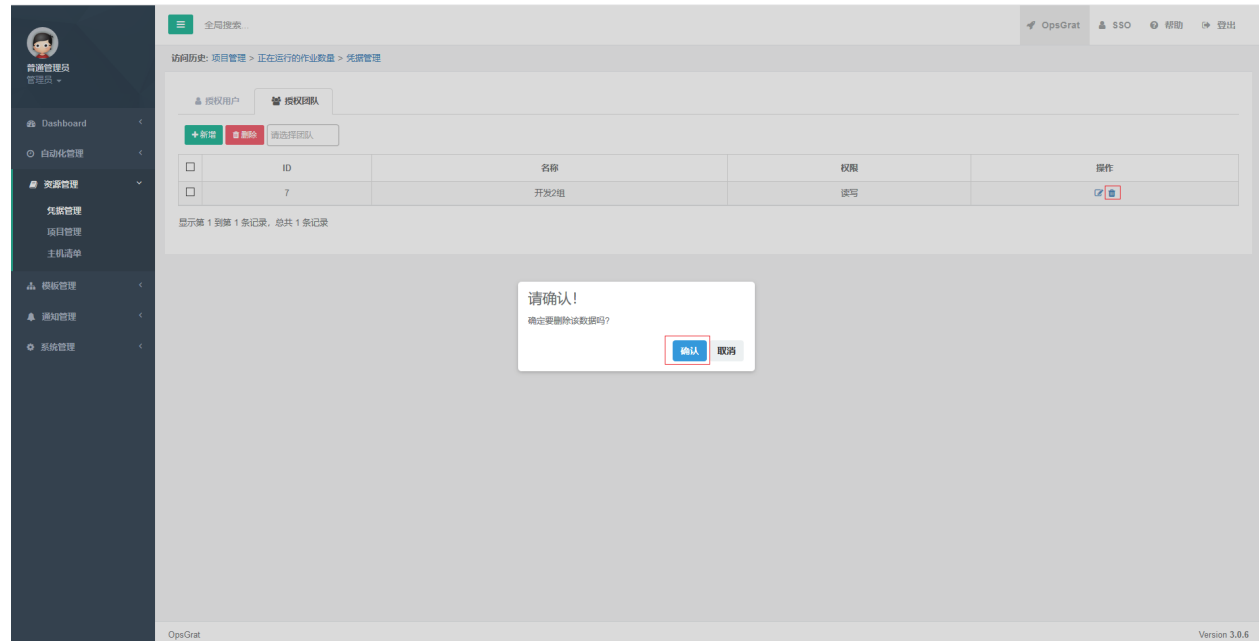


1.6.9



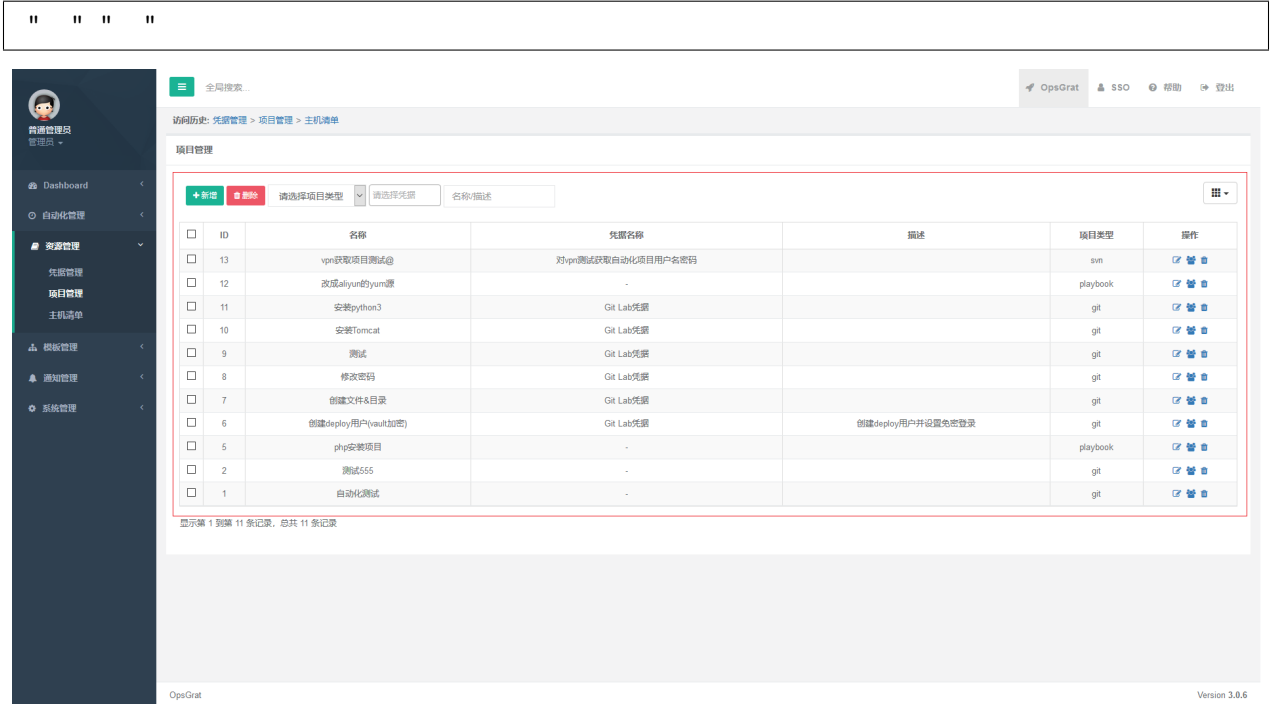


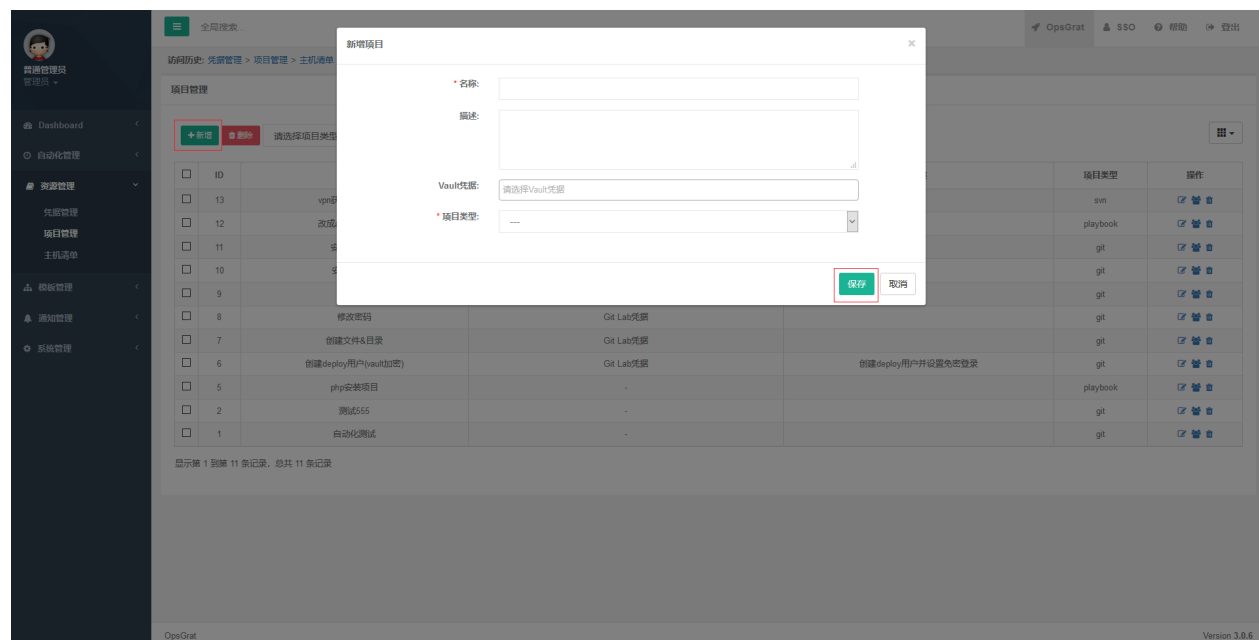
1.6.10



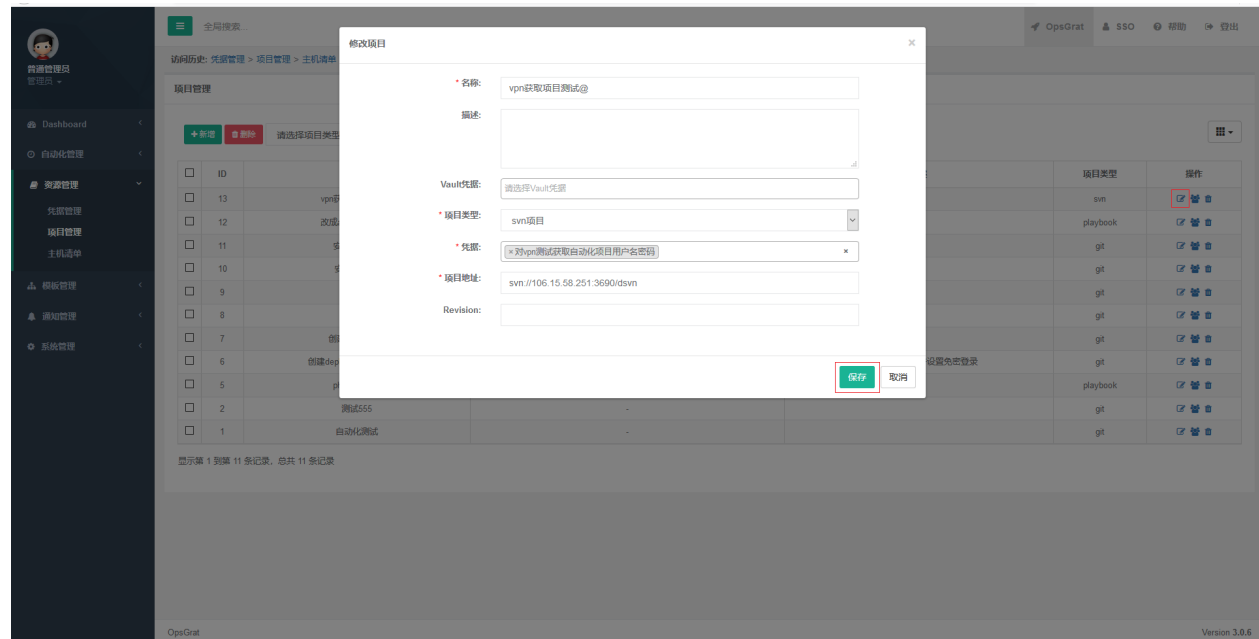
2.4.2

2.1





2.4

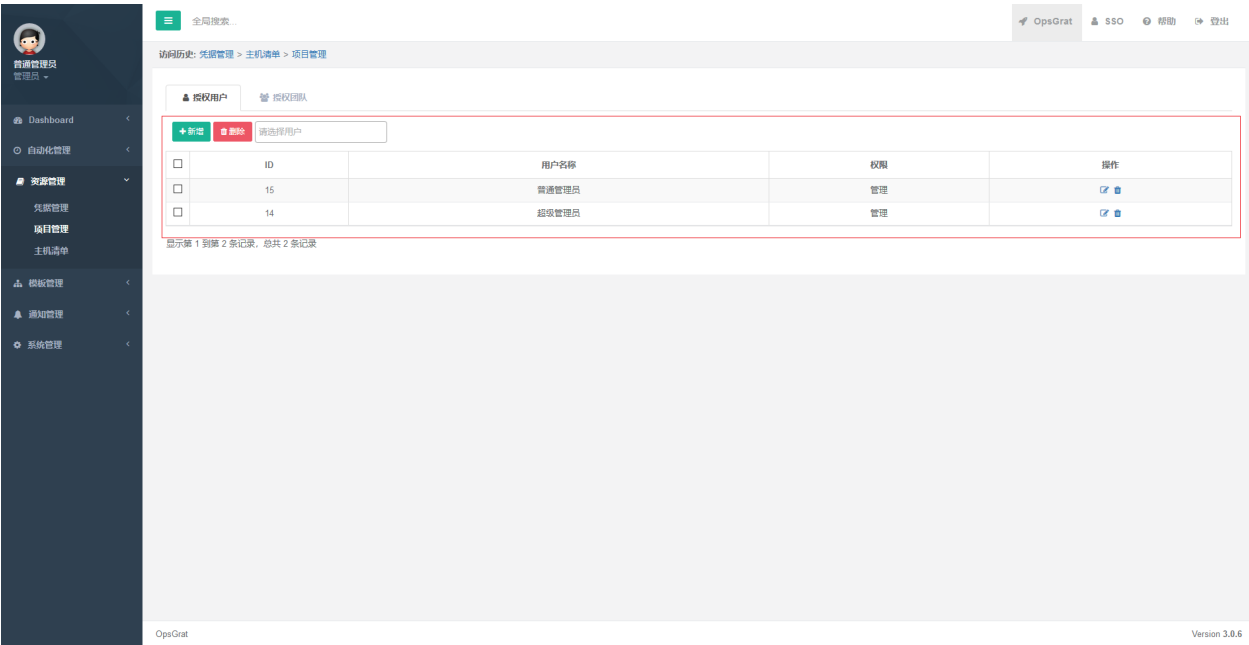


2.5





2.6.1

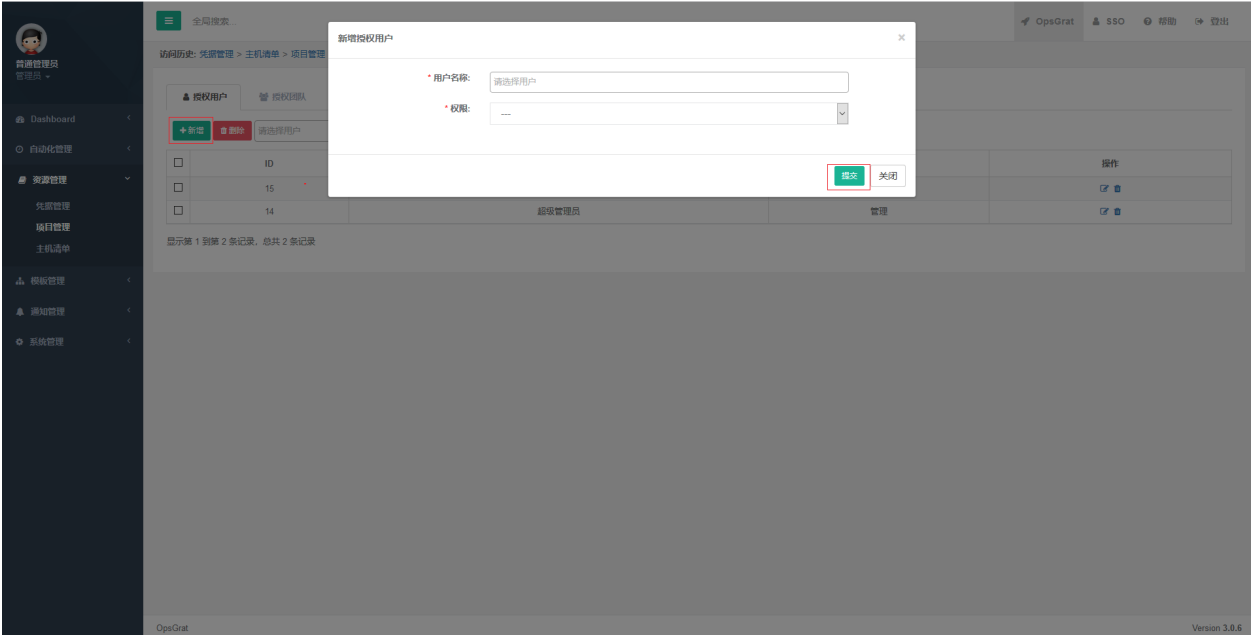


2.6.2



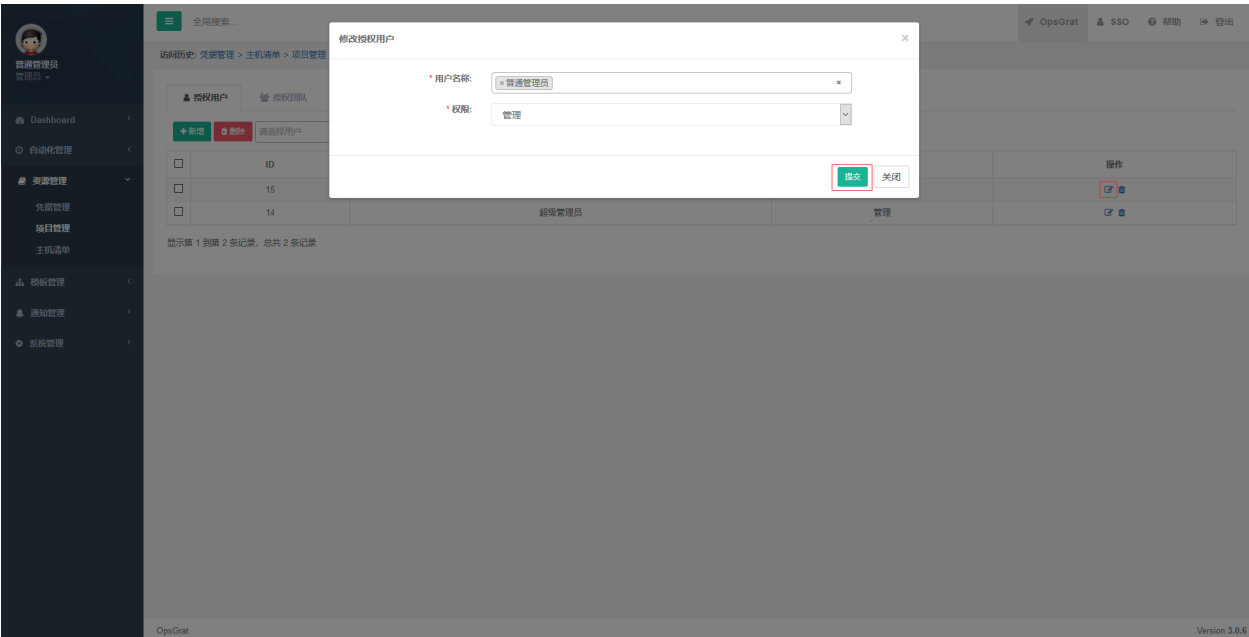


2.6.3

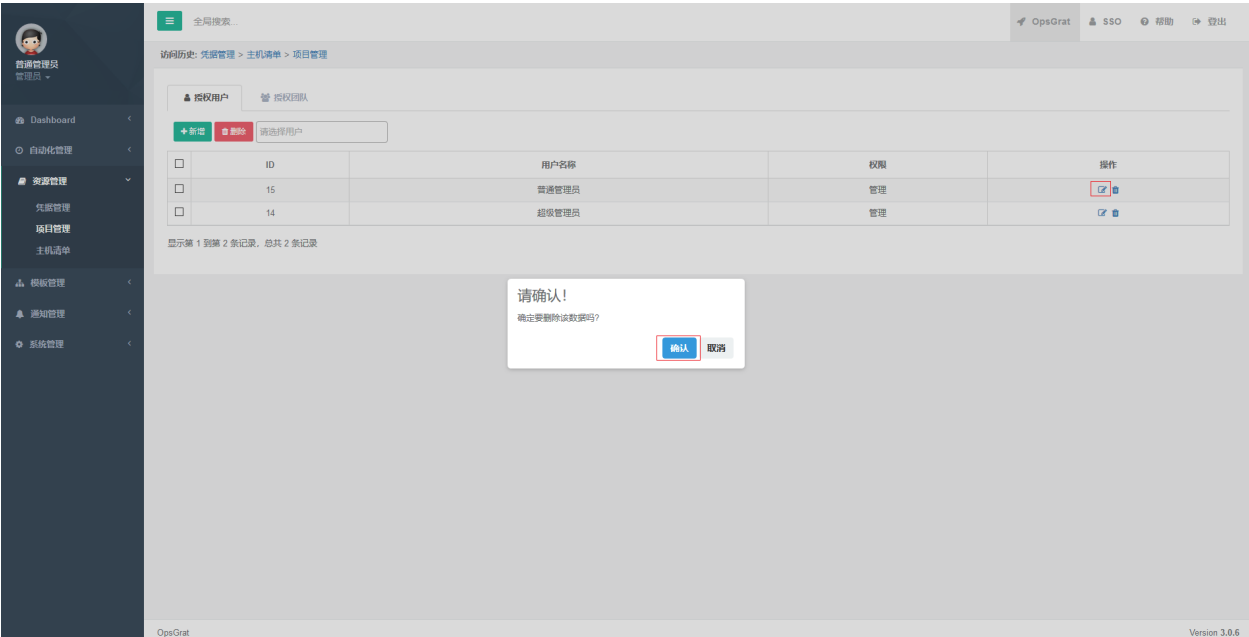


2.6.4



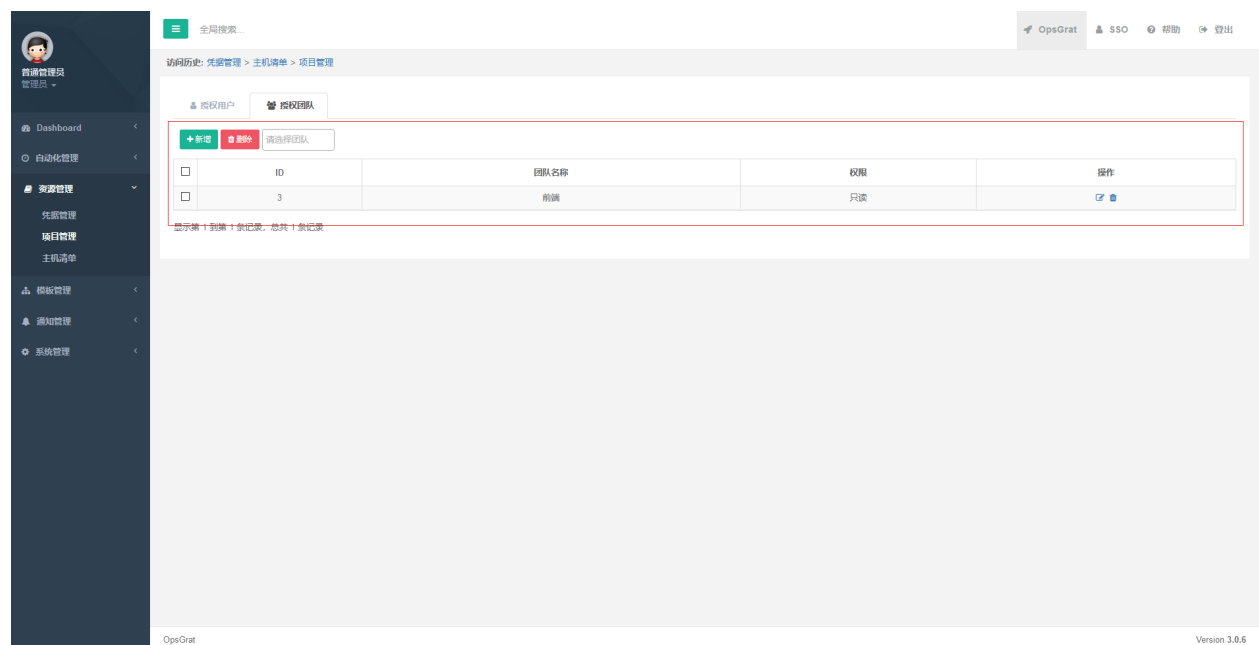


2.6.5

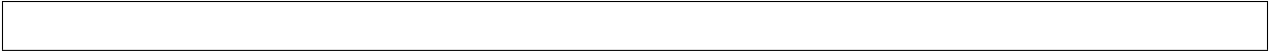


2.6.6



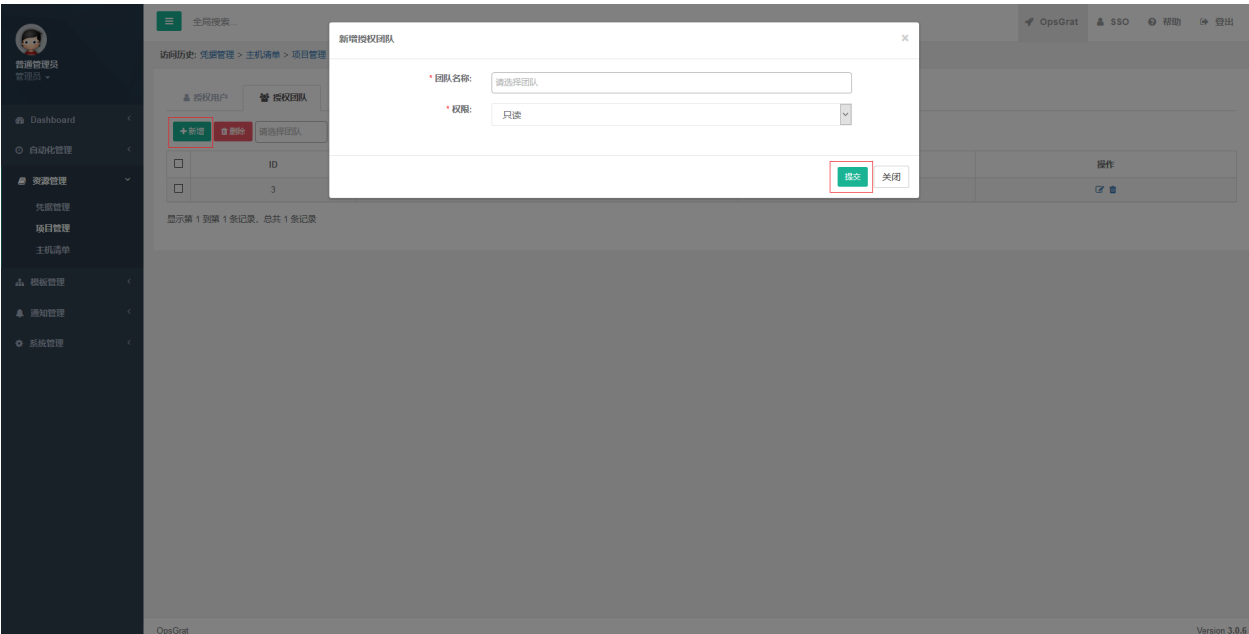


2.6.7



2.6.8





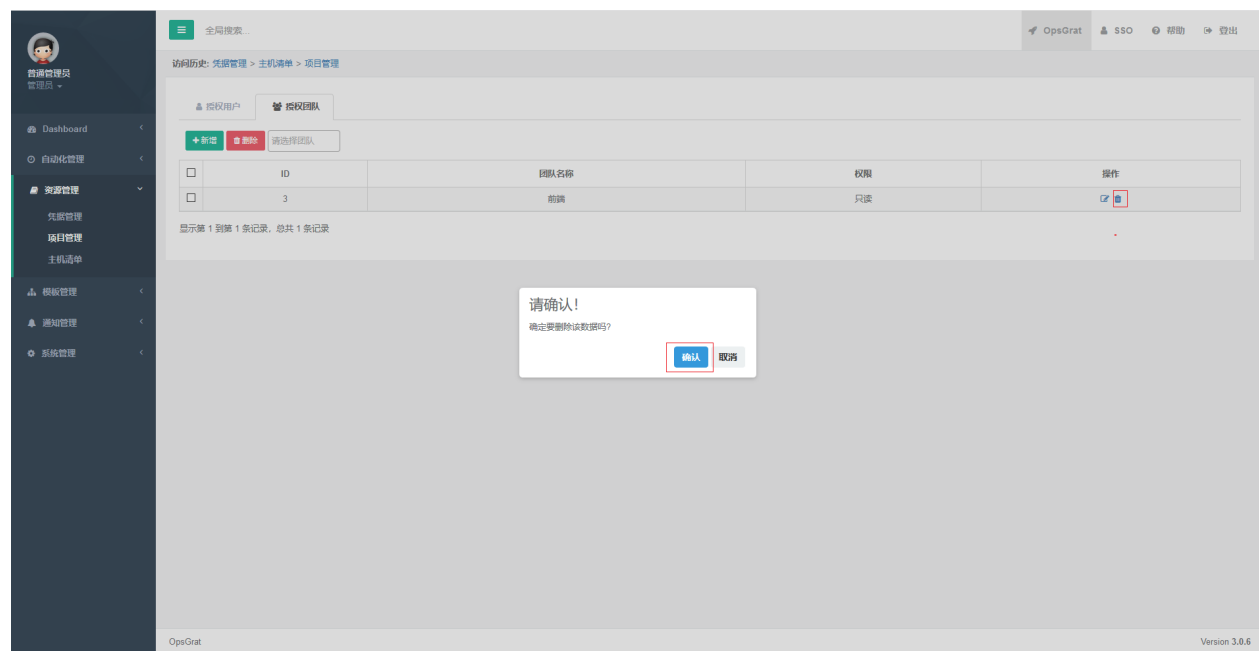
2.6.9

||



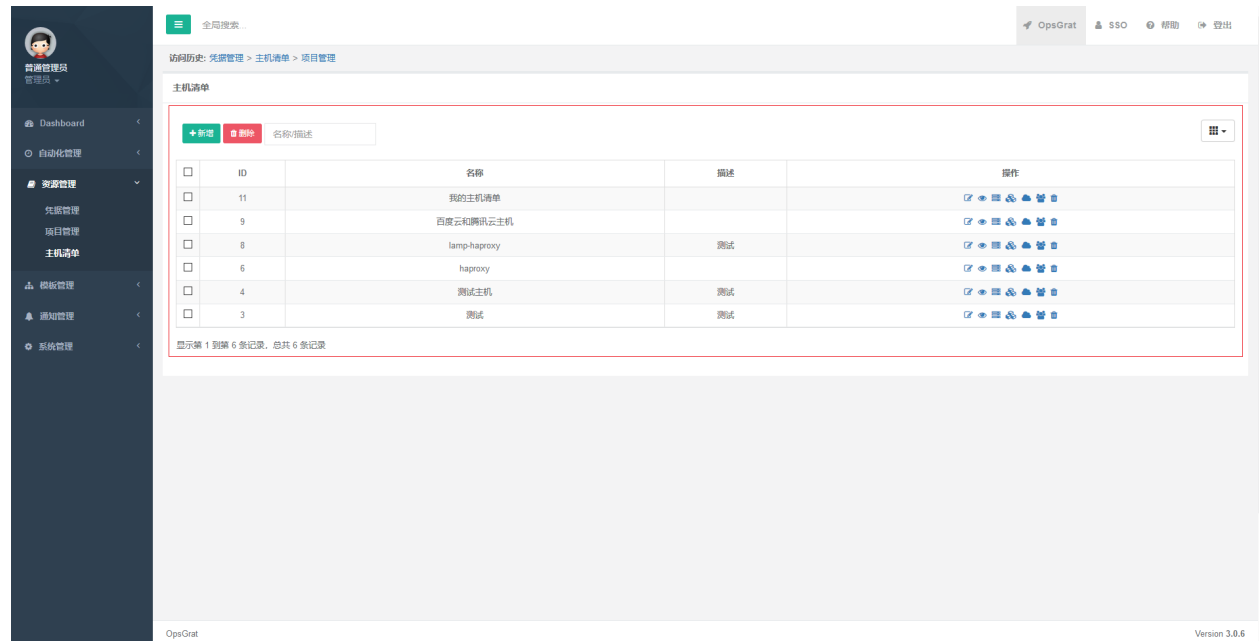
2.6.10

||



2.4.3

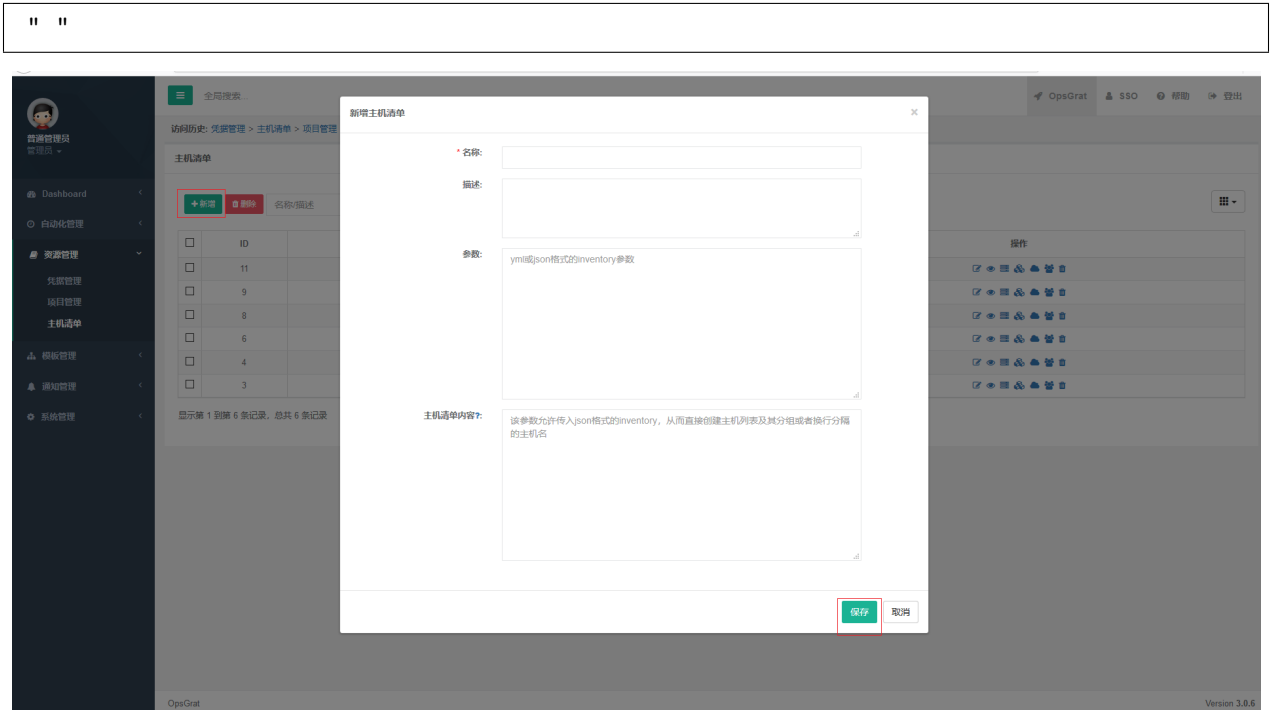
3.1



3.2



3.3

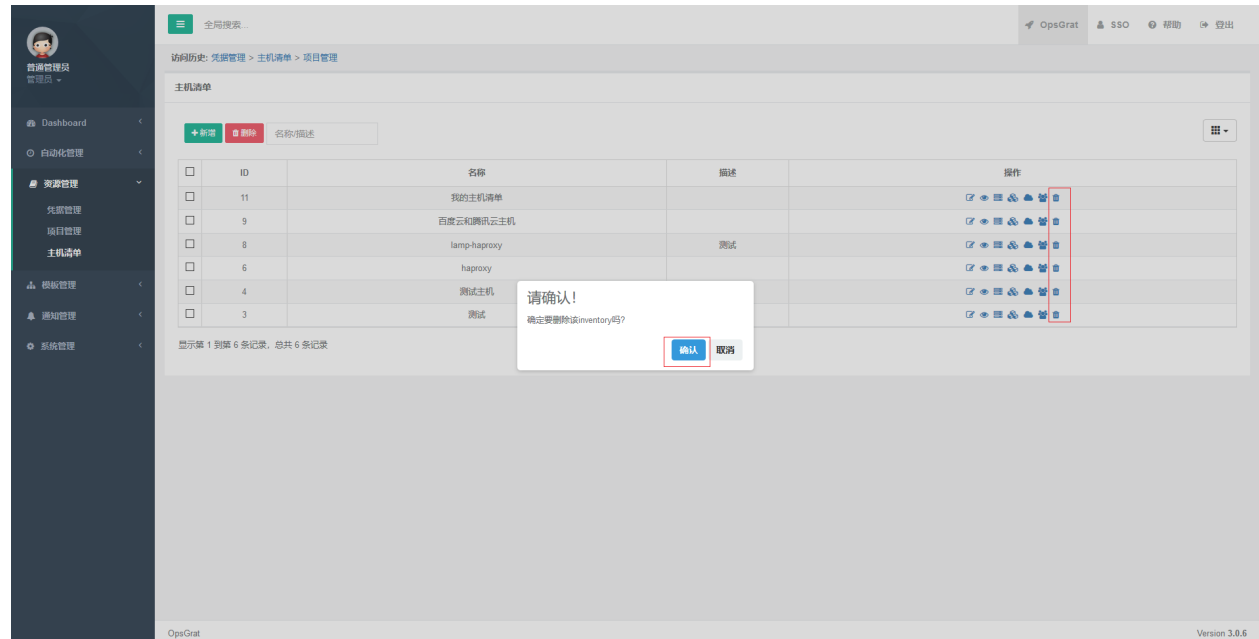


3.4





3.5



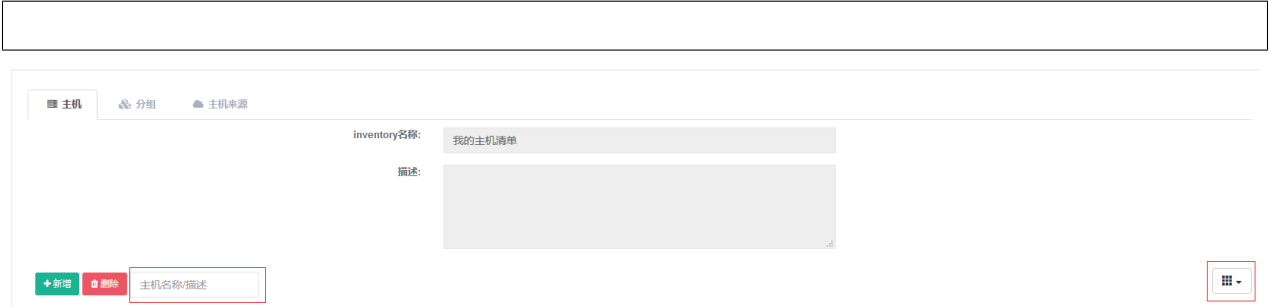
3.6



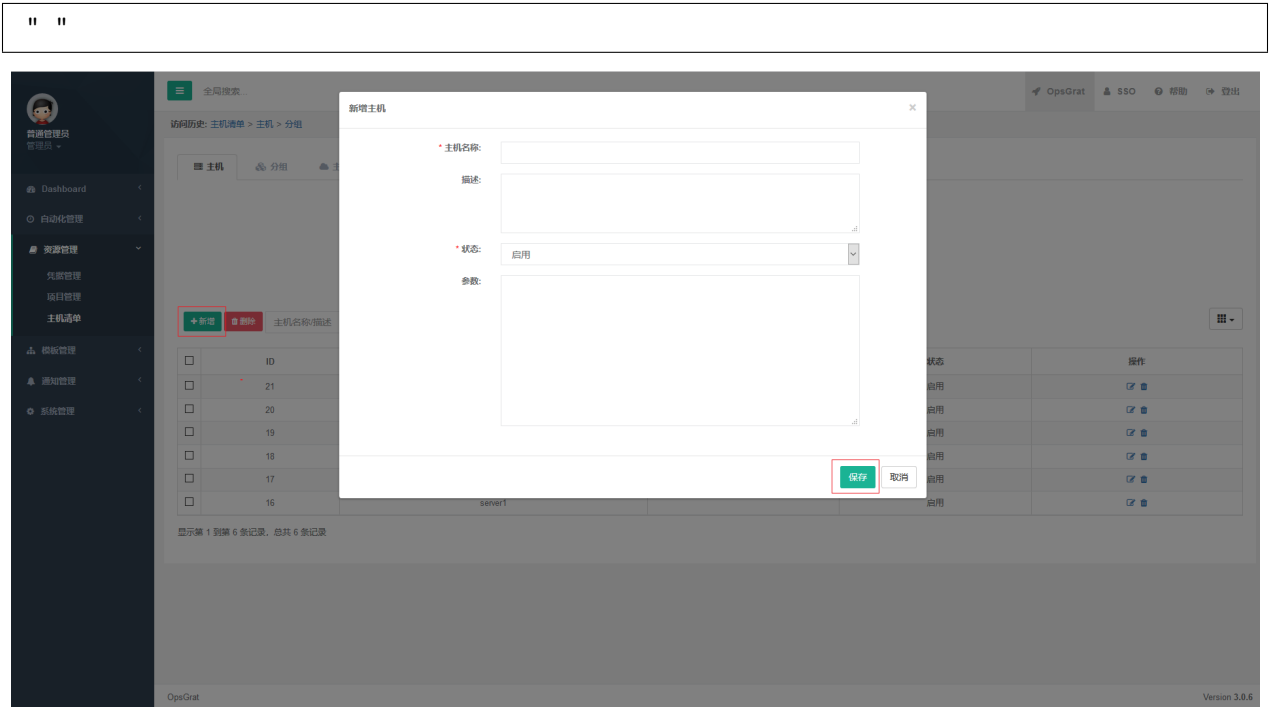
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" "	inventory
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3.7.1



3.7.2

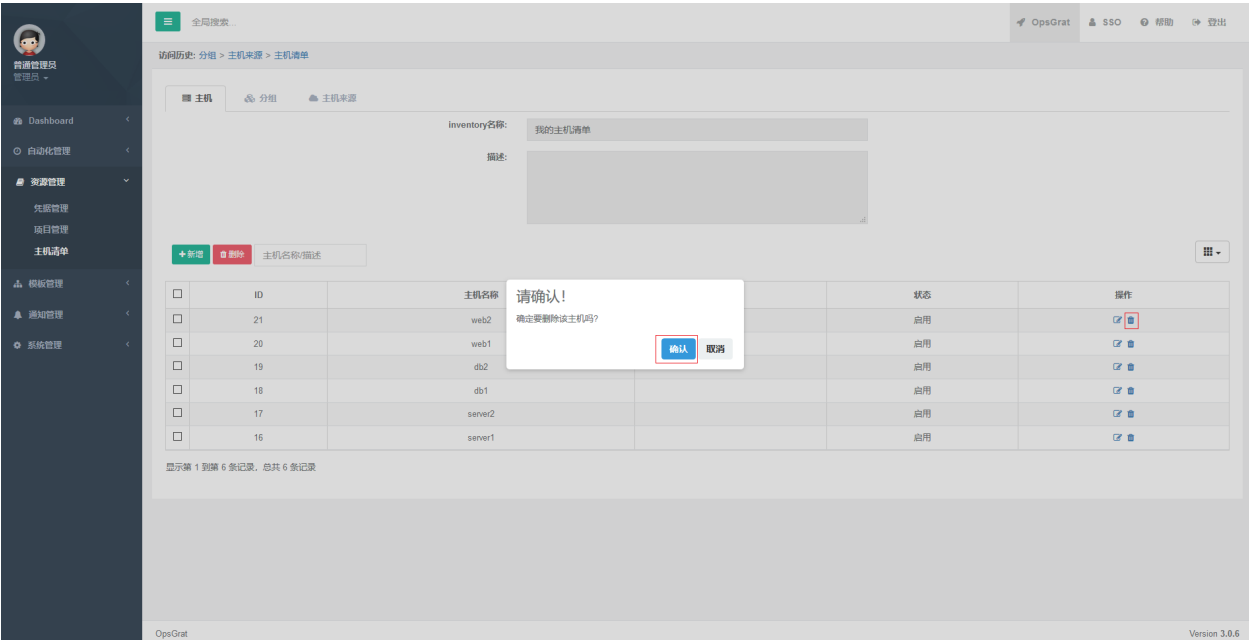


3.7.3



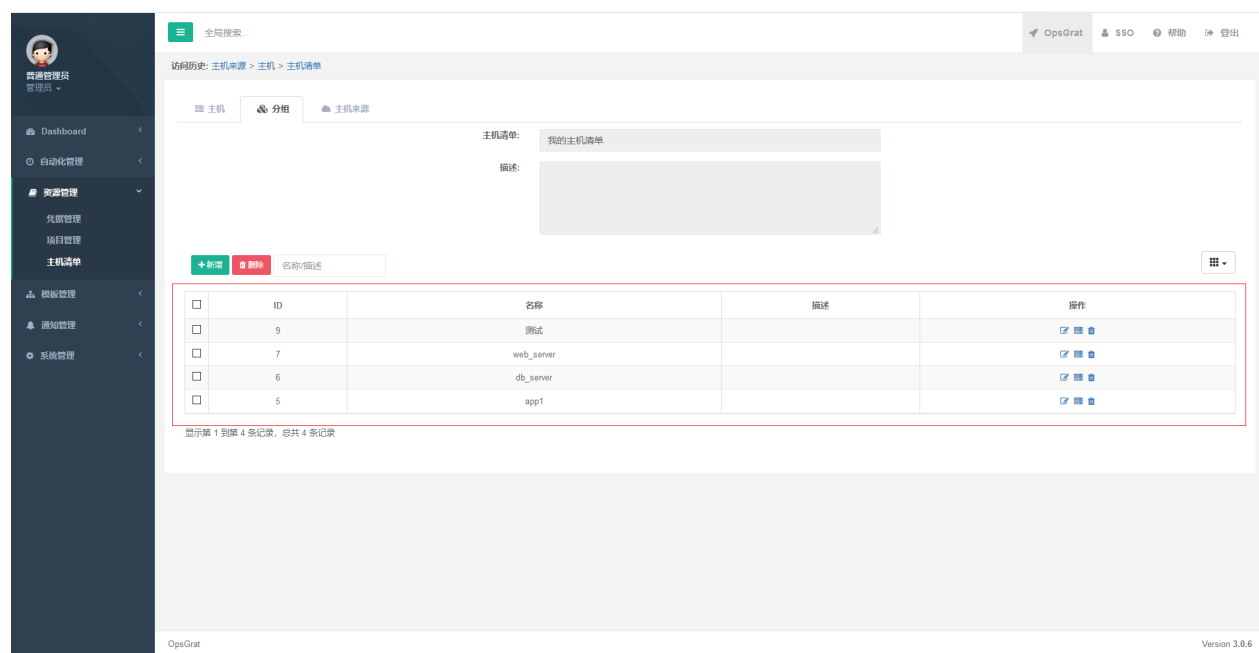


3.7.4

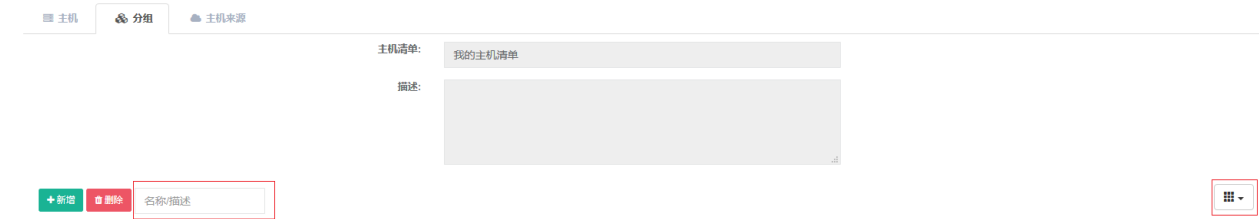


3.8



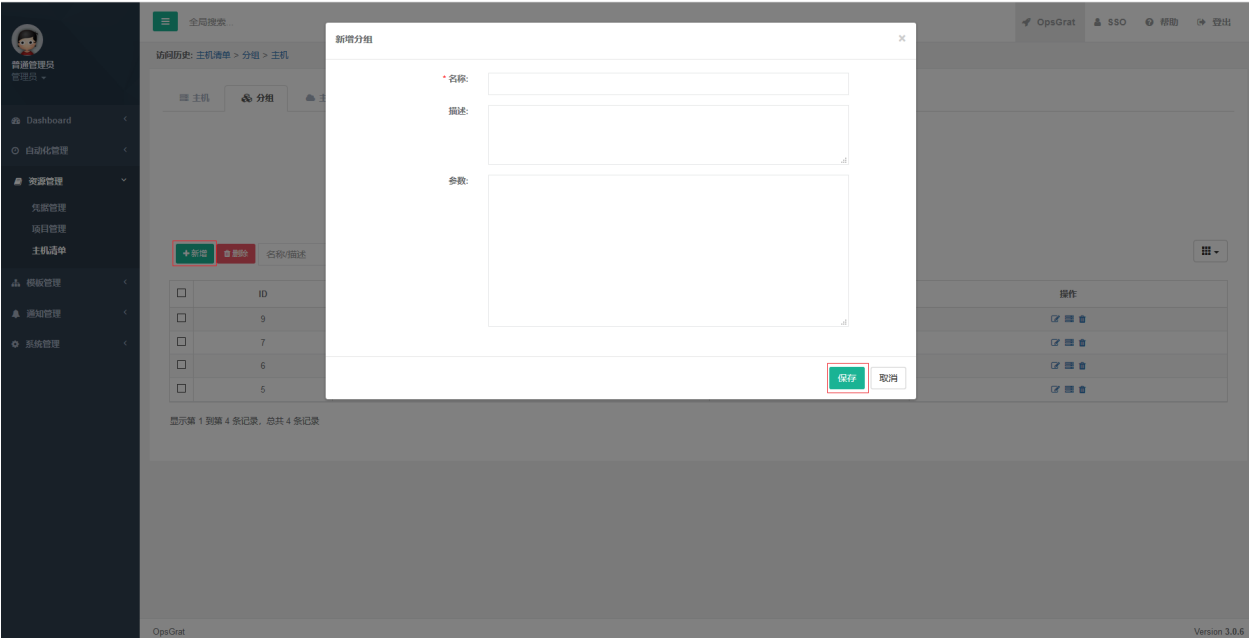


3.8.1



3.8.2



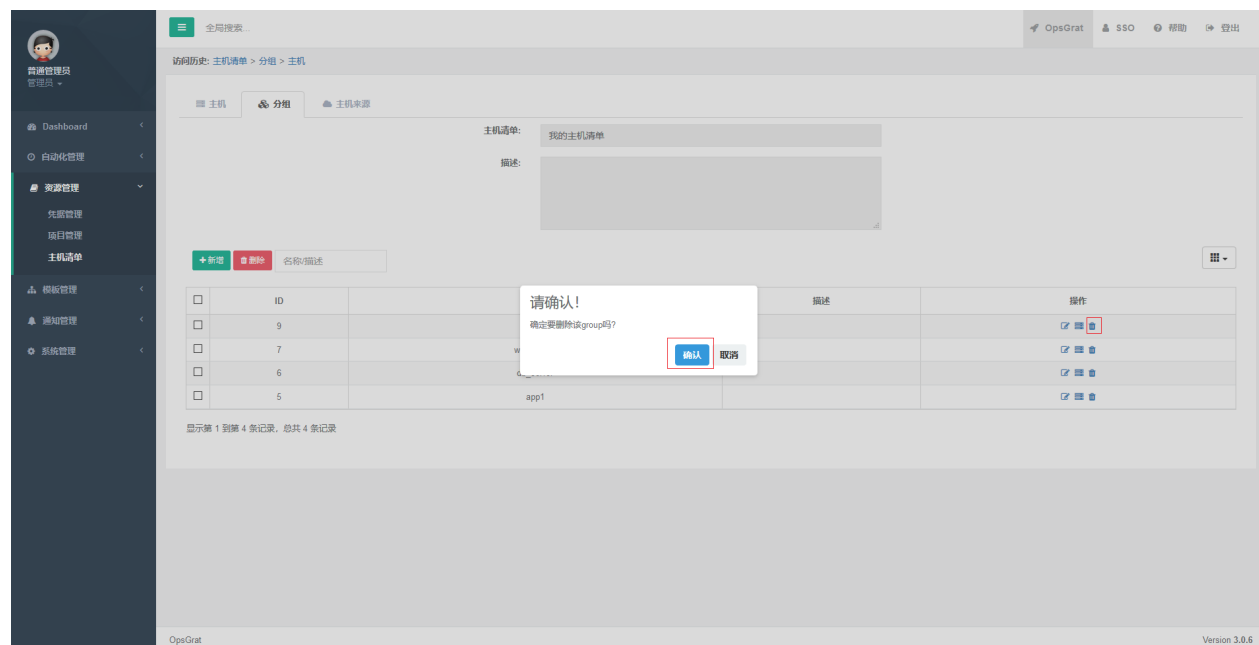


3.8.3

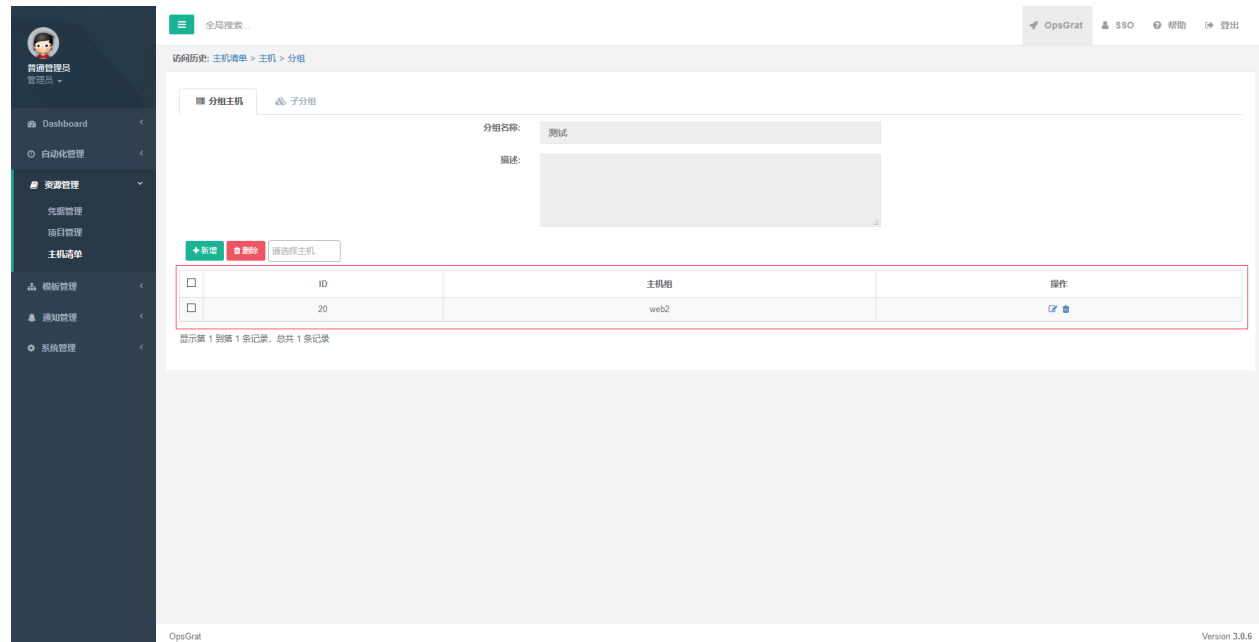
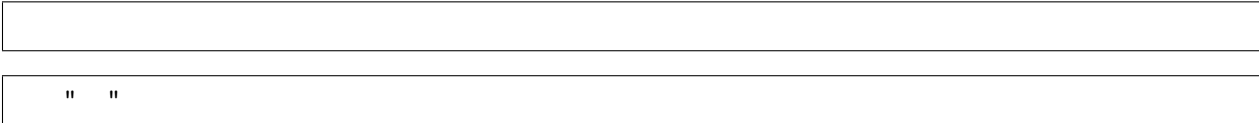


3.8.4

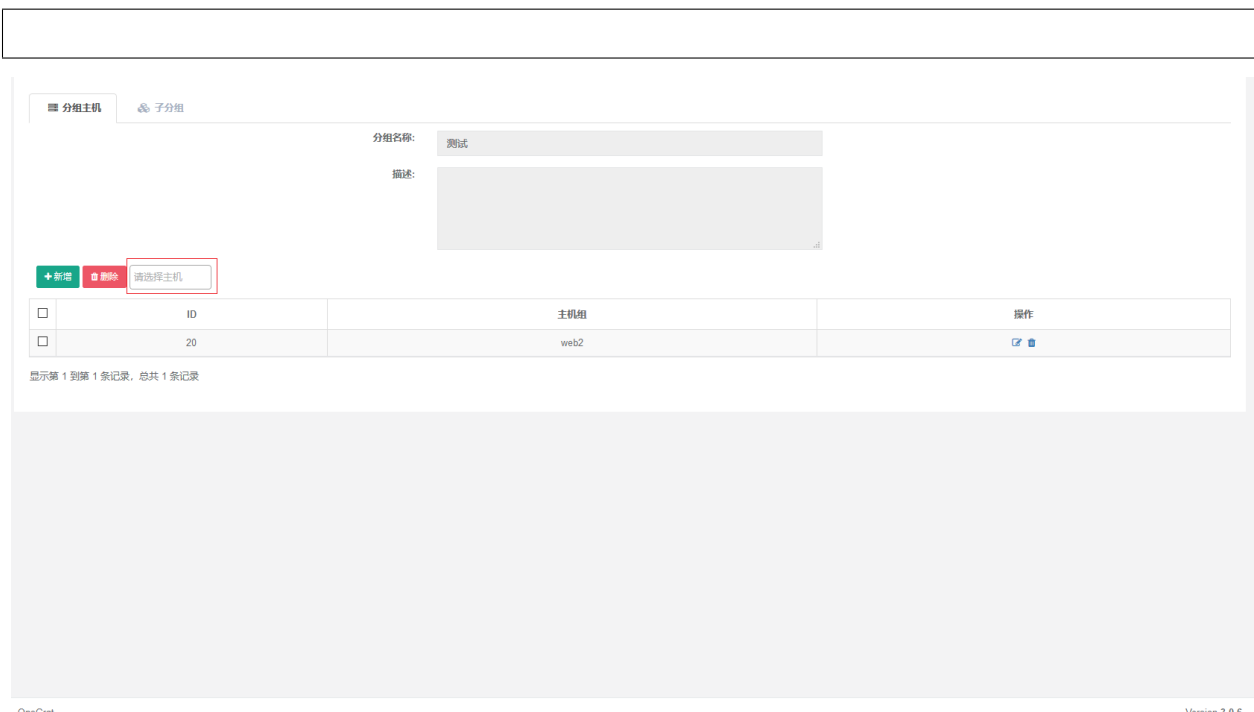




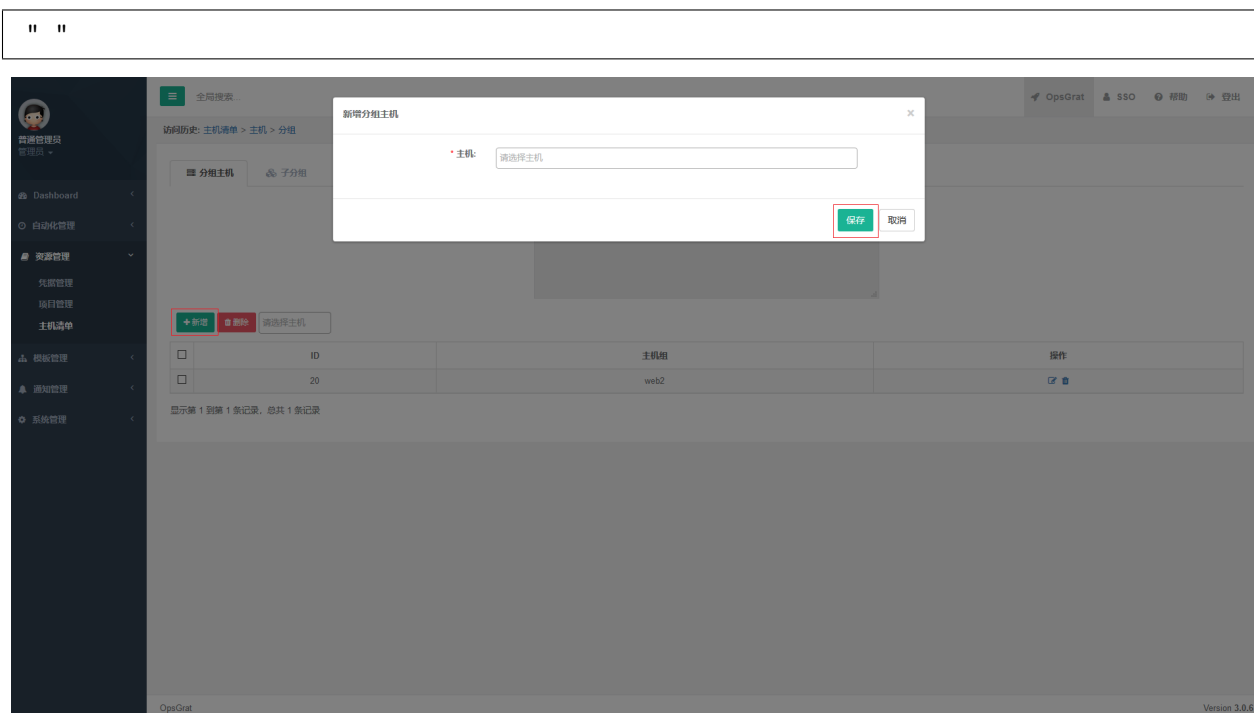
3.8.5



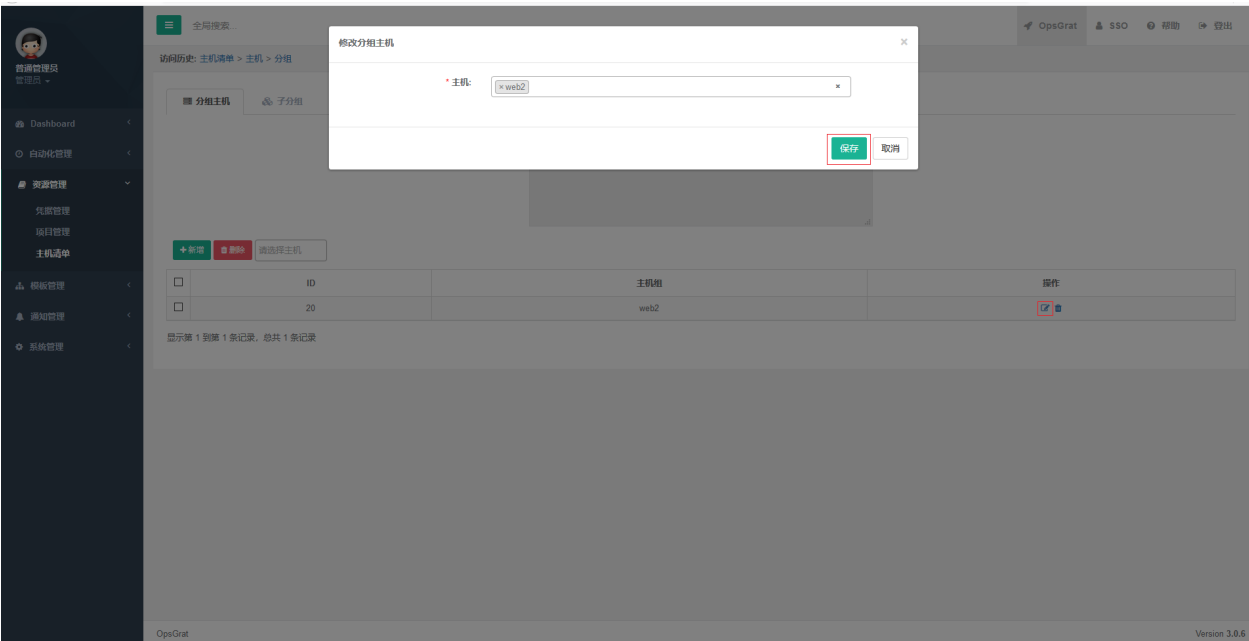
3.8.5.1



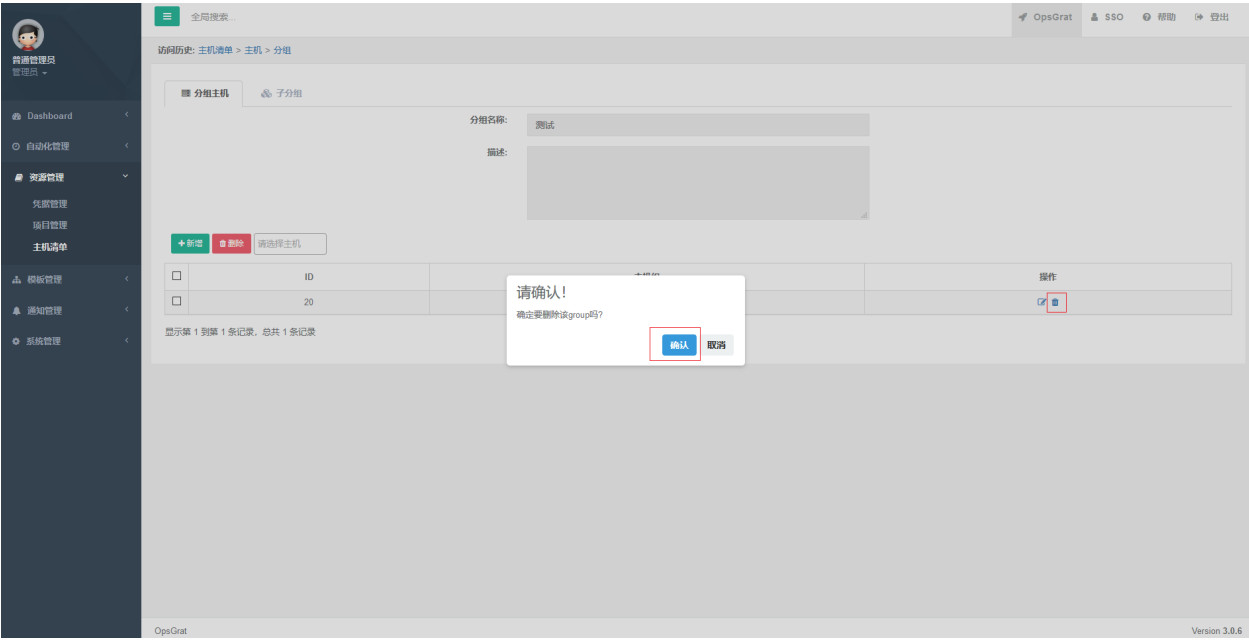
3.8.5.2



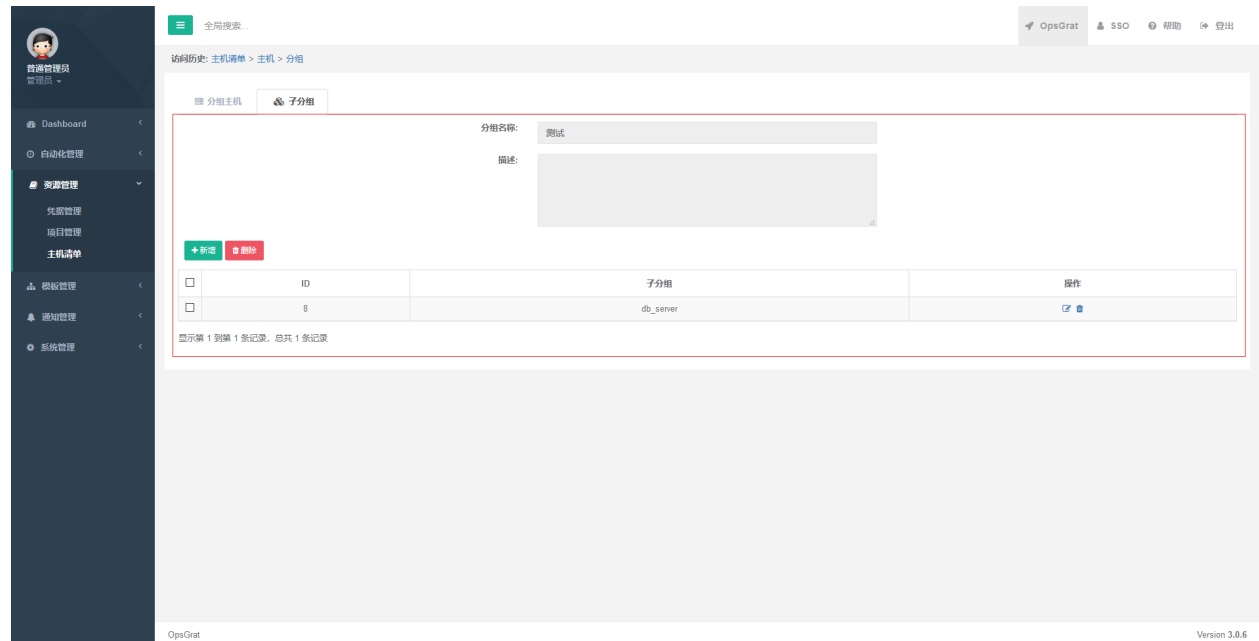
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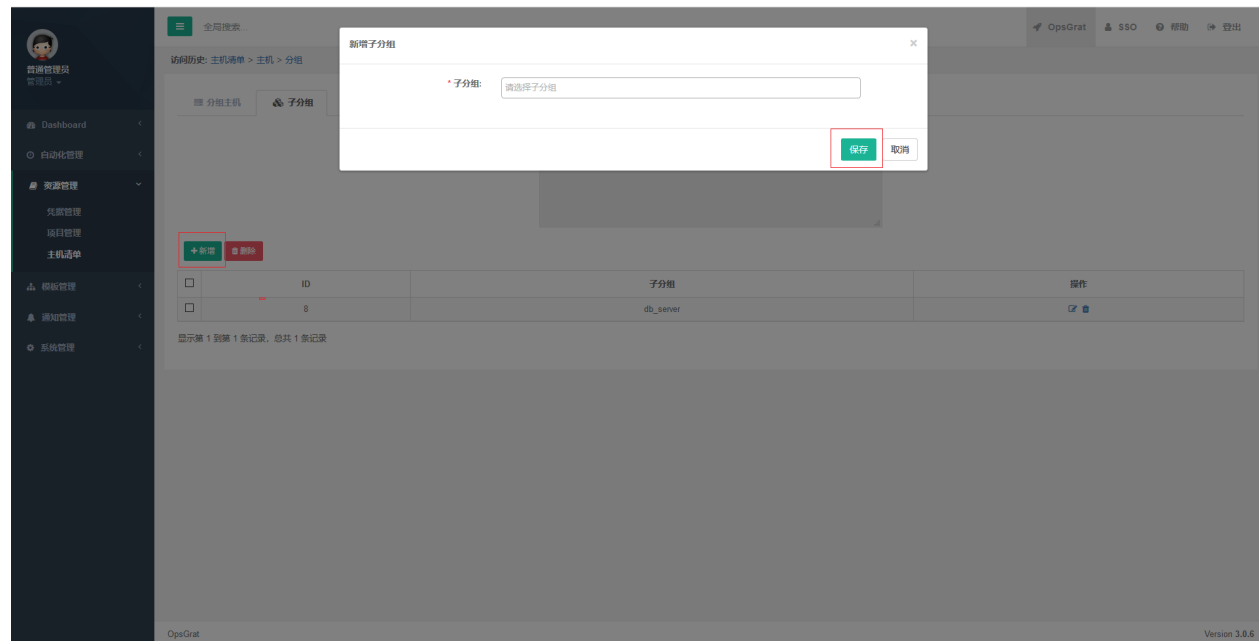
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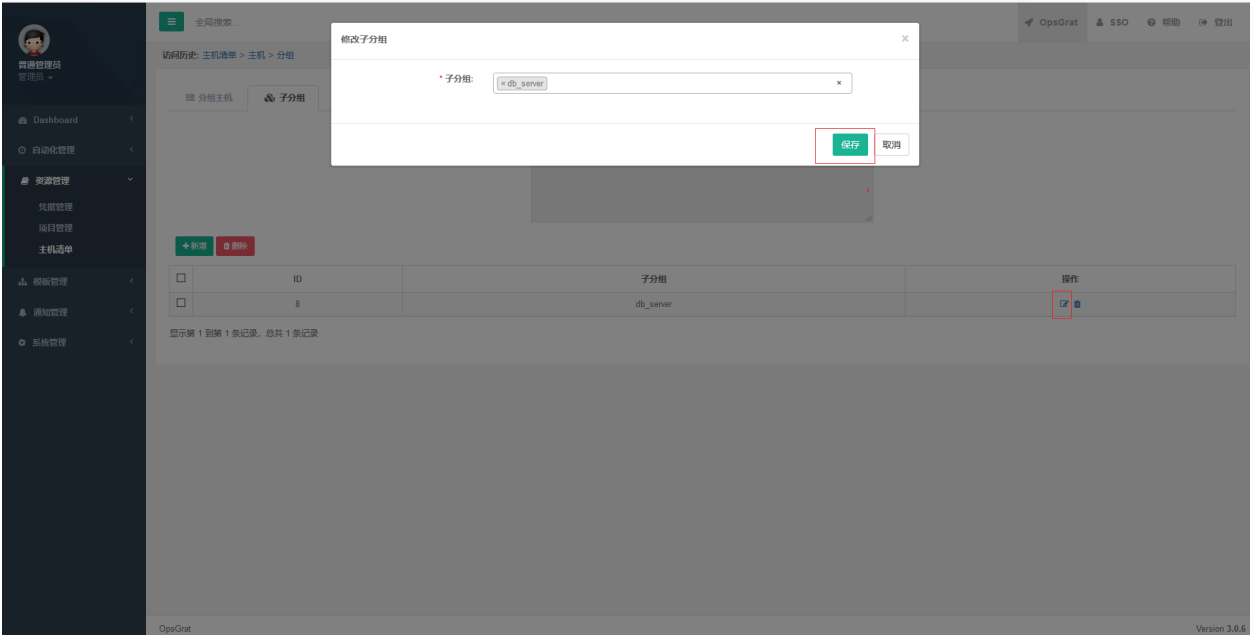
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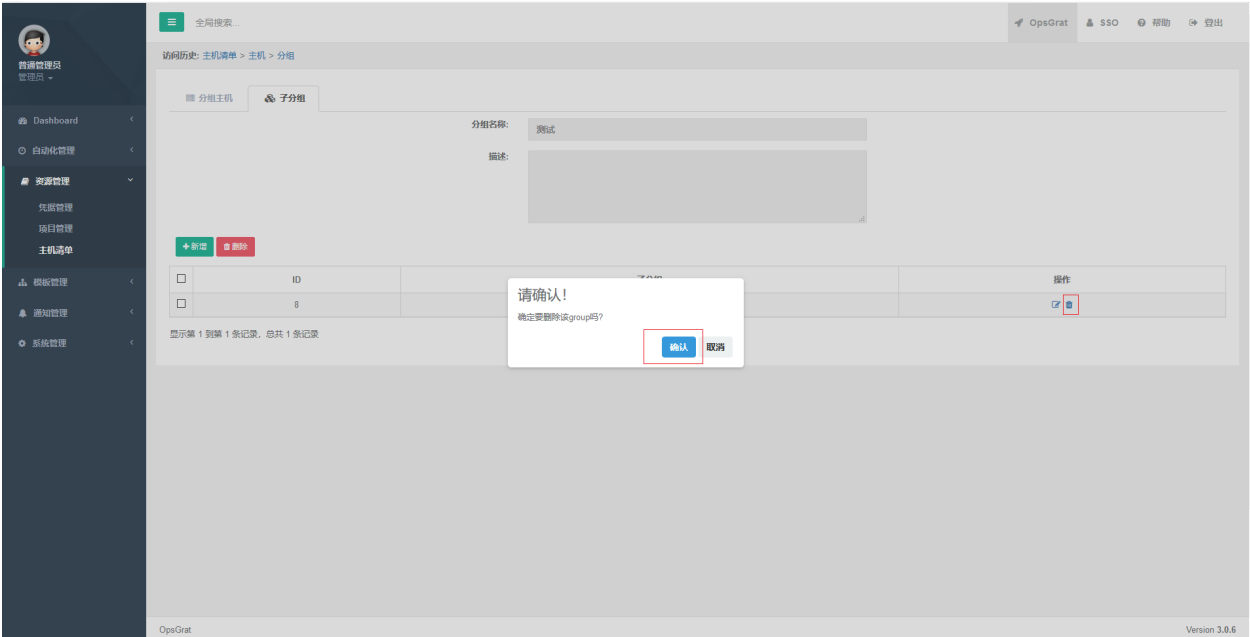
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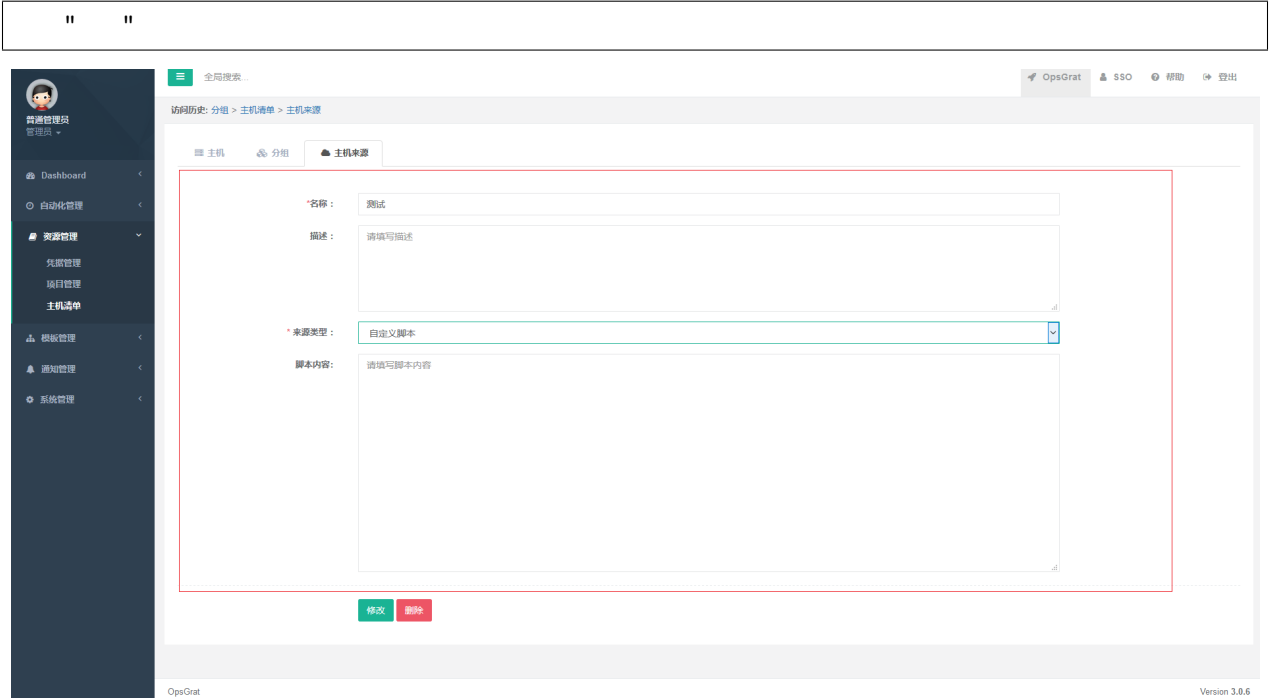
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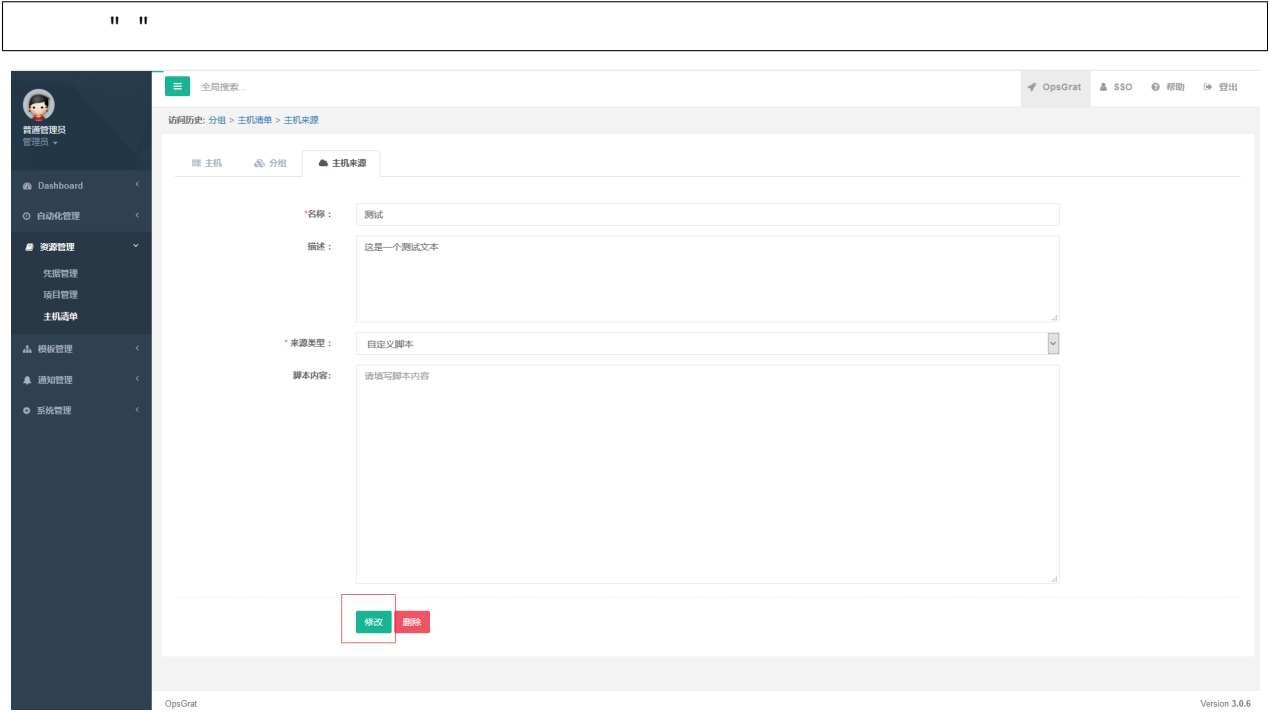
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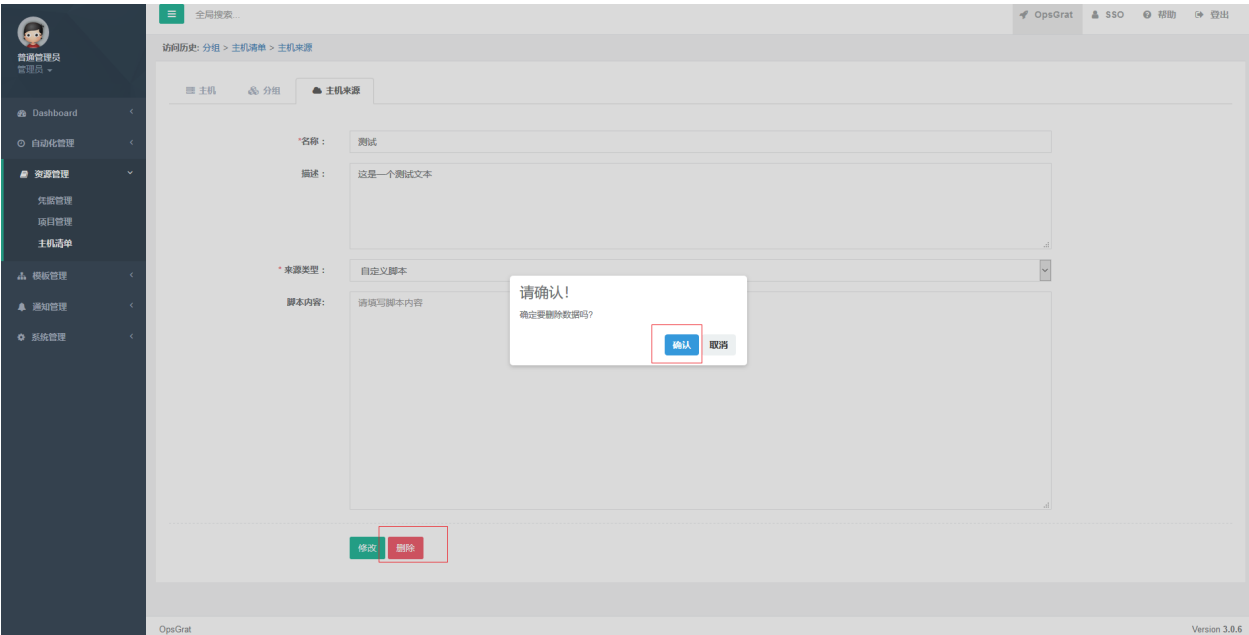
3.9



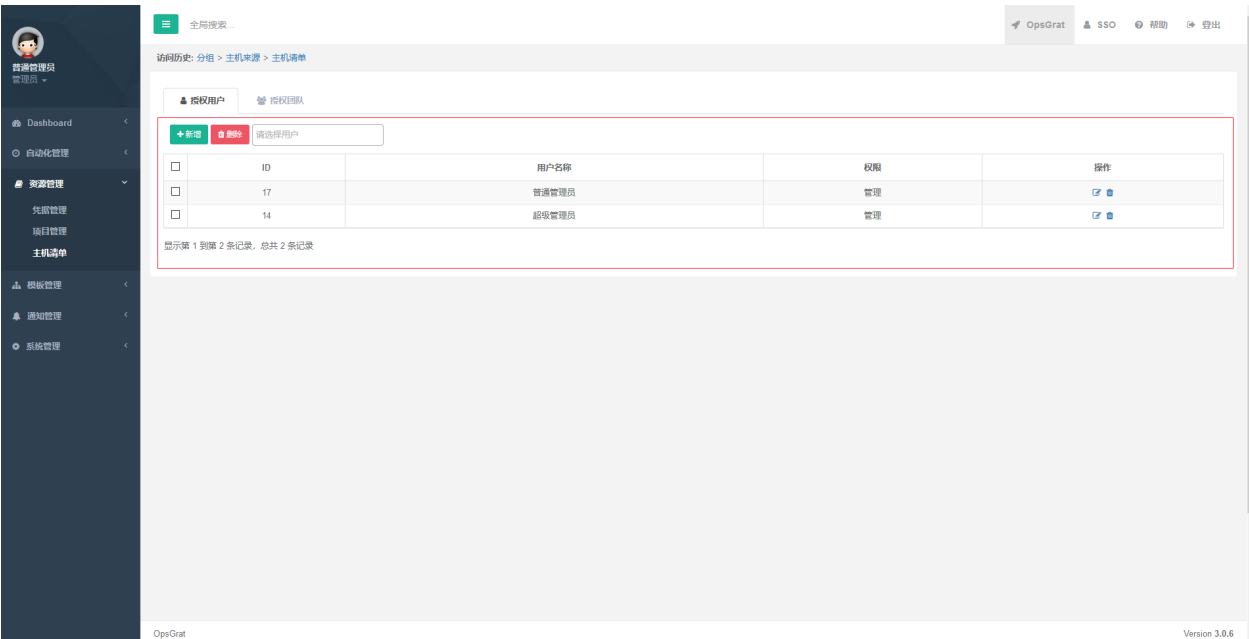
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3.9.2



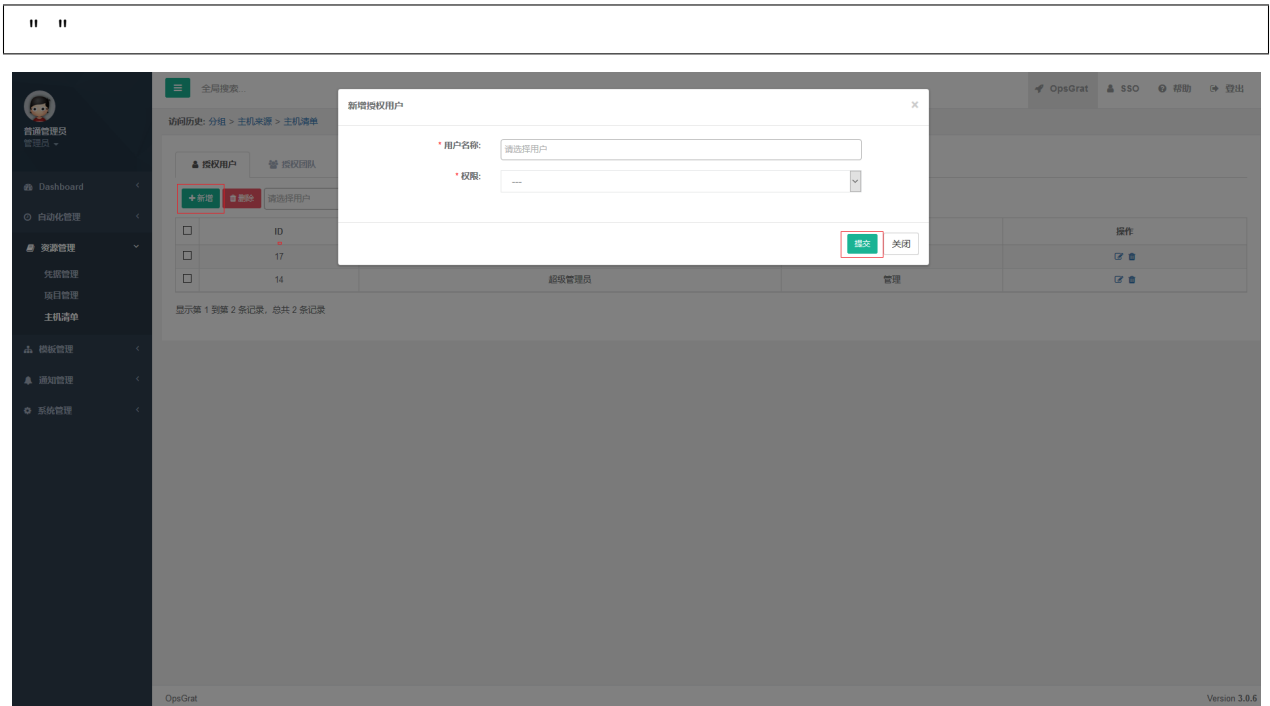
3.10



3.10.1

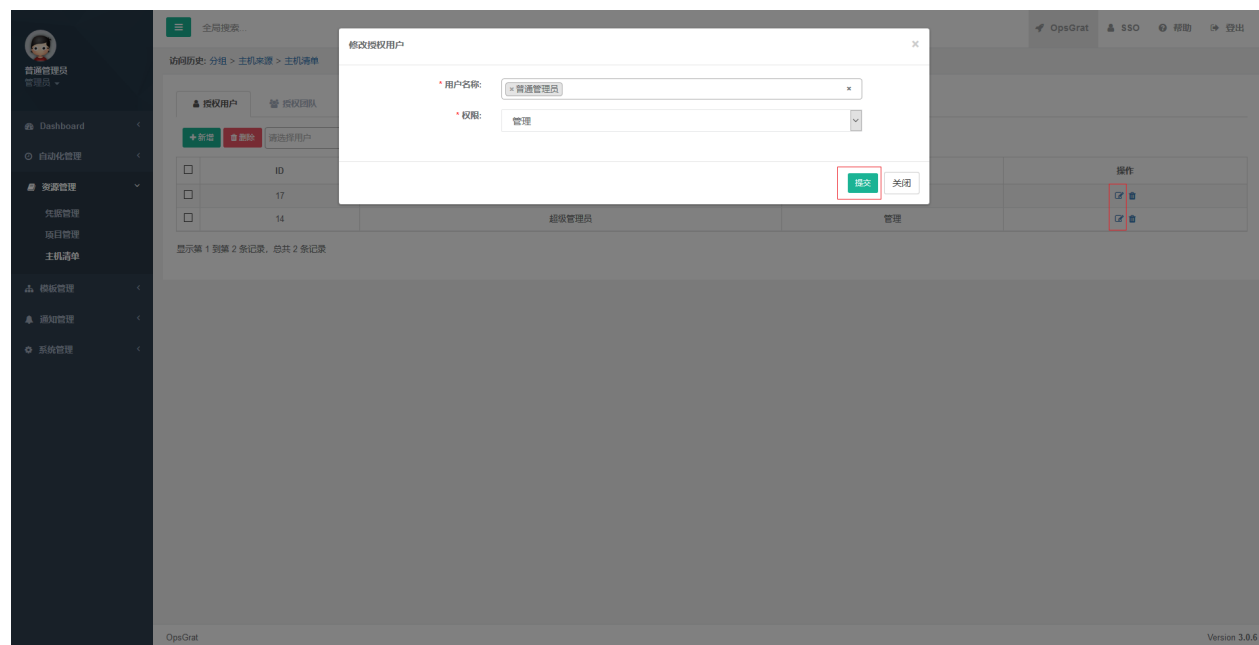


3.10.2

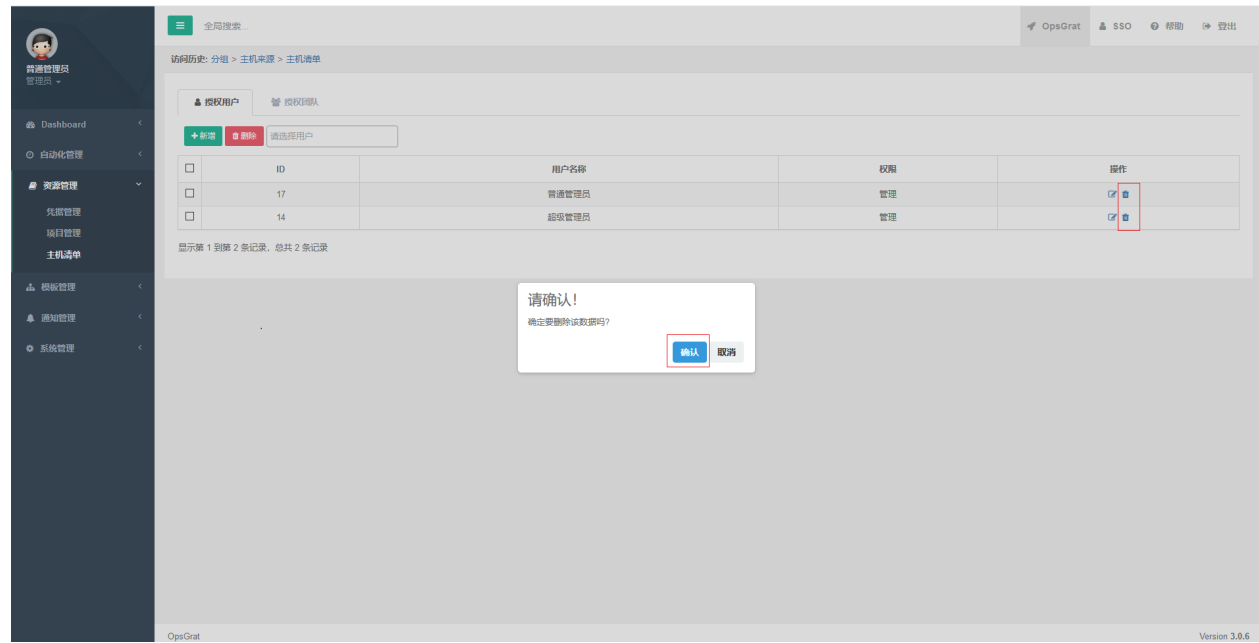
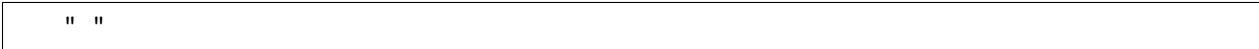


3.10.3



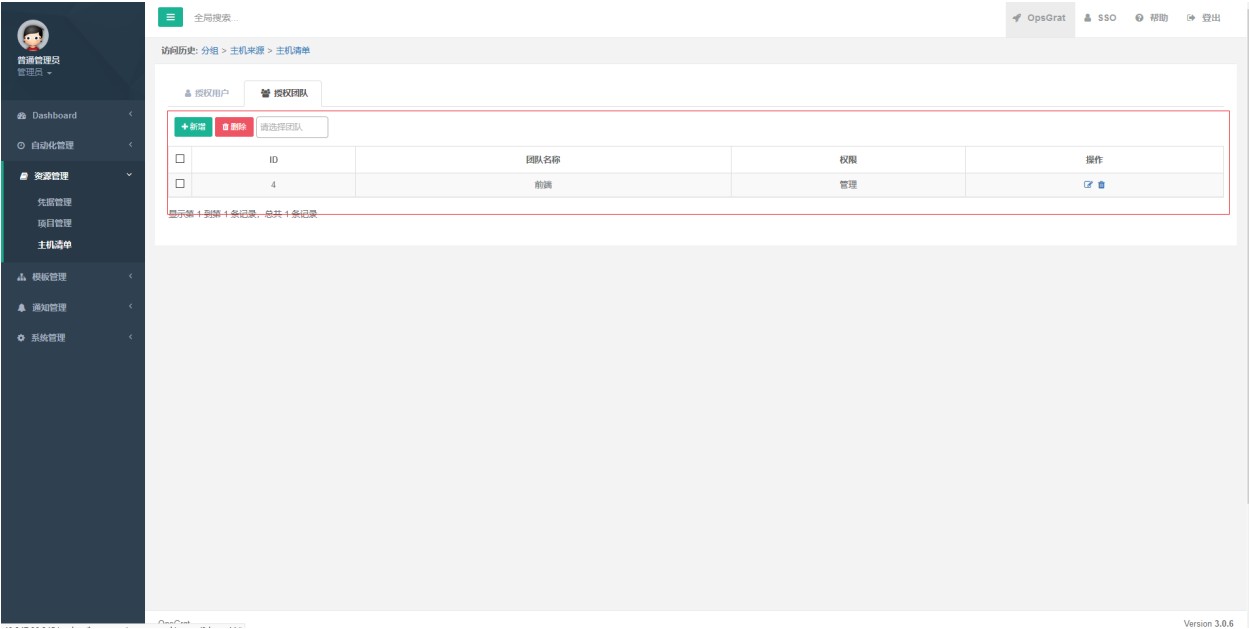


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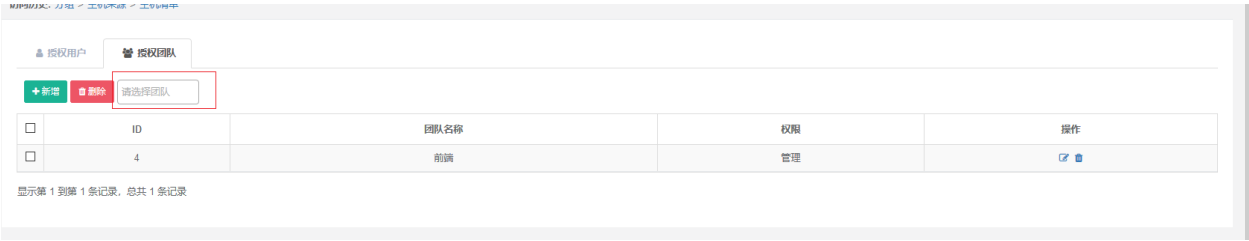


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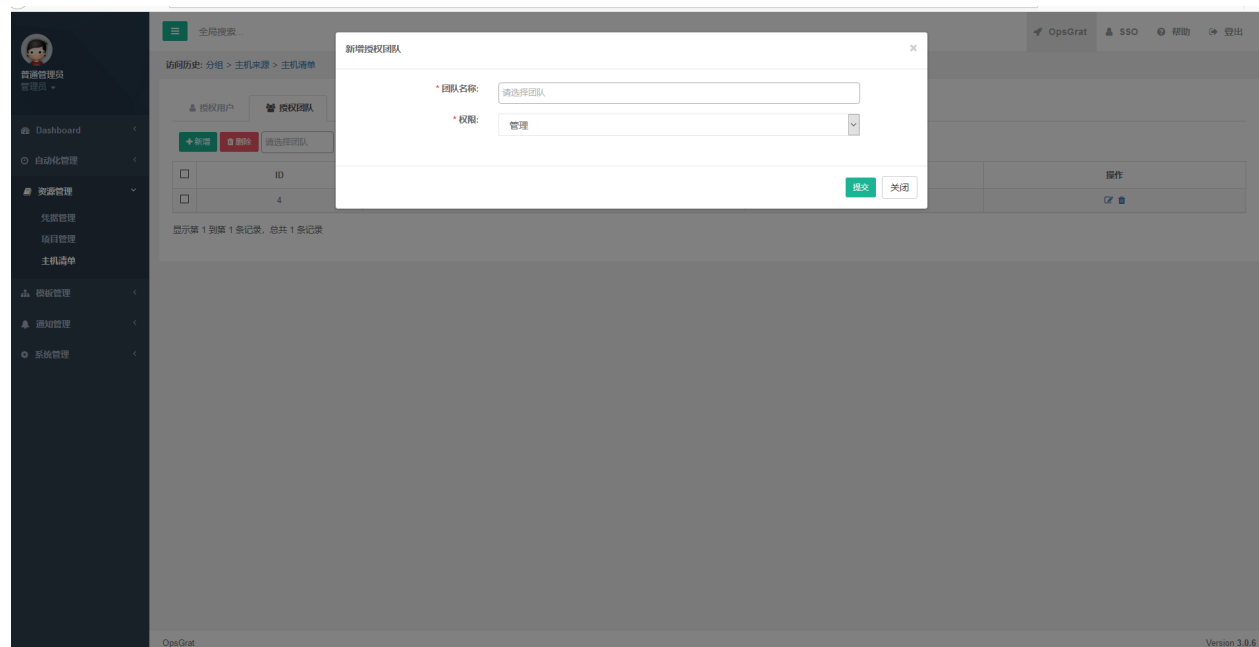


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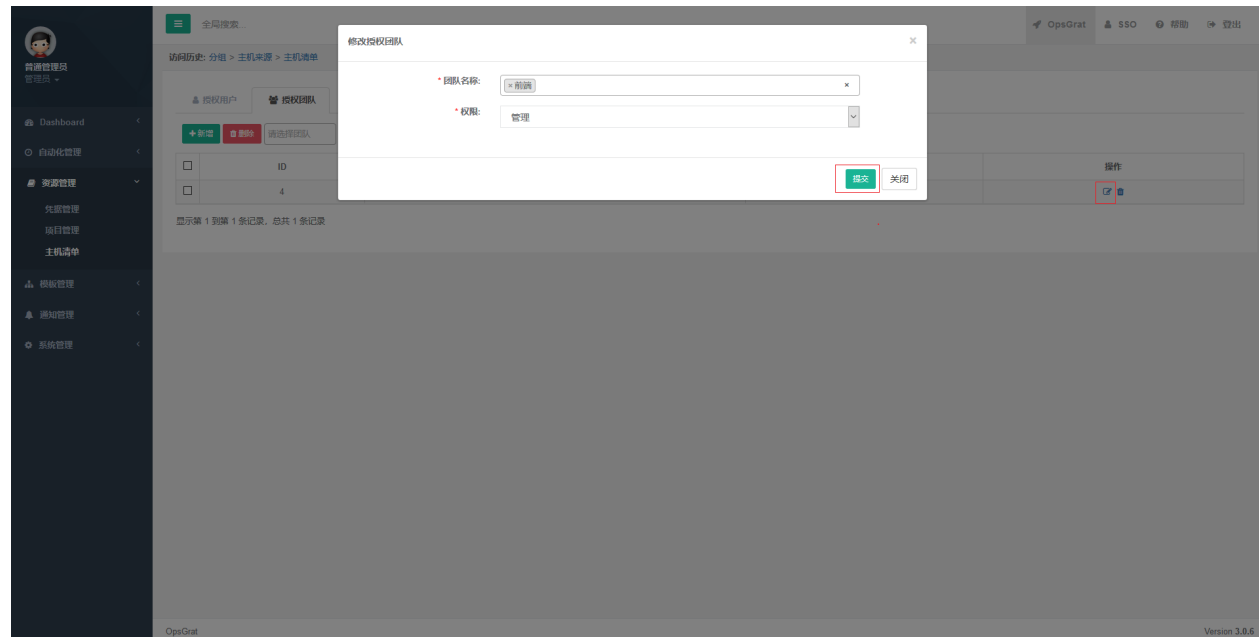


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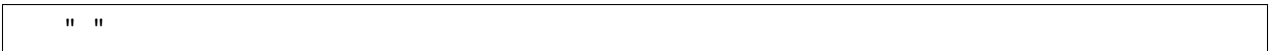


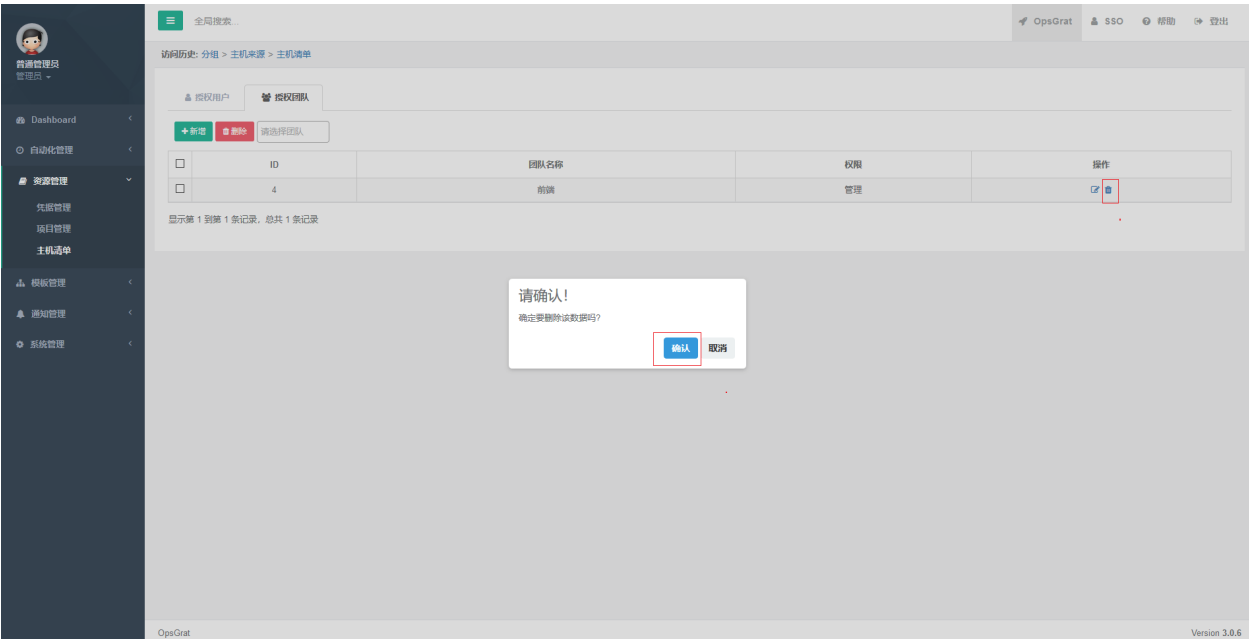


3.10.8



3.10.9

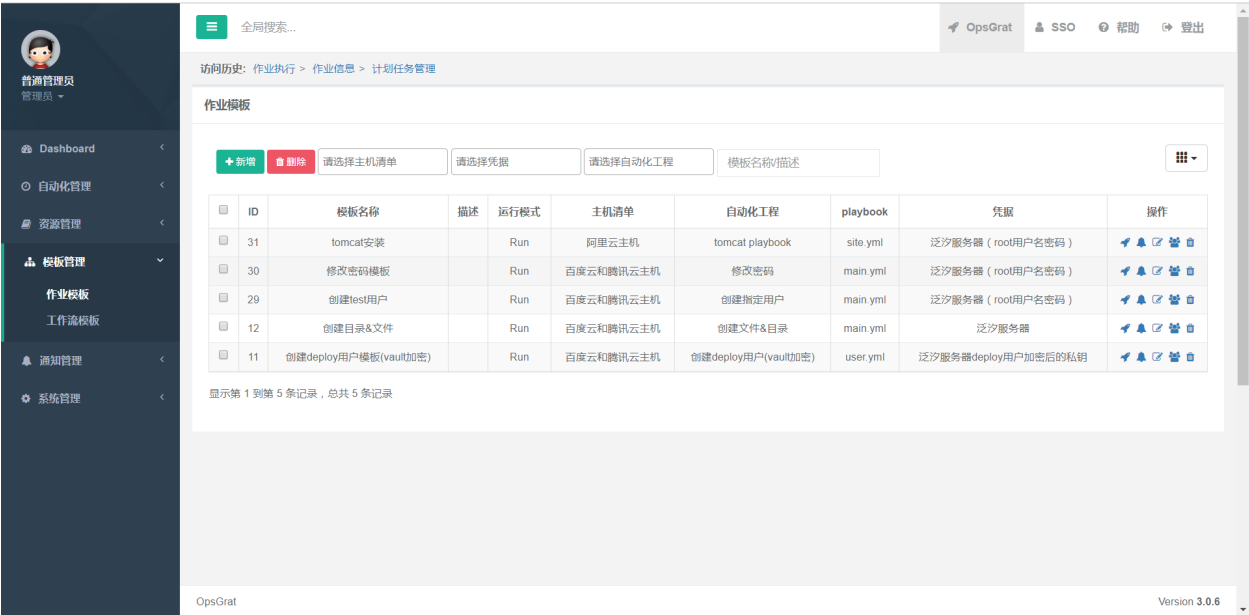




2.5

2.5.1

“ ” “ ” “ ” “ ”



((ssh) tags)

管理员

Dashboard

自动化管理

资源管理

模板管理

作业模板

工作流模板

通知管理

系统管理

保存

* 模板名称: 安装tomcat

* 主机清单: 阿里云主机

* playbook: site.yml

* forks: 0

skip_tags: 请选择skip_tags

* 是否允许切换用户: 否

* 是否强制运行handlers任务: 否

limit: 请填写limit

扩展参数: # Here are variables related to the tomcat installation
http_port: 8080
https_port: 8443

This will configure a default manager-gui user:

admin_username: admin
admin_password: admin

tomcat_downloadURL: http://mirror.bit.edu.cn/apache

* 运行模式: Run

* 自动化项目: tomcat playbook

* 登录凭据(ssh): 泛汐服务器 (root用户名密码)

tags: 请选择tags

* Debug级别: Normal

* 是否使用diff模块: 否

开始任务:

OpsGratVersion 3.0.6

普通管理员

管理员

Dashboard

自动化管理

资源管理

模板管理

作业模板

工作流模板

通知管理

系统管理

全局搜索...

OpsGratSSO帮助退出

访问历史: 作业模板 > 修改模板 > 新增模板

作业模板

+ 新增

删除

阿里云主机

请选择凭据

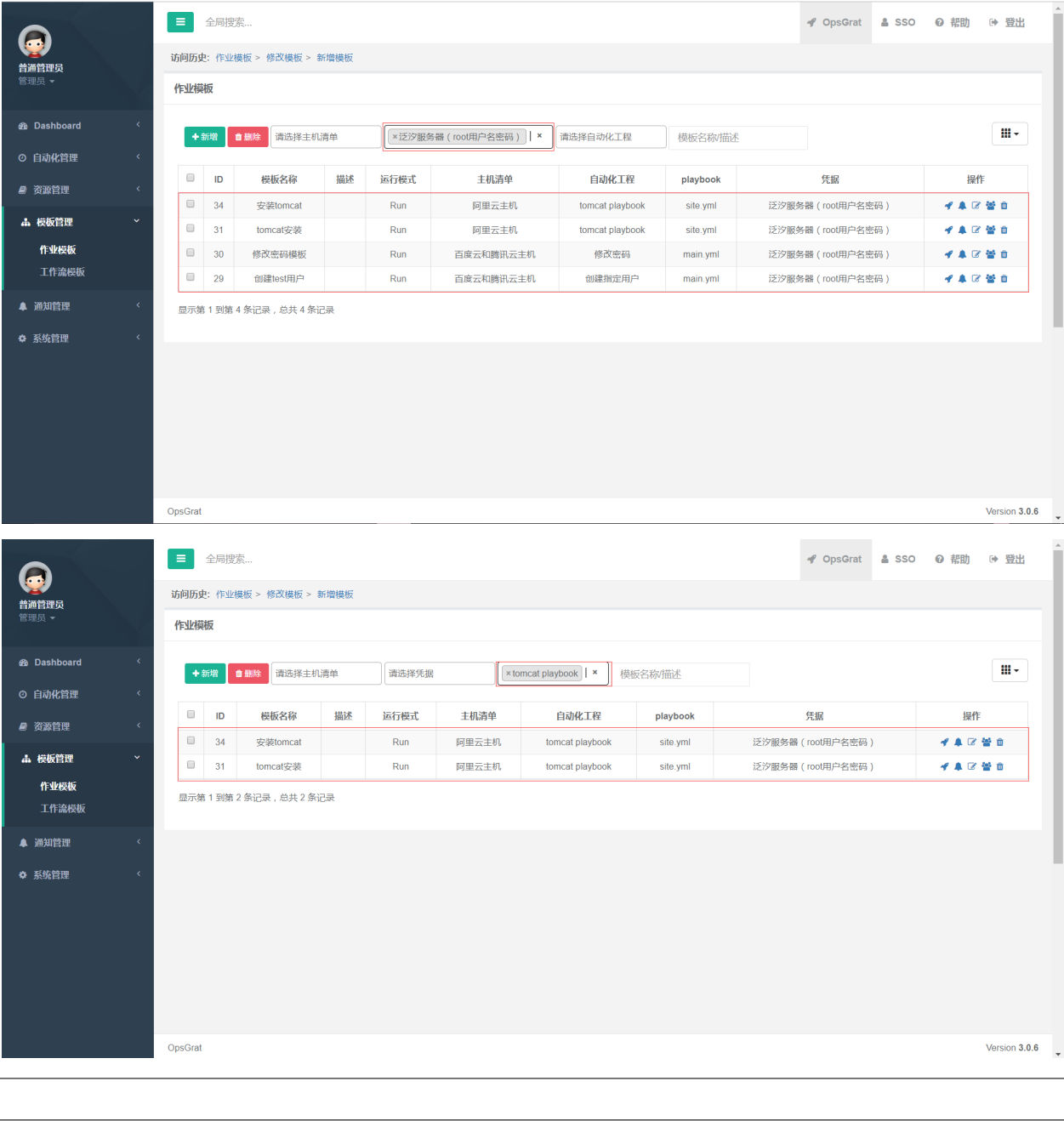
请选择自动化工程

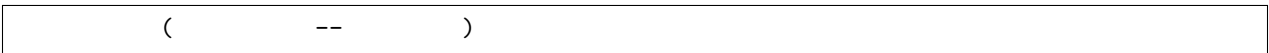
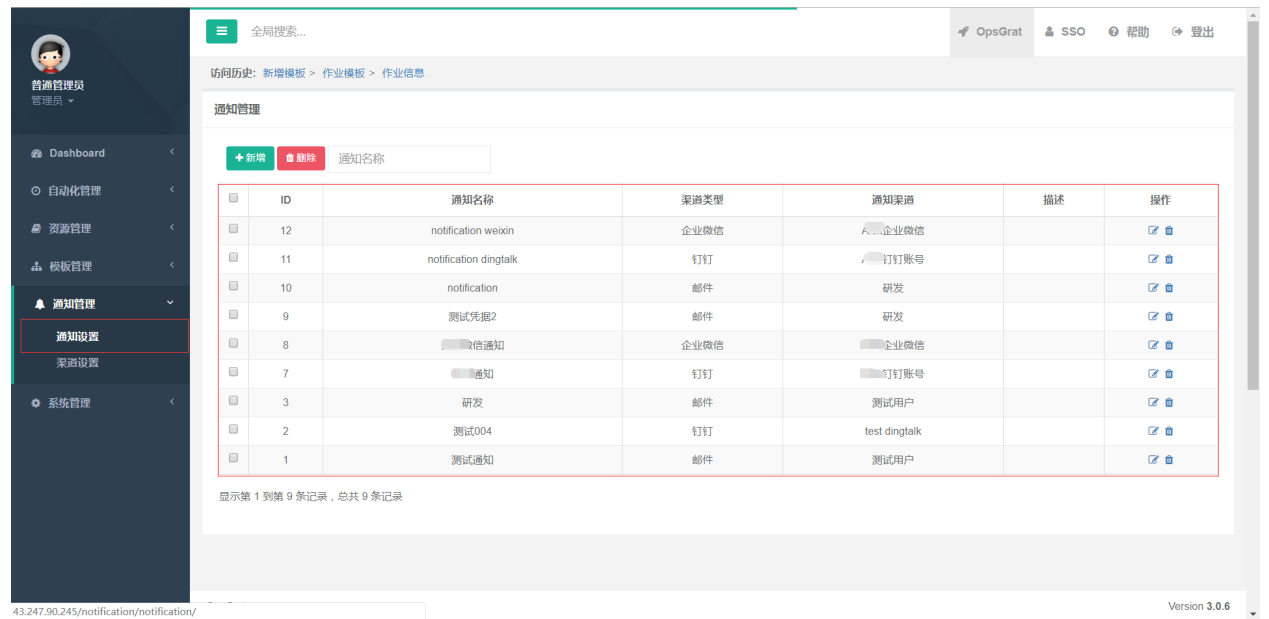
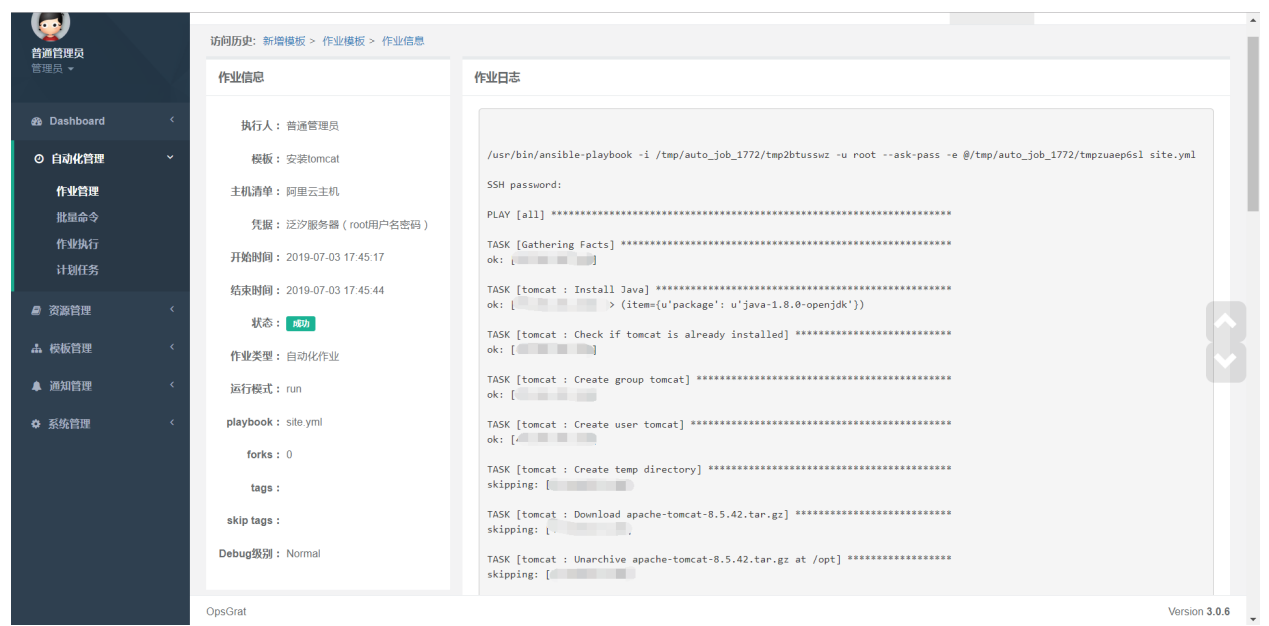
模板名称/描述

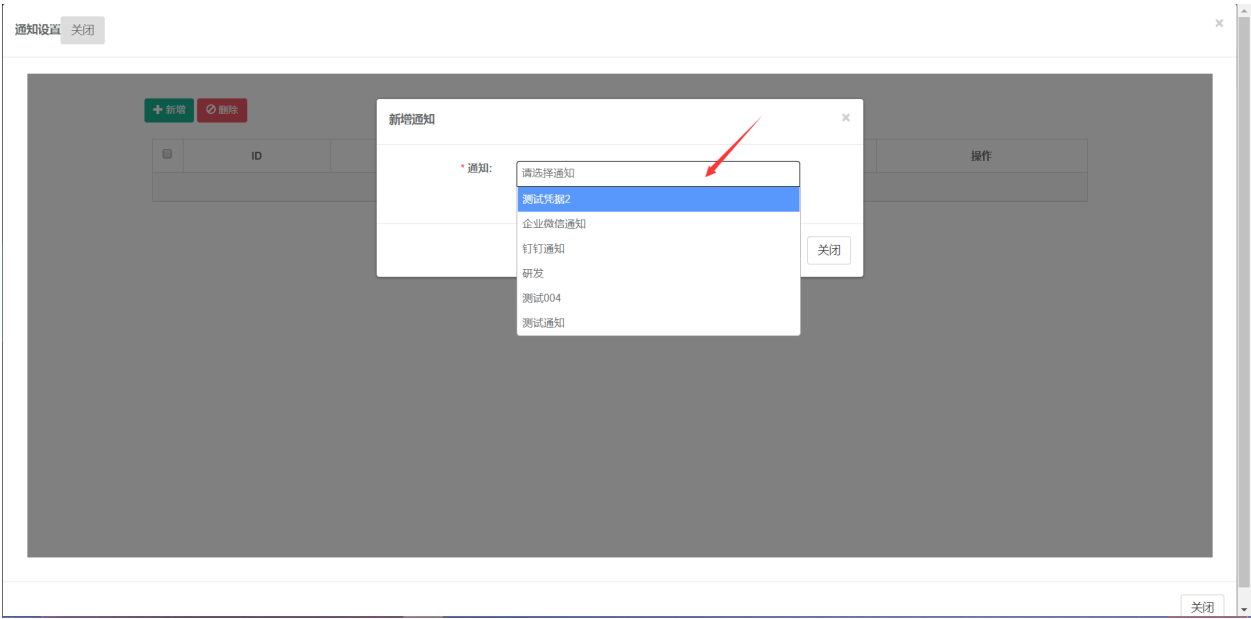
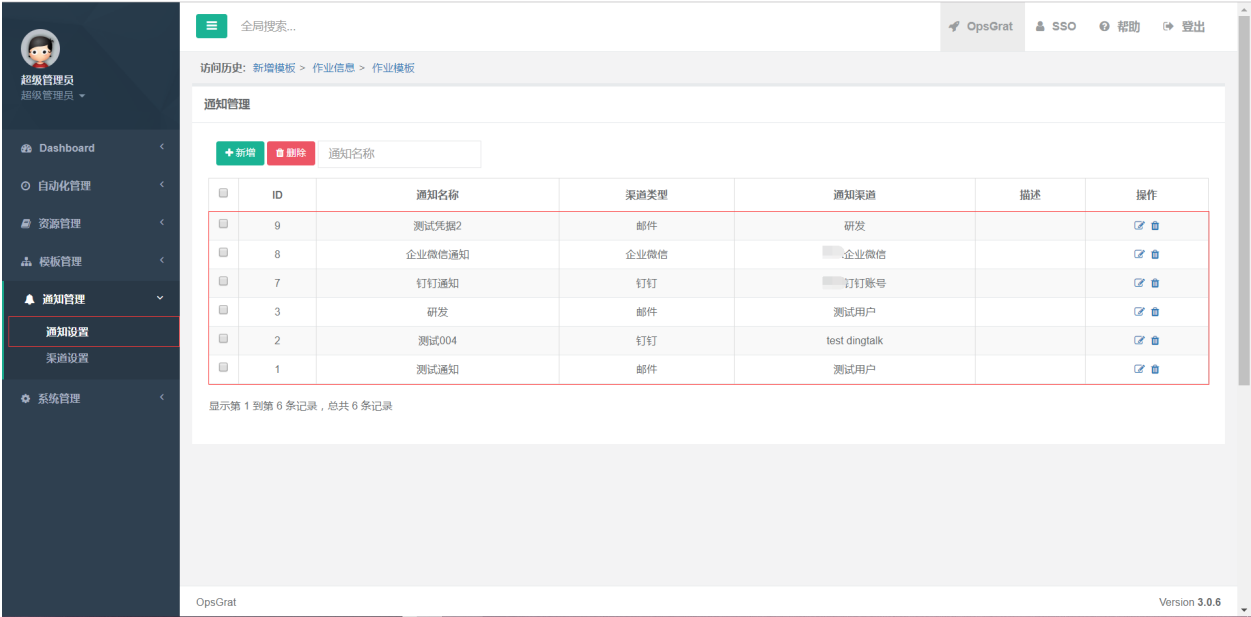
ID	模板名称	描述	运行模式	主机清单	自动化工程	playbook	凭据	操作
34	安装tomcat		Run	阿里云主机	tomcat playbook	site.yml	泛汐服务器 (root用户名密码)	🔍 🔔 🔗 🗑️
31	tomcat安装		Run	阿里云主机	tomcat playbook	site.yml	泛汐服务器 (root用户名密码)	🔍 🔔 🔗 🗑️

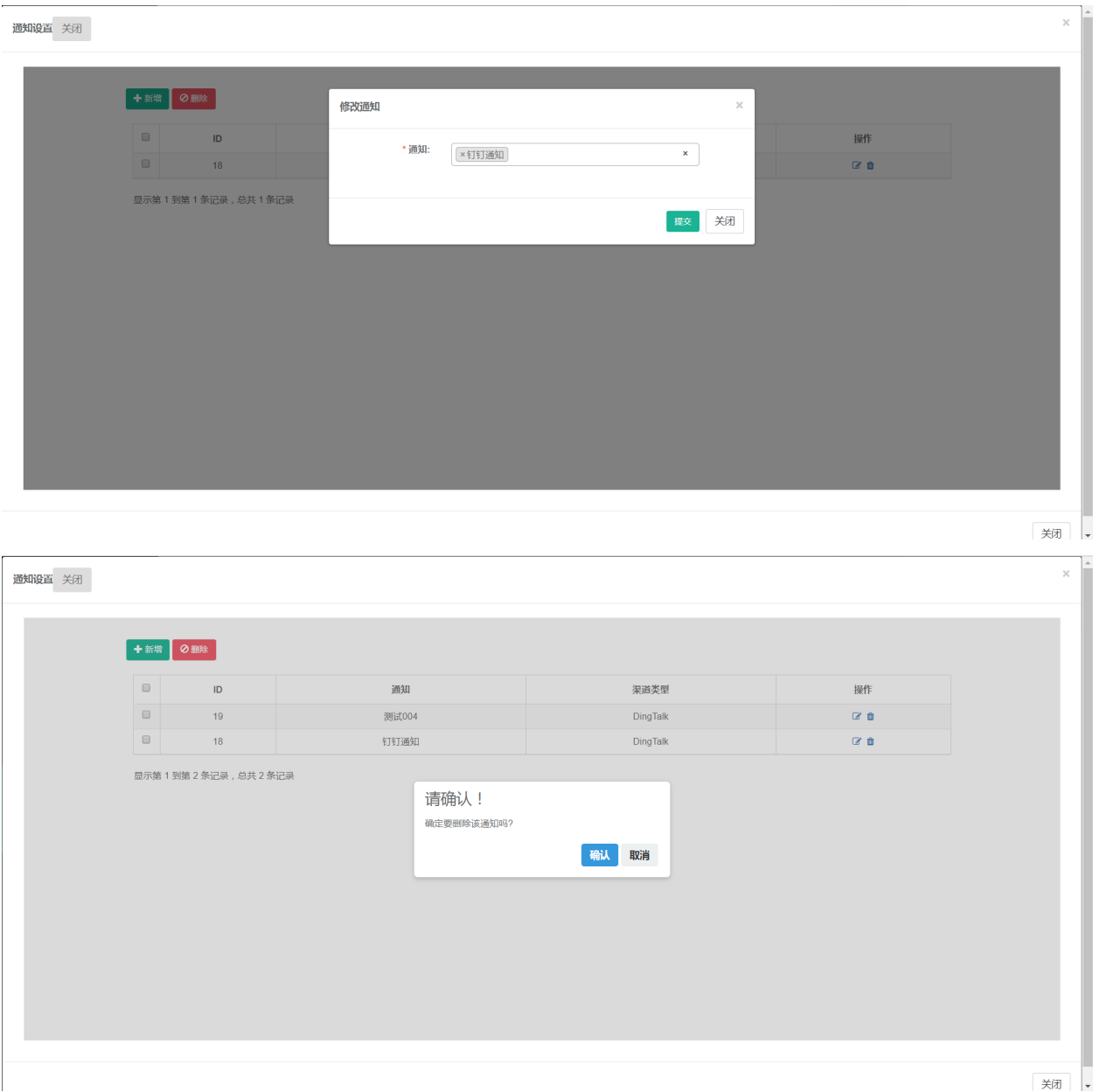
显示第 1 到第 2 条记录, 总共 2 条记录

OpsGratVersion 3.0.6









通知设置

关闭

+ 新增

删除

	ID	通知	渠道类型	操作
	18	钉钉通知	DingTalk	

显示第 1 到第 1 条记录，总共 1 条记录

关闭

普通管理员

管理员

Dashboard

自动化管理

资源管理

模板管理

作业模板

工作流模板

通知管理

系统管理

全局搜索...

OpsGrat

SSO

帮助

登出

访问历史: 作业管理 > 正在运行的作业数量 > 凭据管理

作业模板

+ 新增

删除

请选择主机清单

请选择凭据

请选择自动化工程

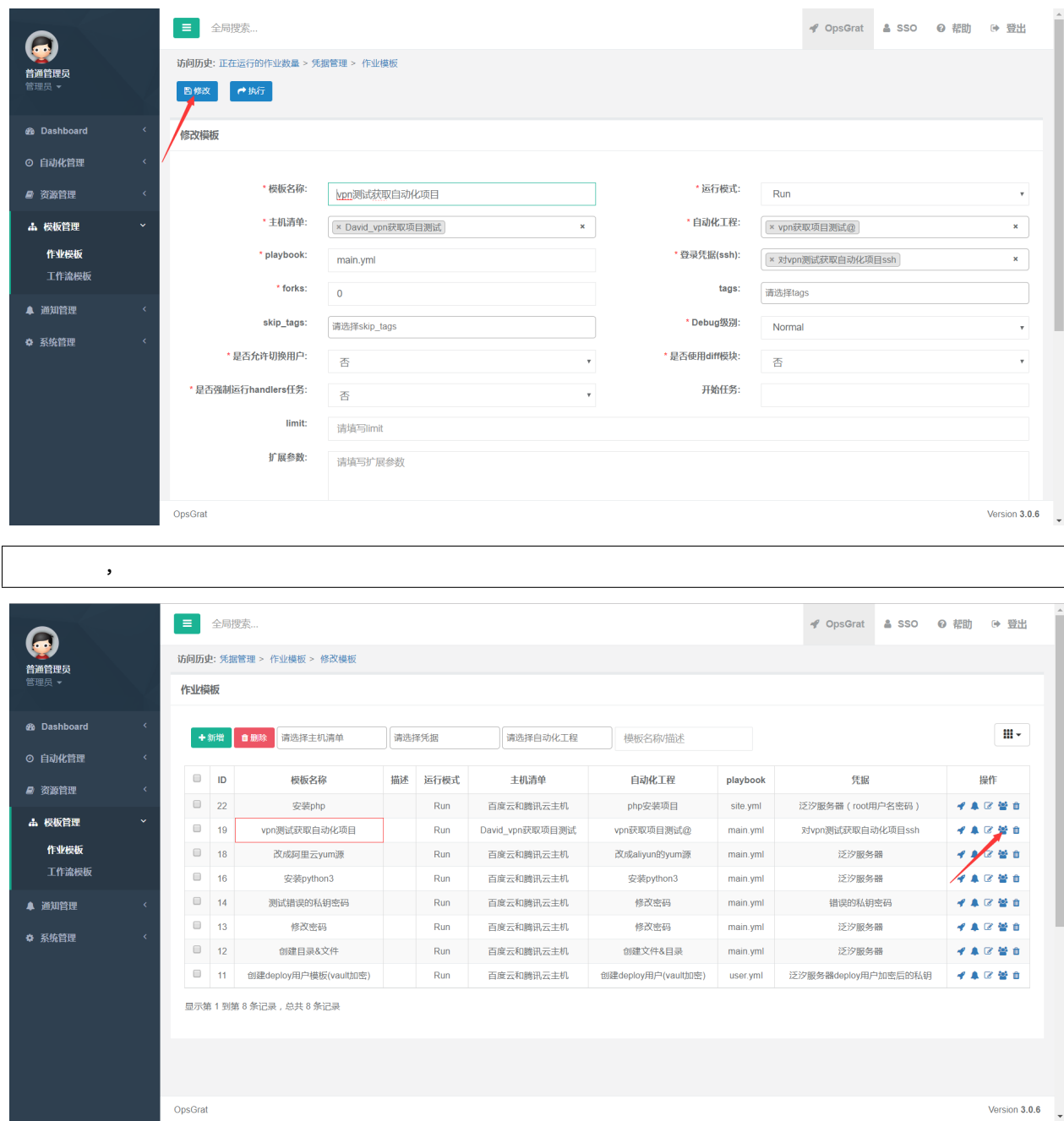
模板名称/描述

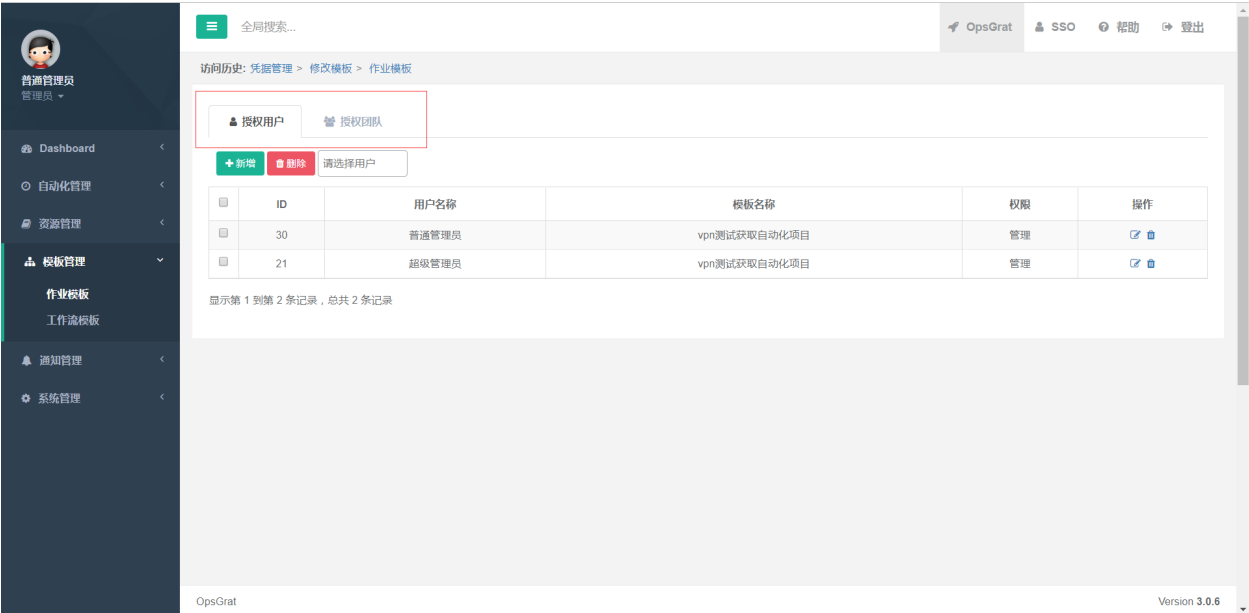
	ID	模板名称	描述	运行模式	主机清单	自动化工程	playbook	凭据	操作
	22	安装php		Run	百度云和腾讯云主机	php安装项目	site.yml	泛汐服务器 (root用户名密码)	
	19	David对vpn测试获取自动化项目		Run	David_vpn获取项目测试	vpn获取项目测试@	main.yml	对vpn测试获取自动化项目ssh	
	18	改成阿里云yum源		Run	百度云和腾讯云主机	改成aliyun的yum源	main.yml	泛汐服务器	
	16	安装python3		Run	百度云和腾讯云主机	安装python3	main.yml	泛汐服务器	
	14	测试错误的私钥密码		Run	百度云和腾讯云主机	修改密码	main.yml	错误的私钥密码	
	13	修改密码		Run	百度云和腾讯云主机	修改密码	main.yml	泛汐服务器	
	12	创建目录&文件		Run	百度云和腾讯云主机	创建文件&目录	main.yml	泛汐服务器	
	11	创建deploy用户模板(vault加密)		Run	百度云和腾讯云主机	创建deploy用户(vault加密)	user.yml	泛汐服务器deploy用户加密后的私钥	

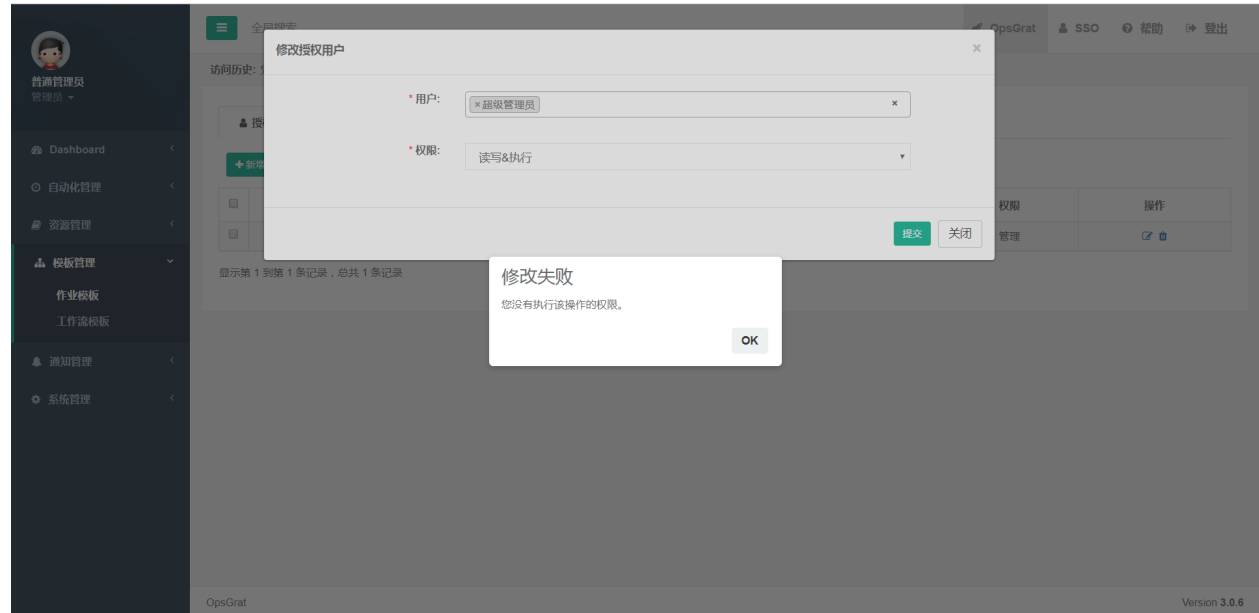
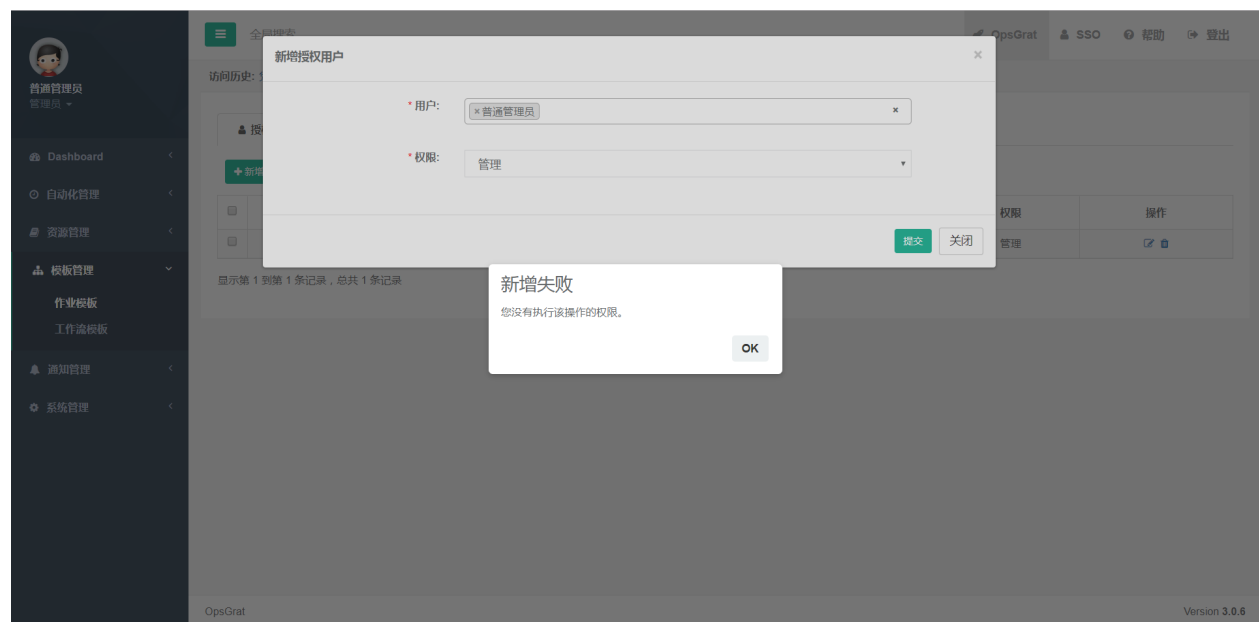
显示第 1 到第 8 条记录，总共 8 条记录

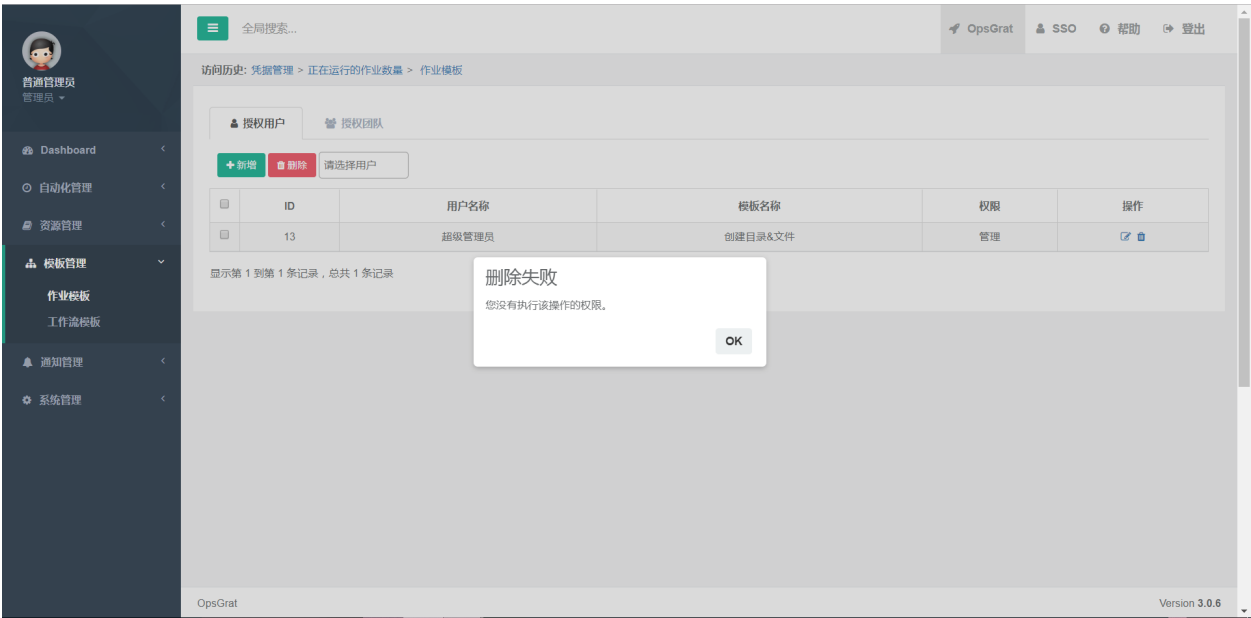
OpsGrat

Version 3.0.6

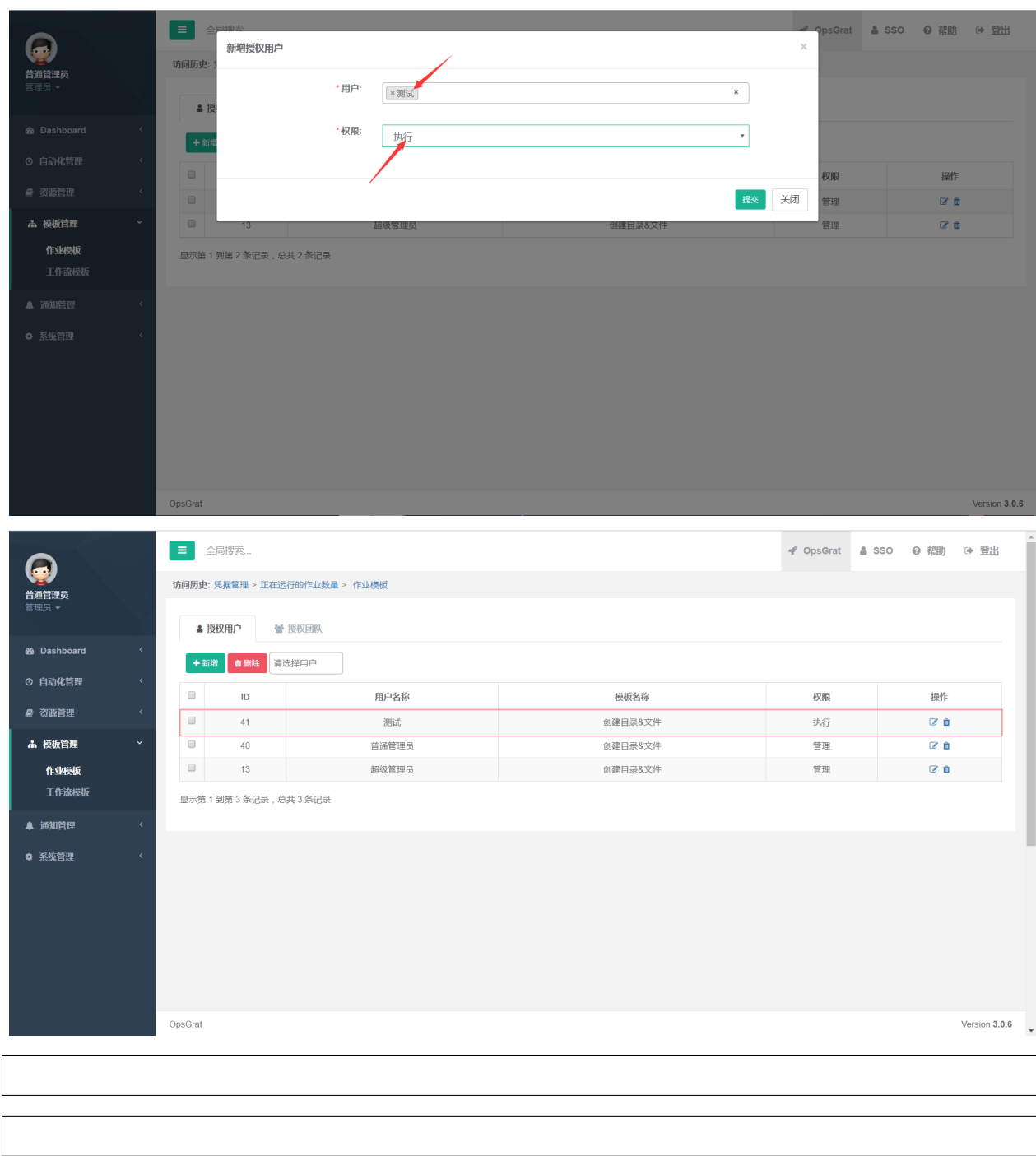


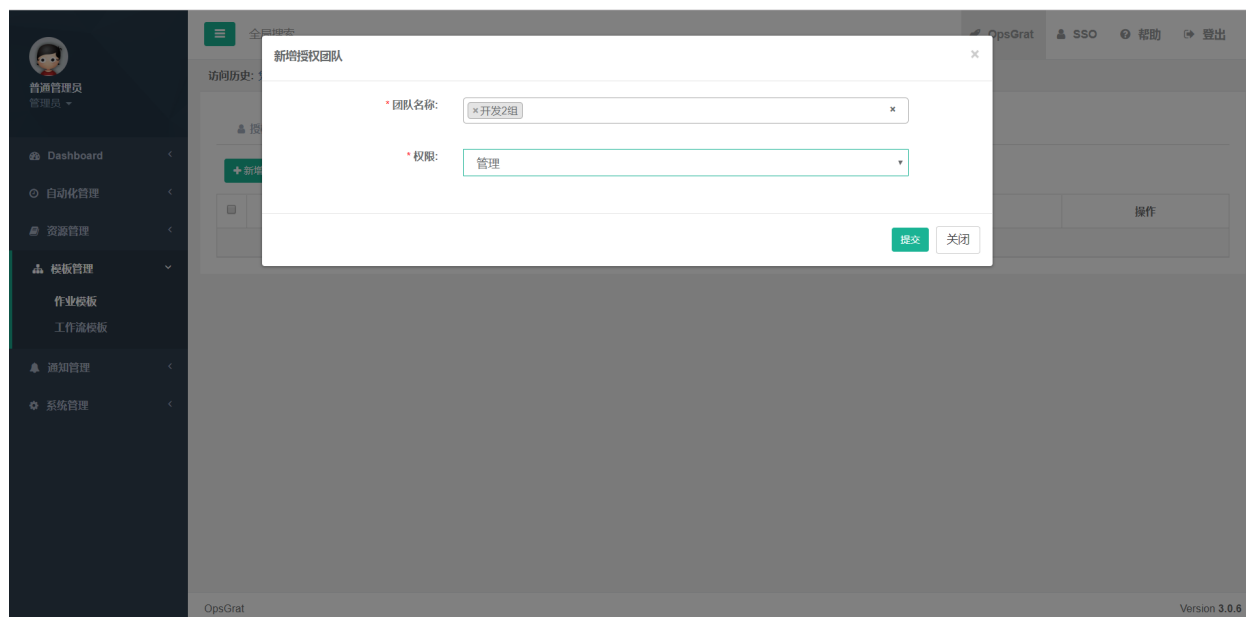
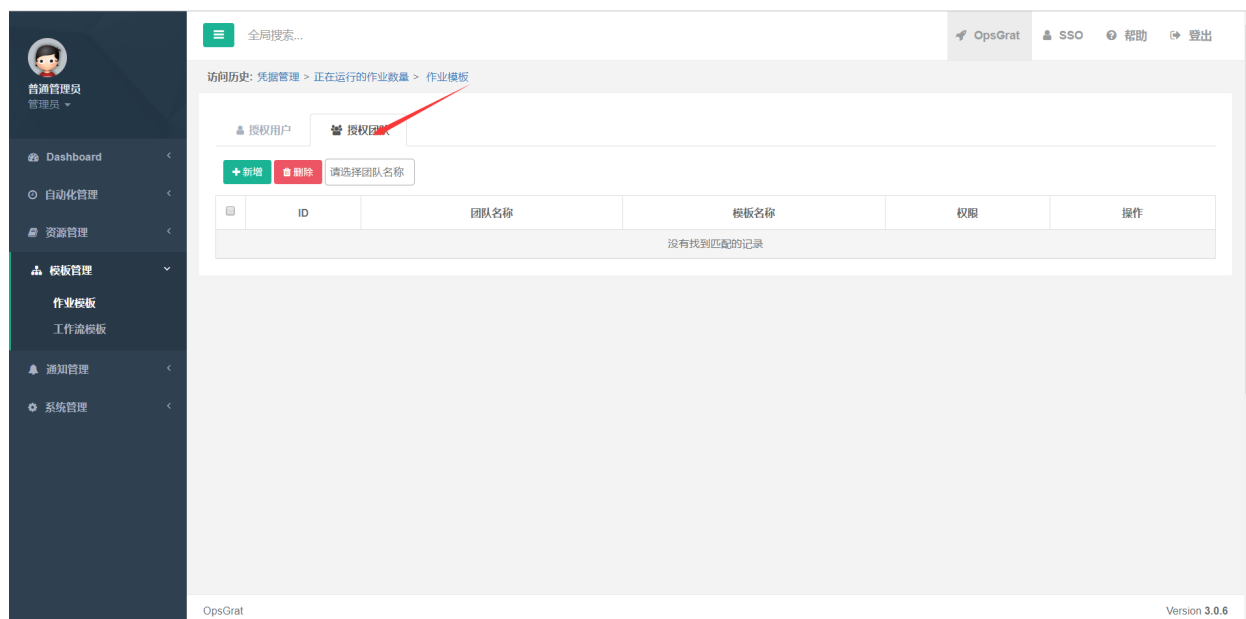


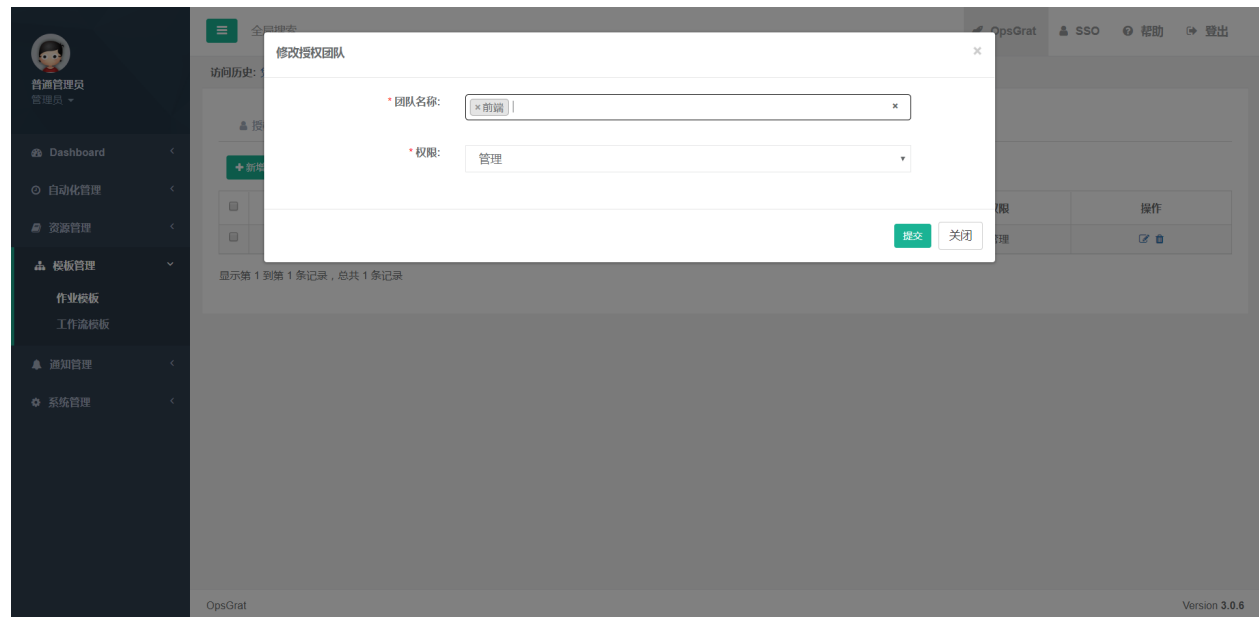
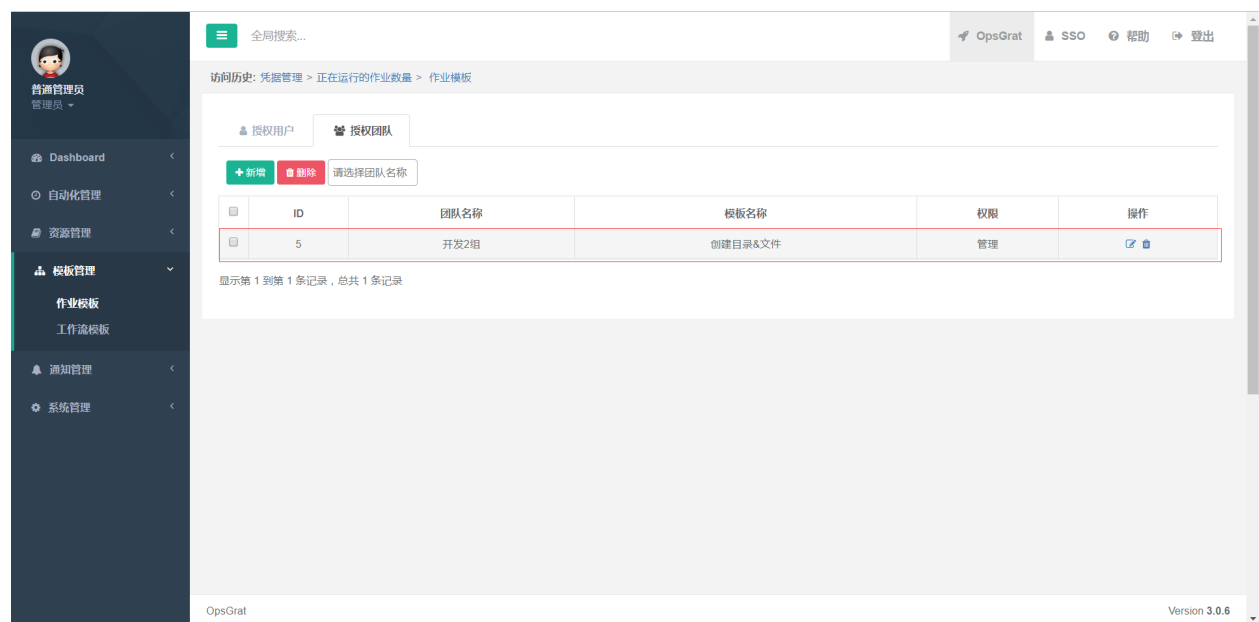




SSO





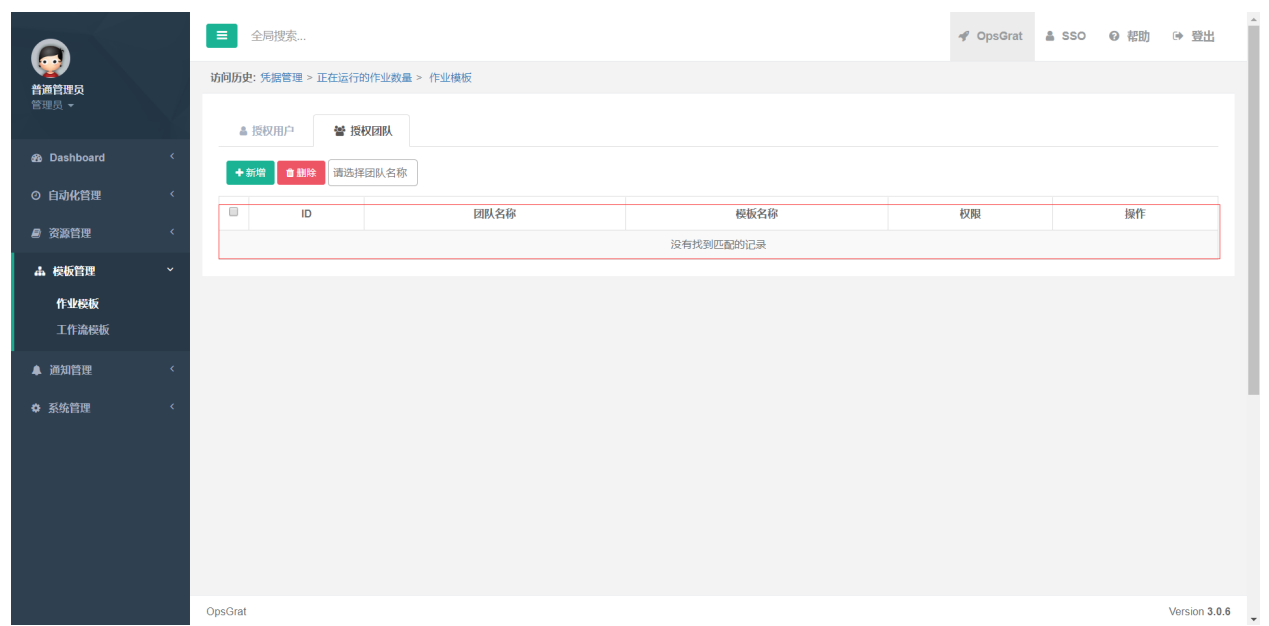


The image displays two screenshots of the OpsGrat web application interface, specifically the '授权团队' (Authorize Team) page. The interface includes a sidebar with navigation options like 'Dashboard', '自动化管理', '资源管理', '模板管理', '作业模板', '工作流模板', '通知管理', and '系统管理'. The main content area shows a table of authorized teams.

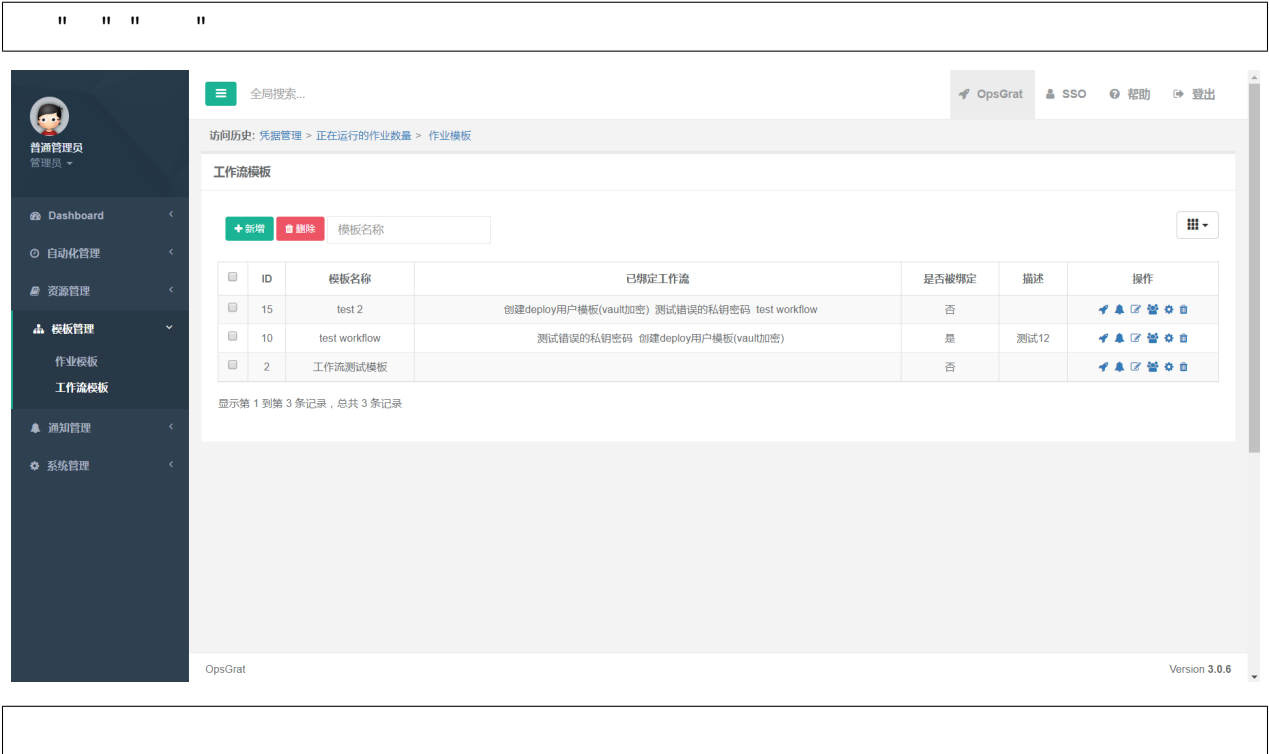
Top Screenshot: The '授权团队' tab is active. A red box highlights the '团队名称' (Team Name) column in the table. The table has columns: ID, 团队名称, 模板名称, 权限, and 操作. The first row shows ID 5, 前端, 创建目录&文件, 管理, and a link icon.

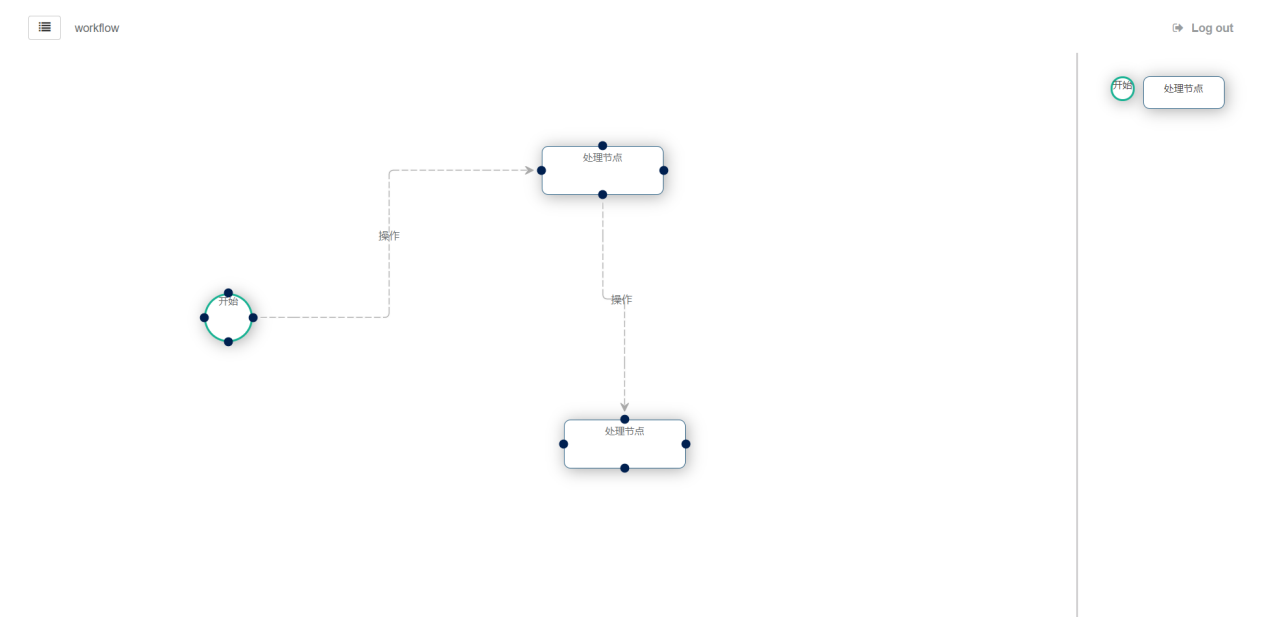
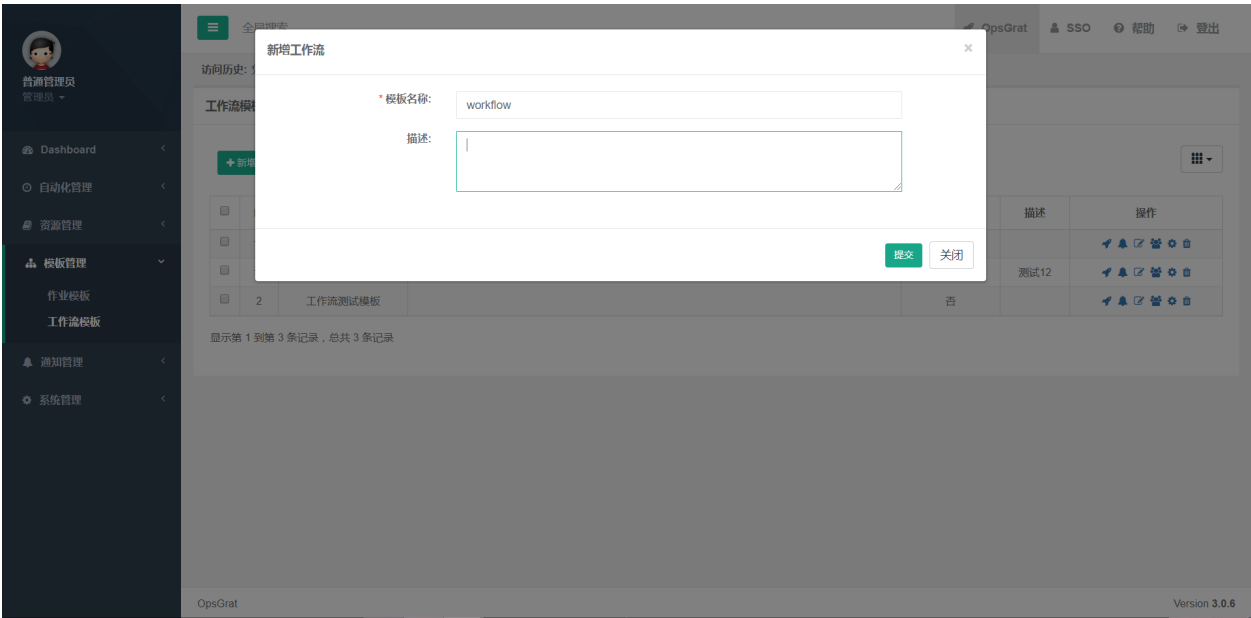
ID	团队名称	模板名称	权限	操作
5	前端	创建目录&文件	管理	编辑

Bottom Screenshot: A confirmation dialog box is displayed over the table. The dialog text is: '请确认！' (Please confirm!), '确定要删除该数据吗？' (Are you sure you want to delete this data?). There are two buttons: '确认' (Confirm) and '取消' (Cancel). A red arrow points to the '确认' button.

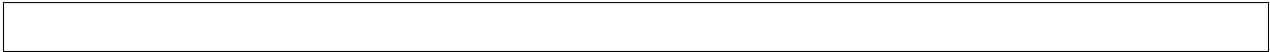


2.5.2





- 1
- 2
- 3



修改连线信息

连线信息

运行结果:

成功或失败

成功或失败

成功

失败

关闭

123

workflow

Log out

开始

成功或失败

成功或失败

成功或失败

成功或失败

成功或失败

成功或失败

成功或失败

处理节点

编辑节点

节点信息

* 节点名:

处理节点

* 节点类型:

作业模板

* 绑定模板:

创建目录&文件

* 使用节点参数:

是

* forks:

0

limit:

tags:

text

skip_tags:

text

* Debug级别:

Normal

* 是否允许切换用户:

否

关闭

普通管理员
管理员

Dashboard

自动化管理

资源管理

模板管理

作业模板

工作流模板

通知管理

系统管理

全局搜索...

OpsGrat SSO 帮助 退出

访问历史: 工作流模板 > 正在运行的作业数量 > 作业模板

工作流模板

新增 删除 模板名称

ID	模板名称	已绑定工作流	是否被绑定	描述	操作
26	workflow		否		
15	test 2	创建deploy用户模板(vault加密) 测试错误的私钥密码 test workflow	否		
10	test workflow	测试错误的私钥密码 创建deploy用户模板(vault加密)	是	测试12	
2	工作流测试模板		否		

显示第 1 到第 4 条记录, 总共 4 条记录

OpsGrat Version 3.0.6

普通管理员

管理员

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资源管理

模板管理

作业模板

工作流模板

通知管理

系统管理

全局搜索...

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SSO

帮助

退出

访问历史: 工作流模板 > 正在运行的作业数量 > 作业模板

工作流模板

新增

删除

模板名称

ID

模板名称

已绑定工作流

是否被绑定

描述

操作

26

workflow

否

15

test 2

创建deploy用户模板(vault加密) 测试错误的私钥密码 test workflow

否

10

test workflow

测试错误的私钥密码 创建deploy用户模板(vault加密)

是

测试12

2

工作流测试模板

否

显示第 1 到第 4 条记录, 总共 4 条记录

OpsGrat

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开始

成功

处理节点

失败

处理节点

新建

等待中

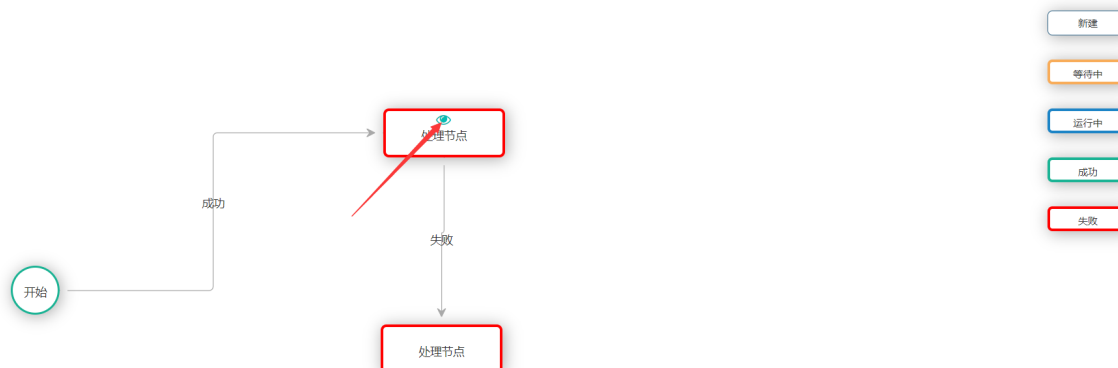
运行中

成功

失败

2.5.

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普通管理员
管理员

Dashboard

自动化管理

- 作业管理
- 批命令
- 作业执行
- 计划任务

资源管理

模板管理

通知管理

系统管理

全局搜索...

OpsGrat SSO 帮助 退出

访问历史: 工作流模板 > 作业管理 > 作业信息

作业信息

执行人: [redacted]

模板: 创建deploy用户模板(vault加密)

主机清单: 百度云和腾讯云主机

凭据: 泛汐服务器deploy用户加密后的私钥

开始时间: 2019-06-25 14:57:31

结束时间: 2019-06-25 14:58:07

状态: 失败

作业类型: 自动化作业

运行模式: run

playbook: user.yml

forks: 0

tags:

skip tags:

作业日志

Key has comment '/tmp/auto_job_421/tmp980_jh'

Your identification has been saved with the new passphrase.

/usr/bin/ansible-playbook -i /tmp/auto_job_421/tmp980_jh -u deploy --private-key=/tmp/auto_job_421/tmp980_jh --vault-id t

Vault password (testid):

PLAY [all] *****

TASK [Gathering Facts] *****

ok: [redacted]

fatal: [134.175.14.227]: UNREACHABLE! => {"changed": false, "msg": "Failed to connect to the host via ssh: Permission denied

ok: [redacted]

ok: [redacted]

ok: [redacted]

ok: [redacted]

TASK [Create group] *****

ok: [redacted]

ok: [redacted]

ok: [redacted]

ok: [redacted]

ok: [redacted]

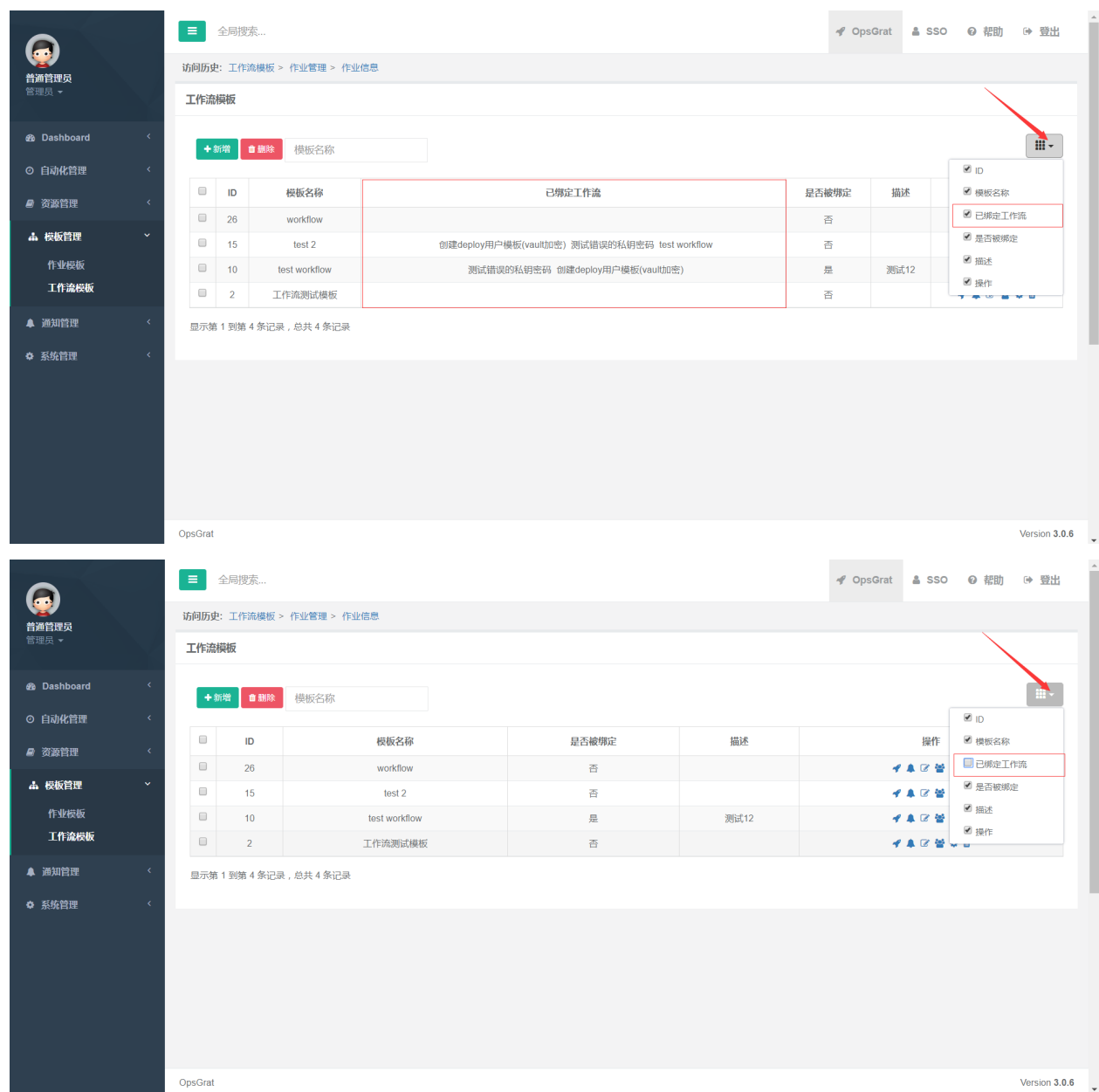
ok: [redacted]

ok: [redacted]

OpsGrat Version 3.0.6

114

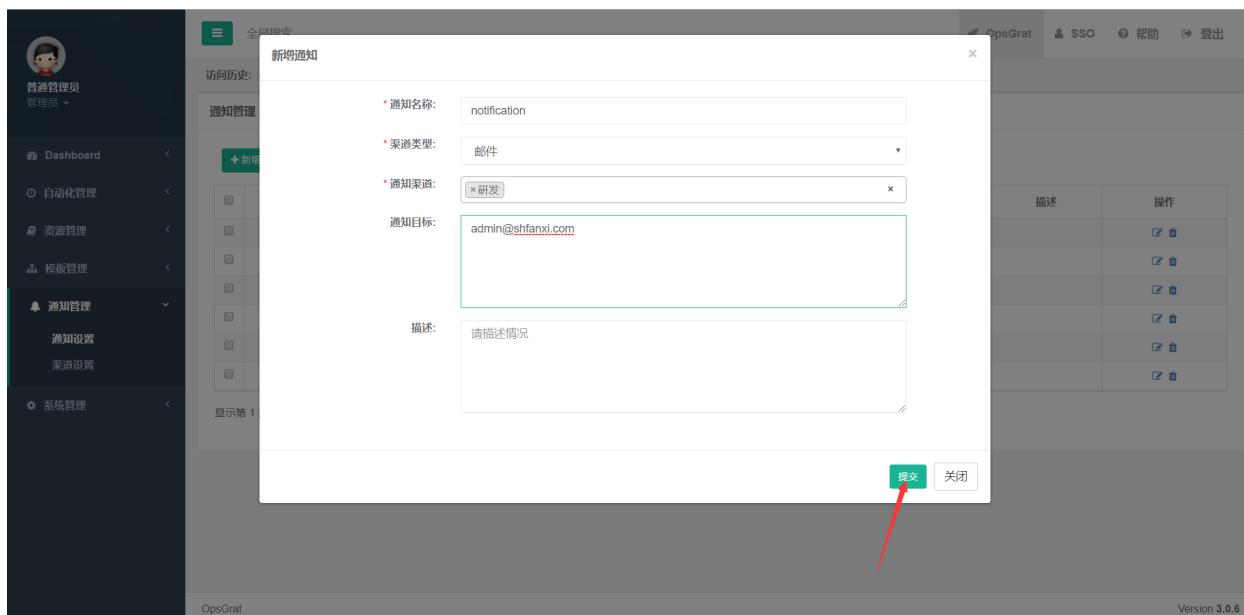
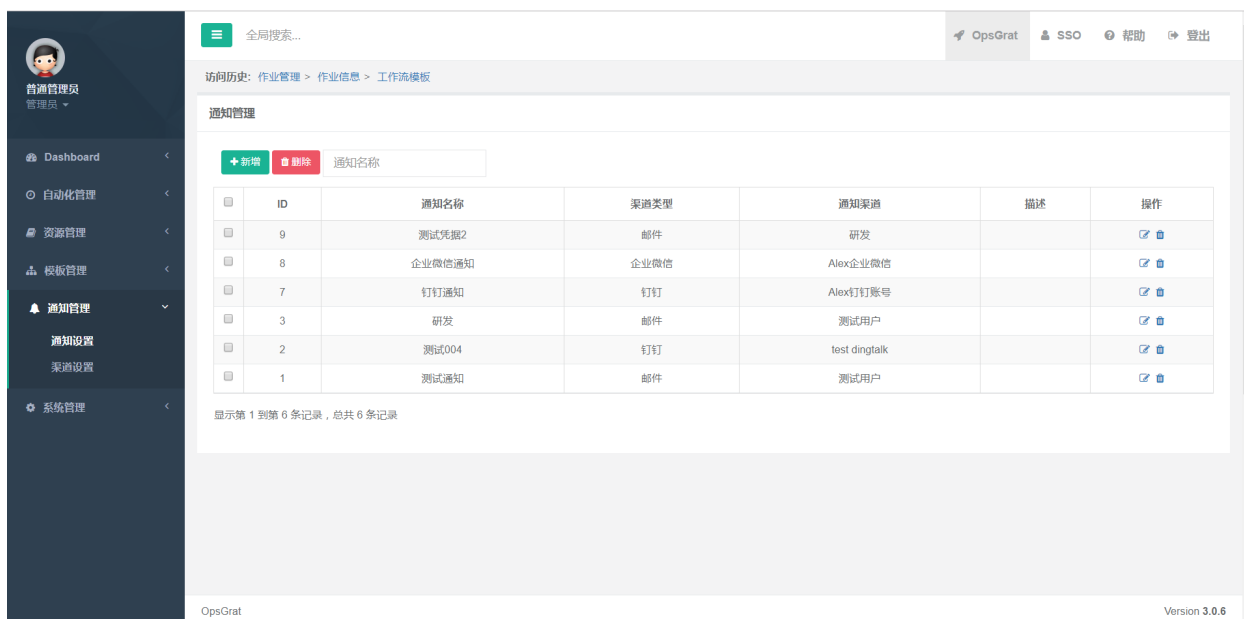
Chapter 2.

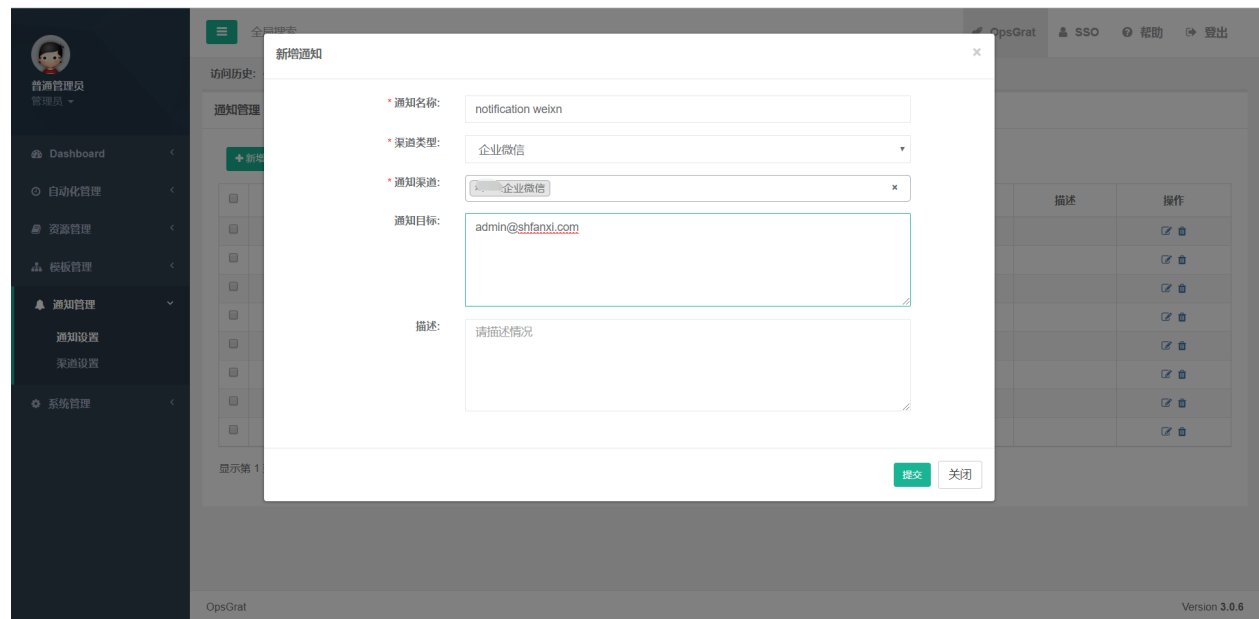
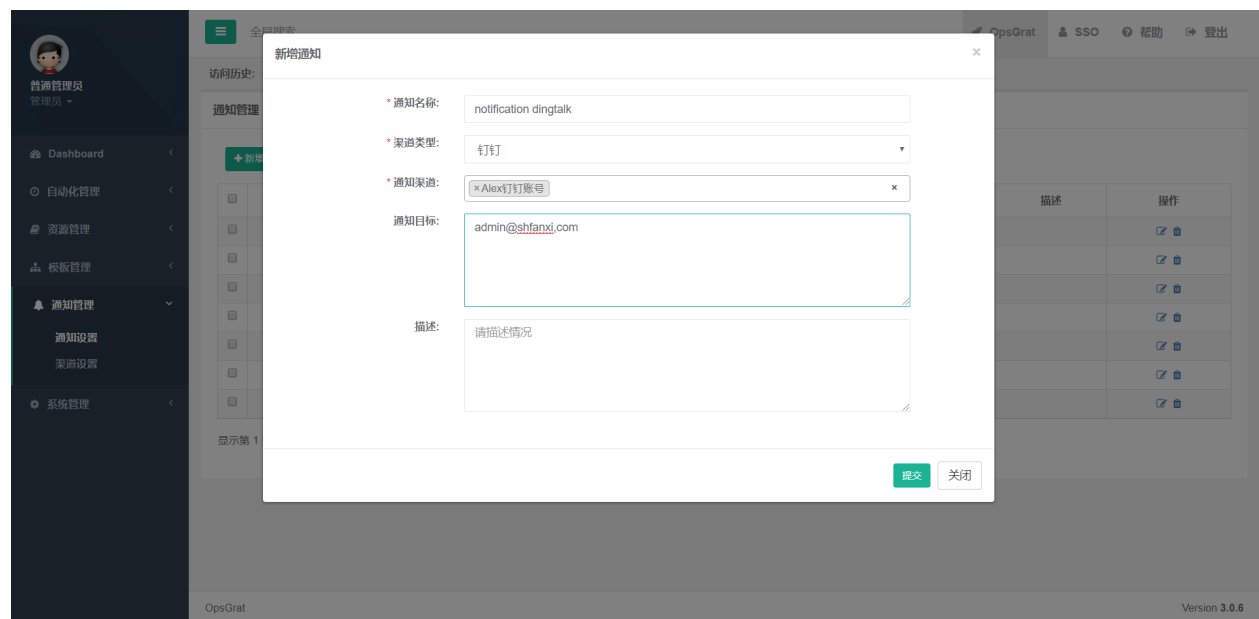


2.6

2.6.1

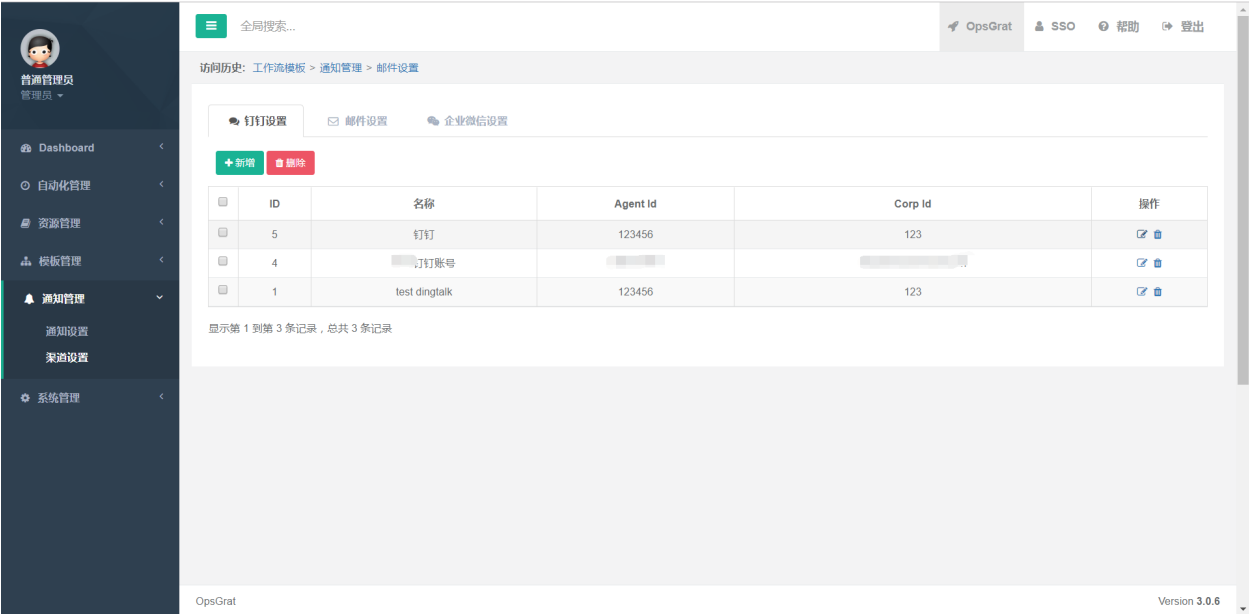


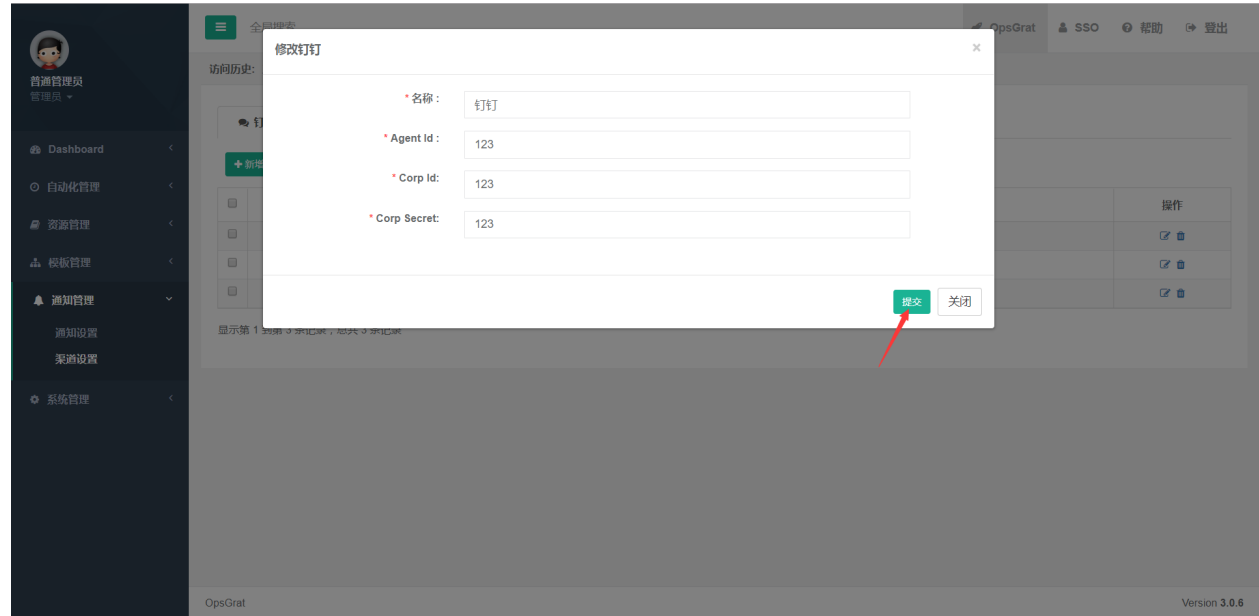
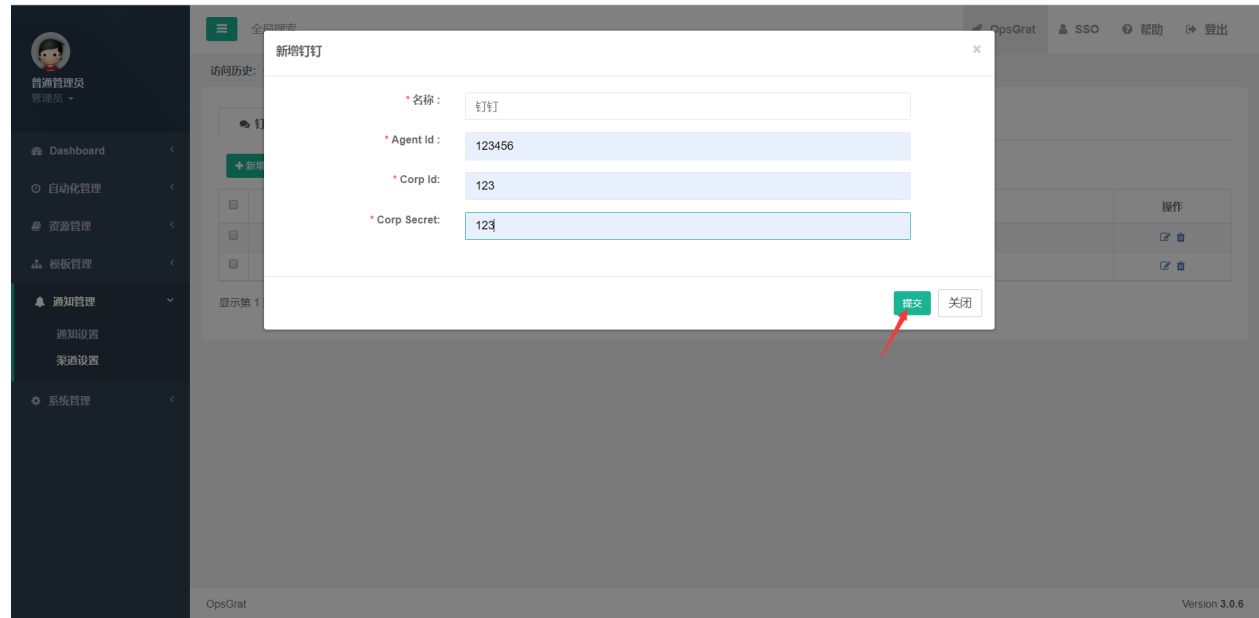


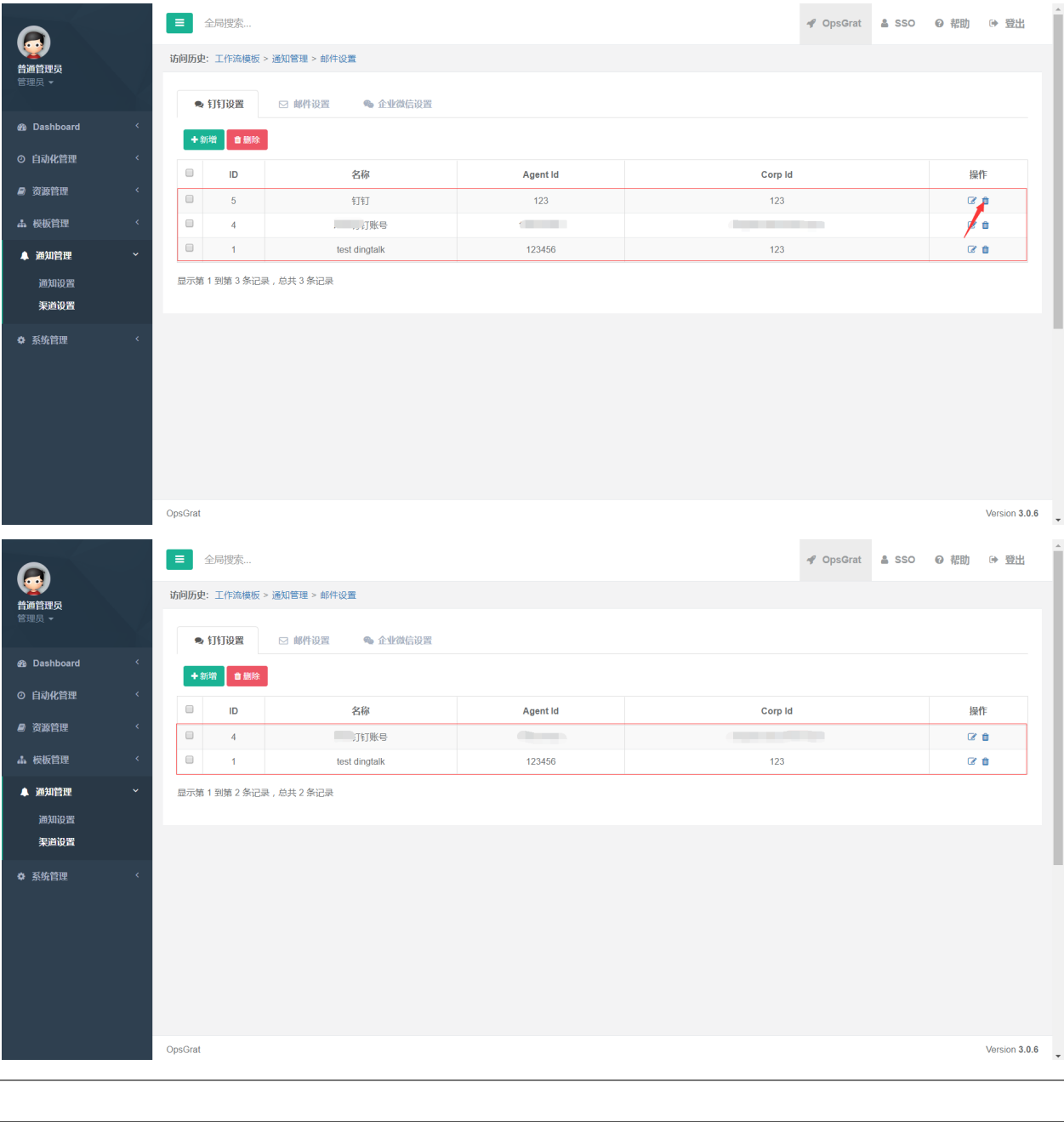


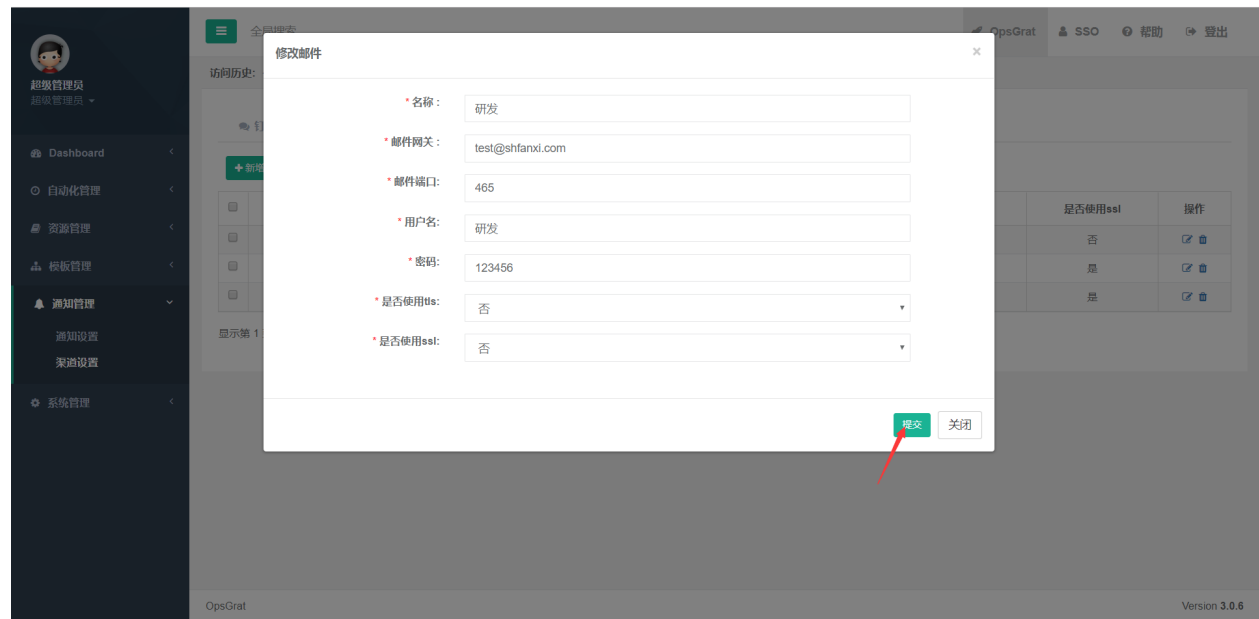
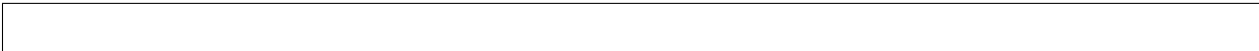
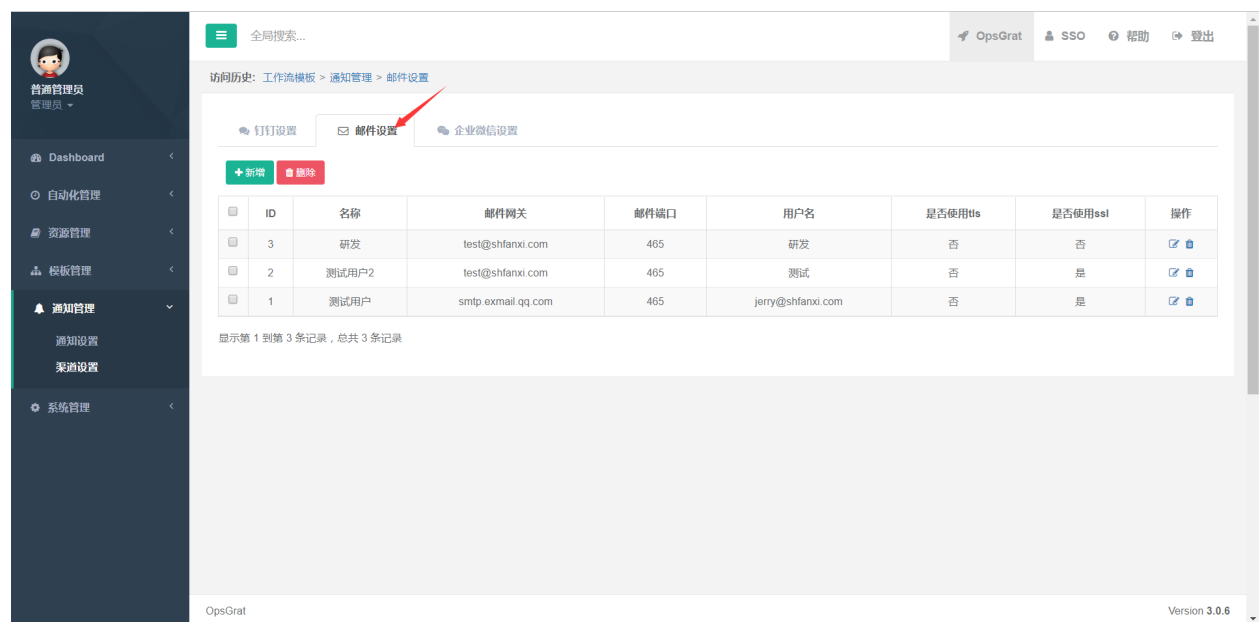


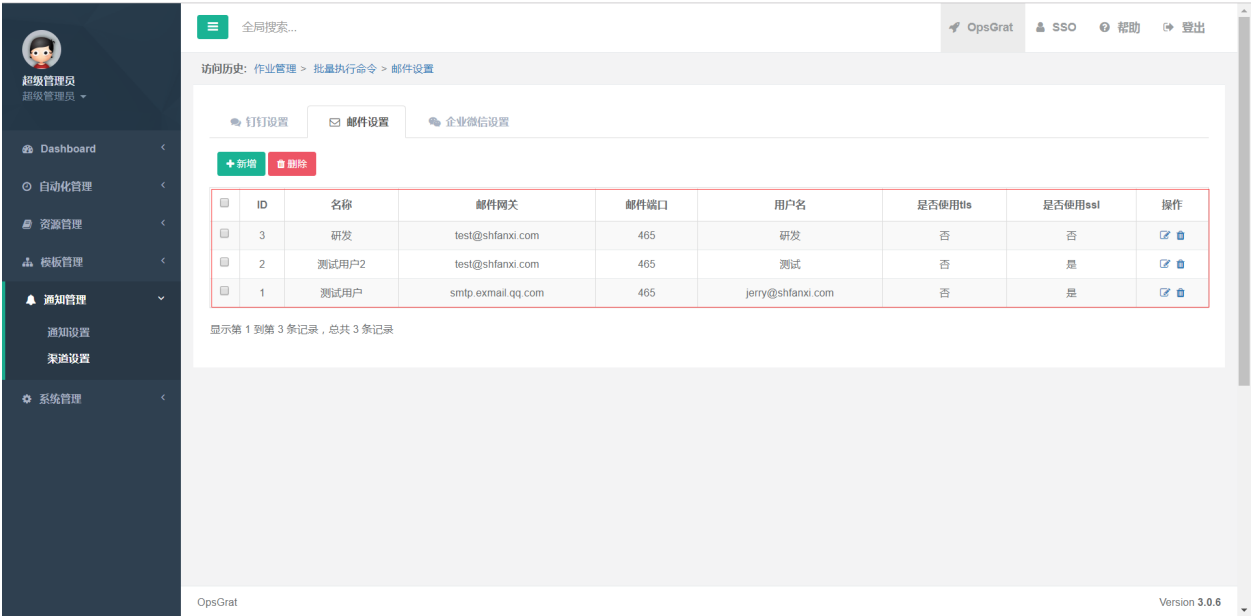
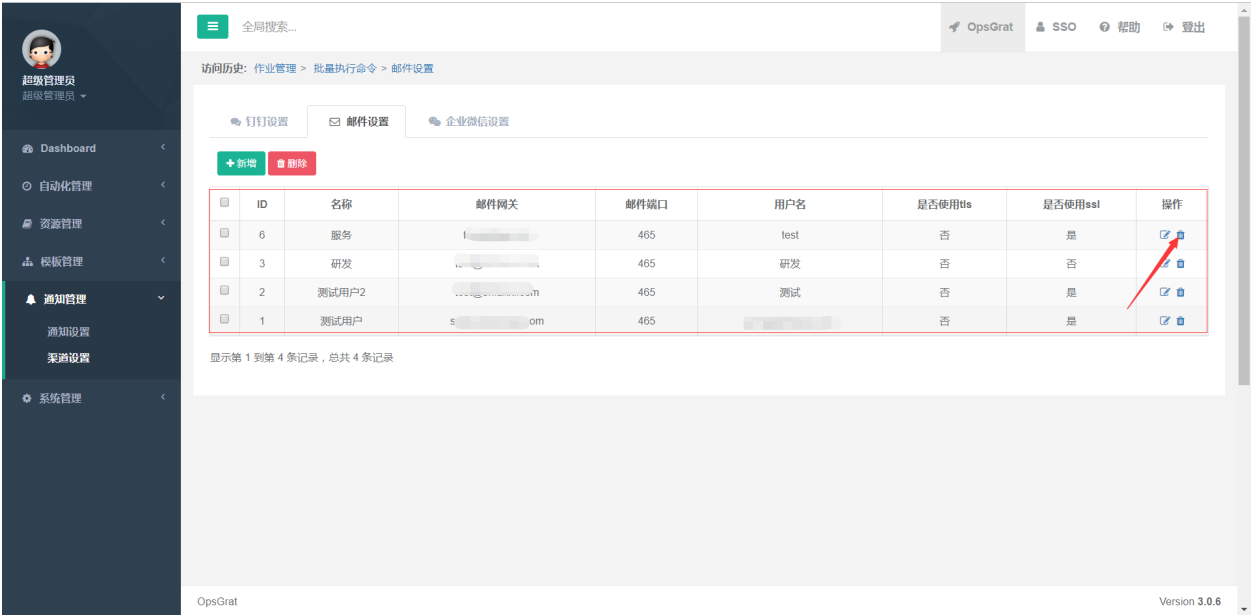
2.6.2

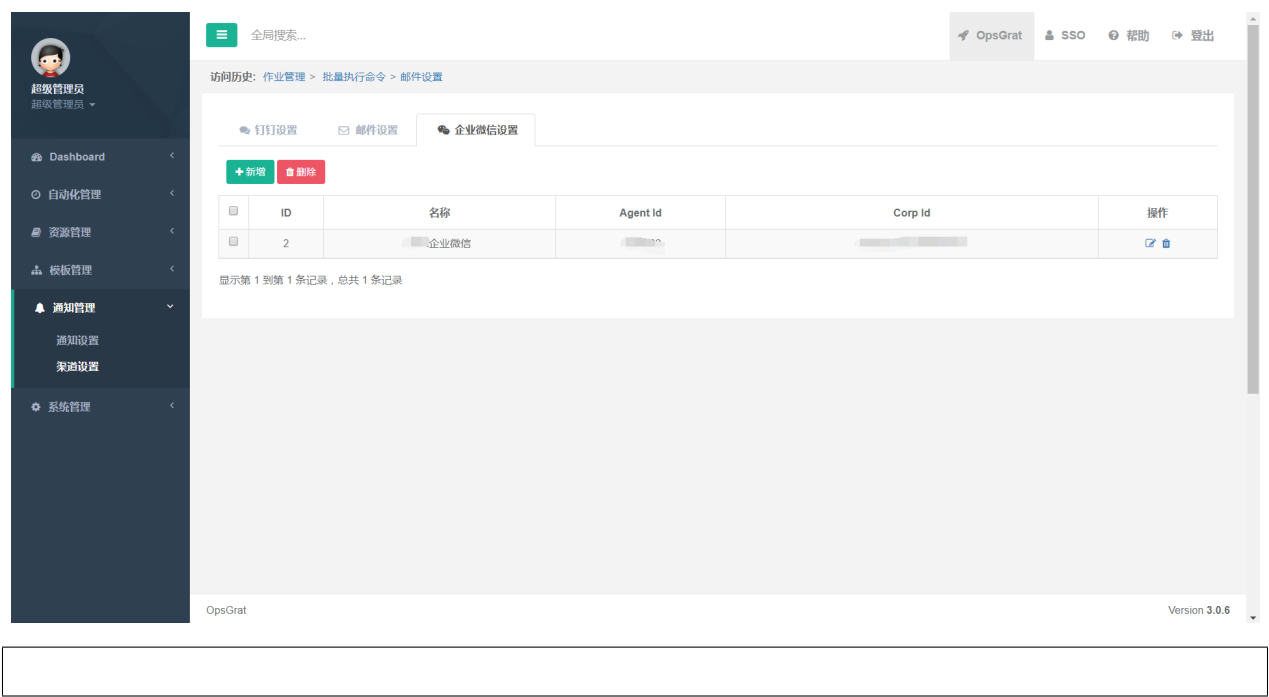












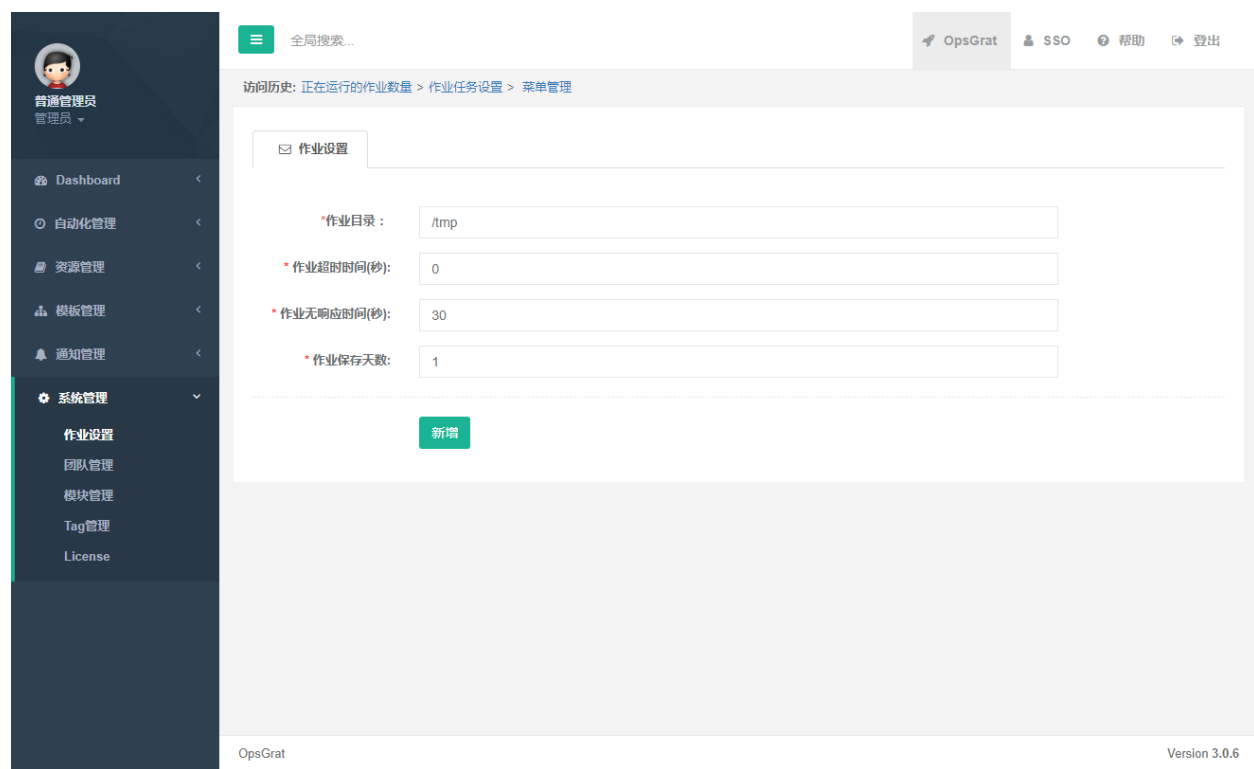
2.7

2.7.1



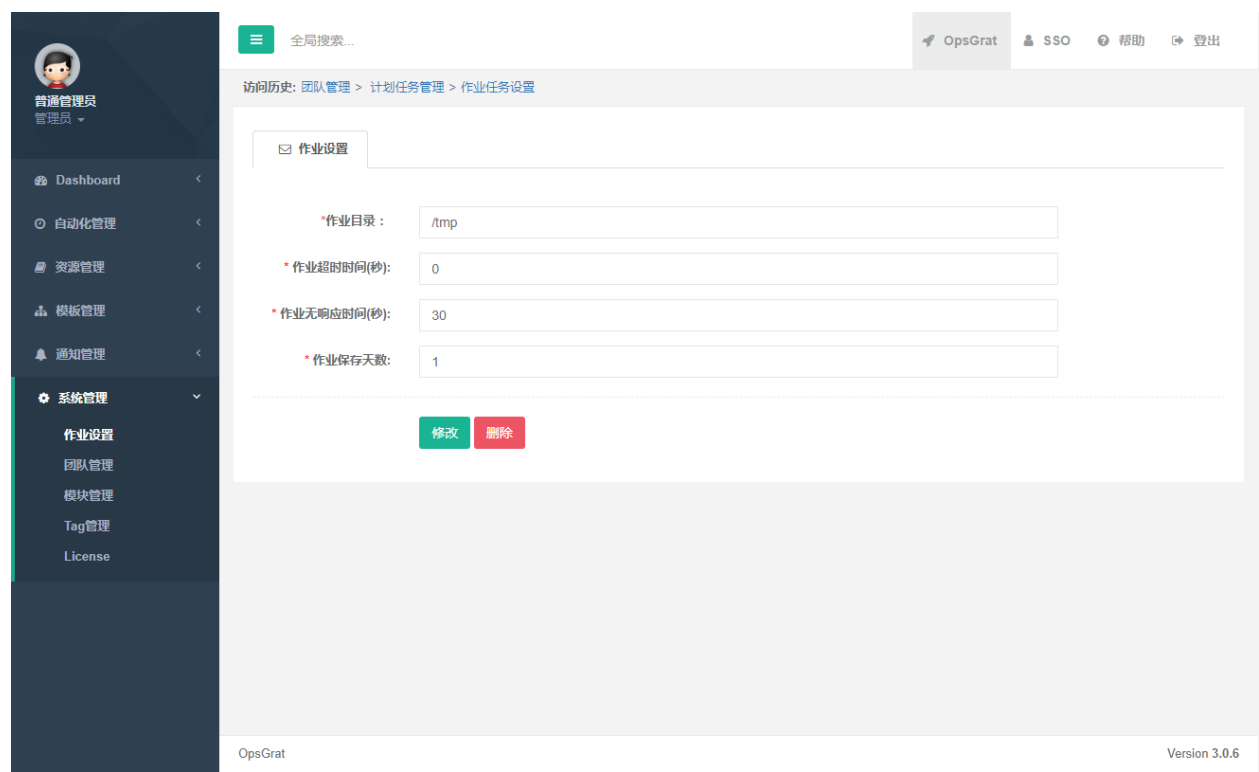


" "



" "

" "



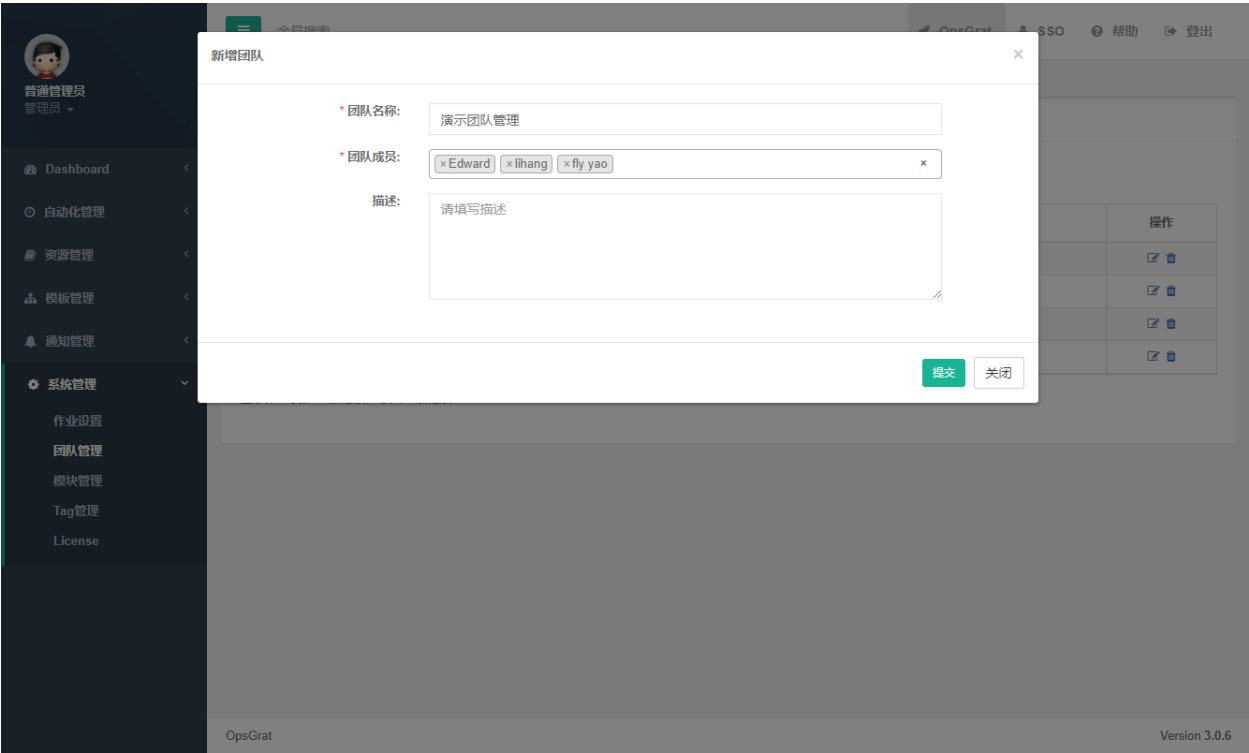
2.7.2

1

" "	" "	" "	" "
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“ ” “ ”



普通管理员

管理员

Dashboard

自动化管理

资源管理

模板管理

通知管理

系统管理

作业设置

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团队管理

+ 新增

删除

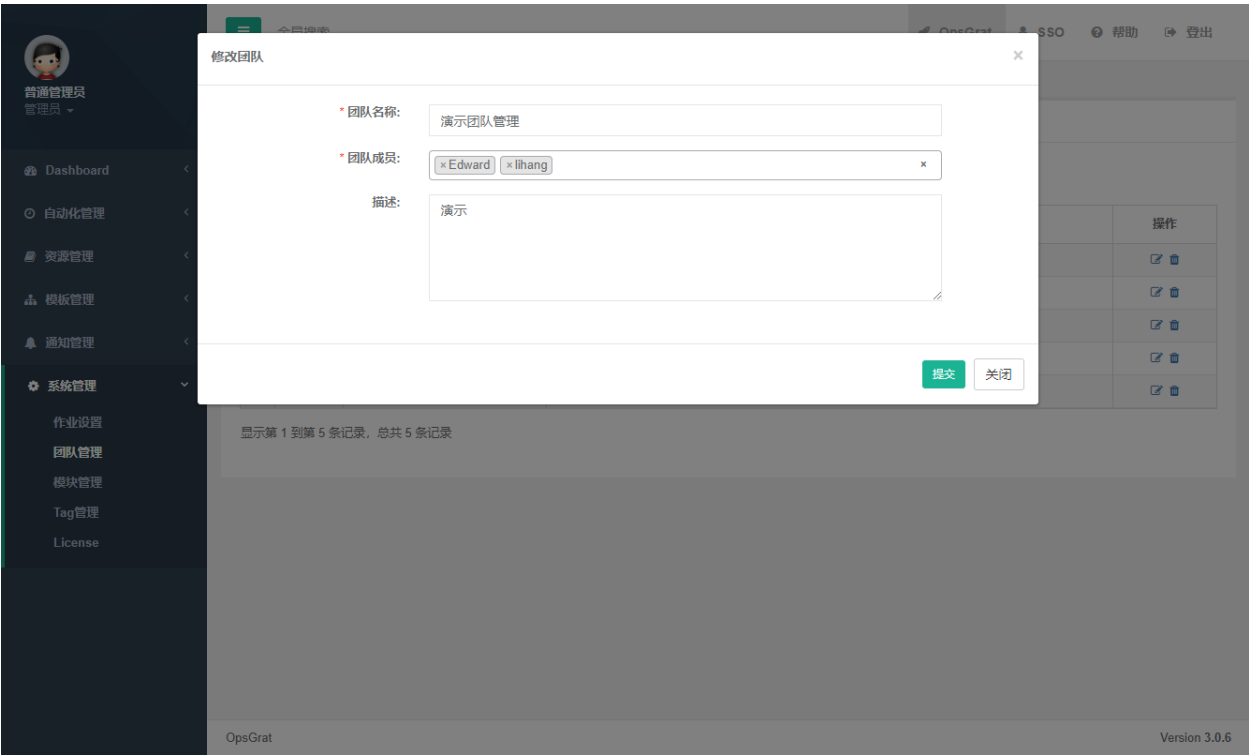
团队名称/描述

	ID	团队名称	描述	操作
	14	演示团队管理		
	11	开发2组	有多少经济实力，就有多大发展空间。	
	9	前端	不求最好，但求最全	
	7	开发1组	观察趋势，了解趋势，把握趋势，实现创新	
	2	测试团队	愿原力与你同在！	

显示第 1 到第 5 条记录，总共 5 条记录

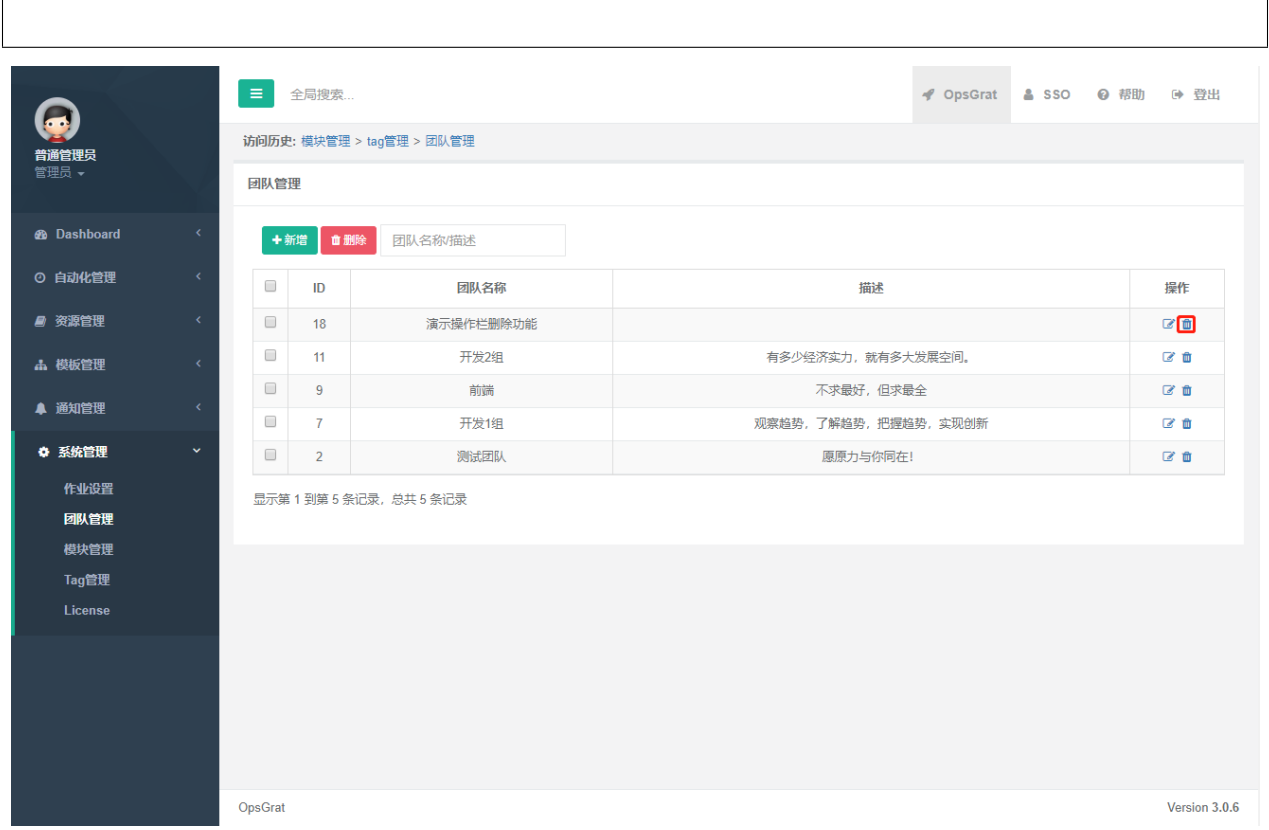
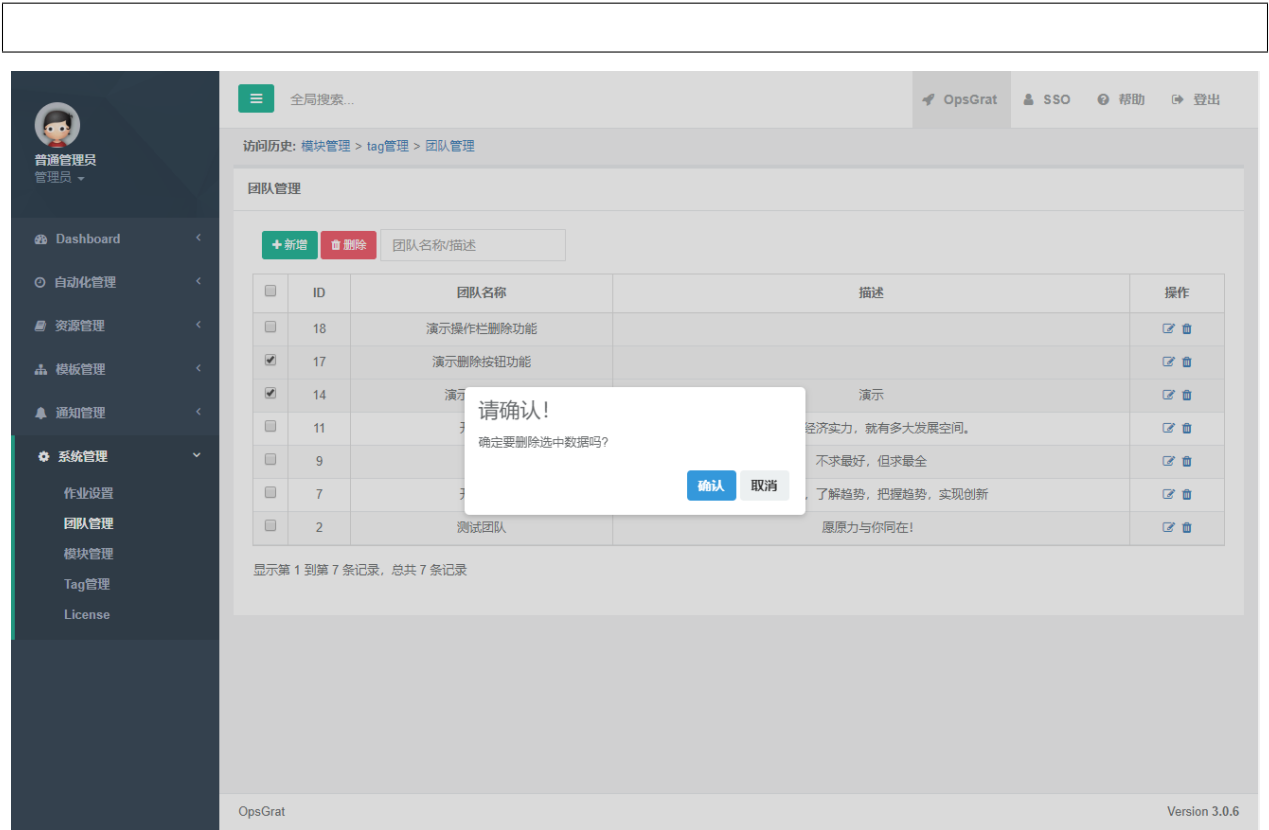
OpsGrat

Version 3.0.6

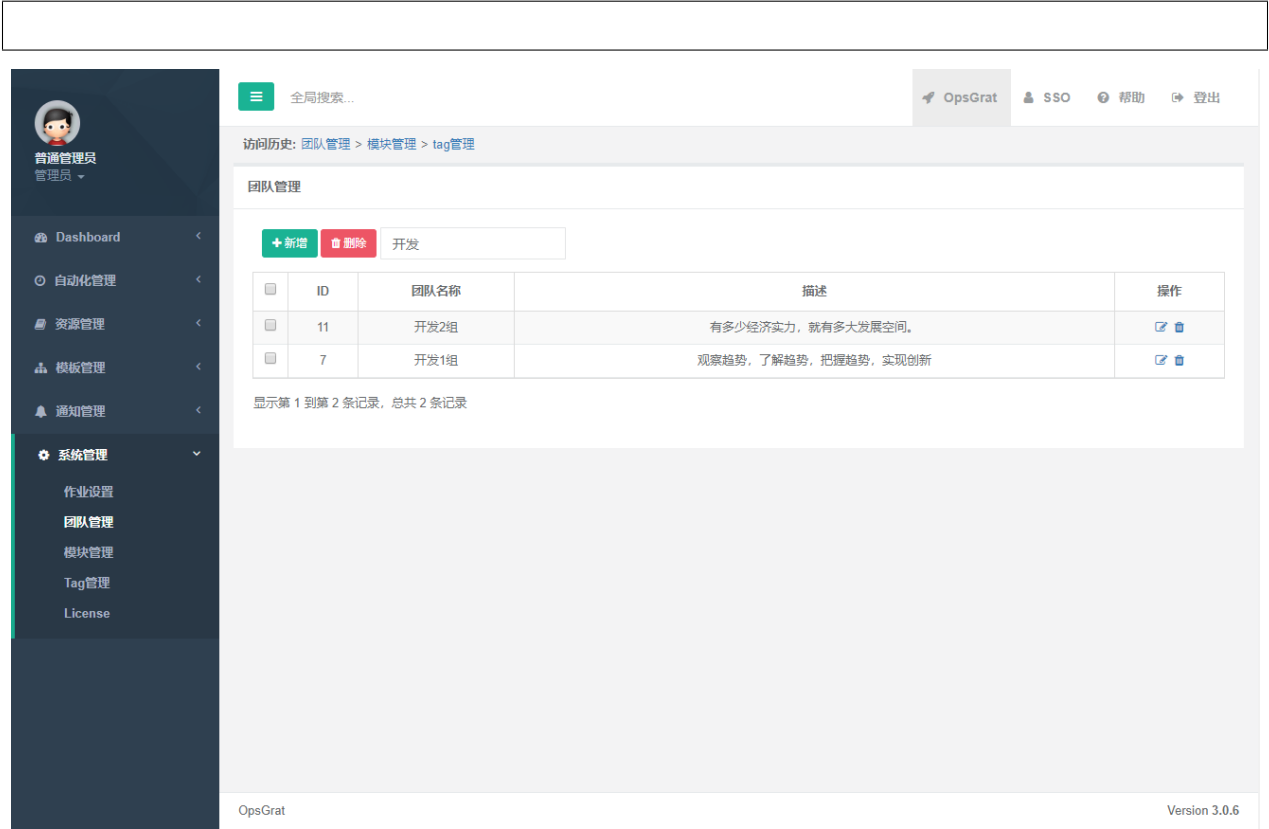


3





4



2.7.3

1



普通管理员

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模块管理

+ 新增

删除

模块名称

ID	模块名称	权重	模块描述	操作
1	command	0	命令	编辑 删除
2	yum	0	使用yum包管理工具管理Rad Hat上的包	编辑 删除
3	pip	0	试用pip管理python依赖库	编辑 删除
4	service	0	服务管理	编辑 删除
5	copy	0	将文件复制到远程节点上	编辑 删除
6	file	0	设置文件或者文件夹属性	编辑 删除
7	script	0	将本地脚本传输到远程节点上运行	编辑 删除
8	user	0	管理用户账户	编辑 删除
9	group	0	添加或删除GROUP	编辑 删除
10	template	0	将模板文件传输到远程服务器	编辑 删除
11	unarchive	0	解压文件、复制到远程服务器上	编辑 删除
12	mysql_db	0	管理MySQL数据库, 创建或删除用户、数据库、导入表等	编辑 删除

显示第 1 到第 12 条记录, 总共 12 条记录

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" " "shell"

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模块管理

+ 新增

删除

模块名称

ID	模块名称	权重	模块描述	操作
1	command	0	命令	编辑 删除
2	yum	0	使用yum包管理工具管理Rad Hat上的包	编辑 删除
3	pip	0	试用pip管理python依赖库	编辑 删除
4	service	0	服务管理	编辑 删除
5	copy	0	将文件复制到远程节点上	编辑 删除
6	file	0	设置文件或者文件夹属性	编辑 删除
7	script	0	将本地脚本传输到远程节点上运行	编辑 删除
8	user	0	管理用户账户	编辑 删除
9	group	0	添加或删除GROUP	编辑 删除
10	template	0	将模板文件传输到远程服务器	编辑 删除
11	unarchive	0	解压文件、复制到远程服务器上	编辑 删除
12	mysql_db	0	管理MySQL数据库, 创建或删除用户、数据库、导入表等	编辑 删除

显示第 1 到第 12 条记录, 总共 12 条记录

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新增模块

* 模块名称:

shell

* 权重:

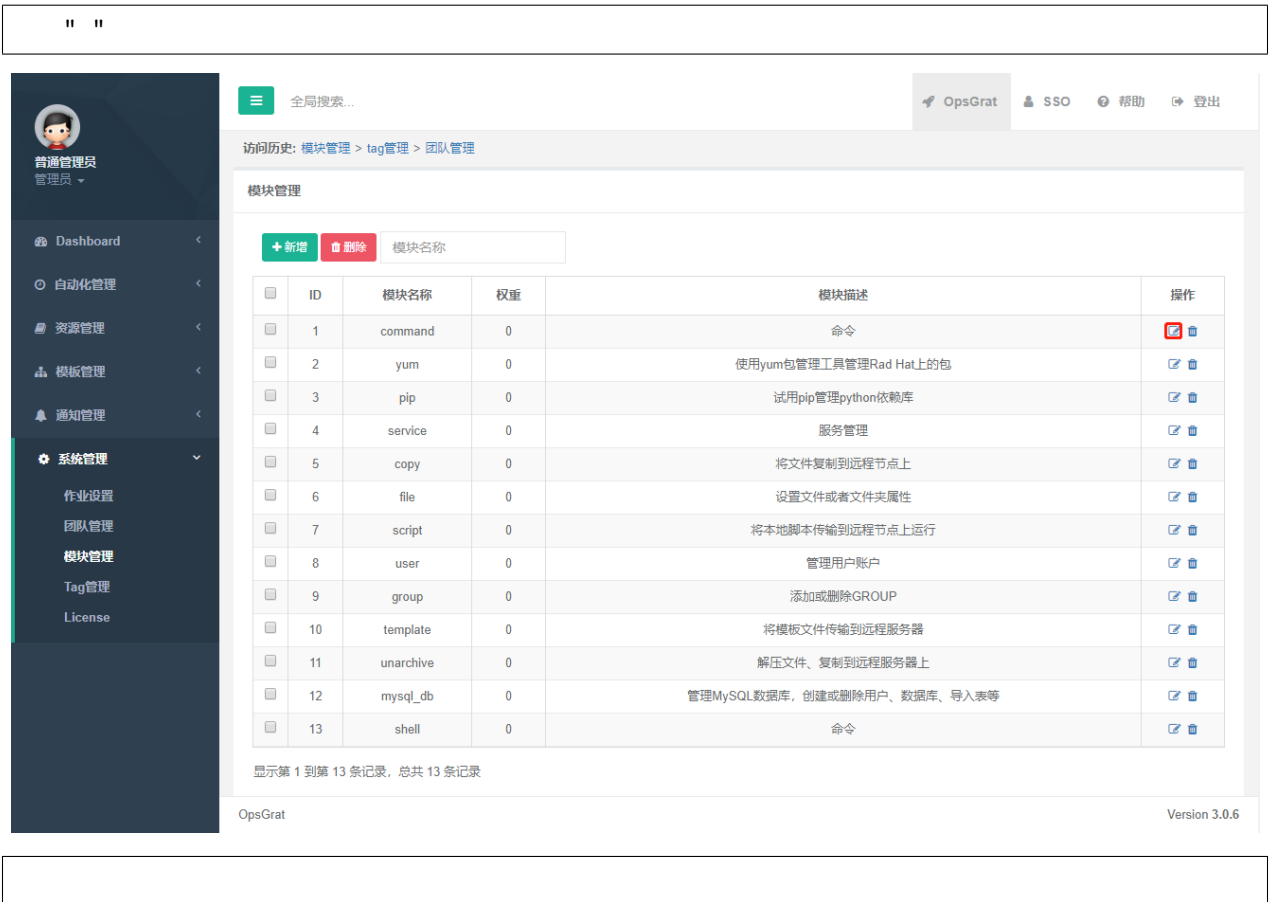
0

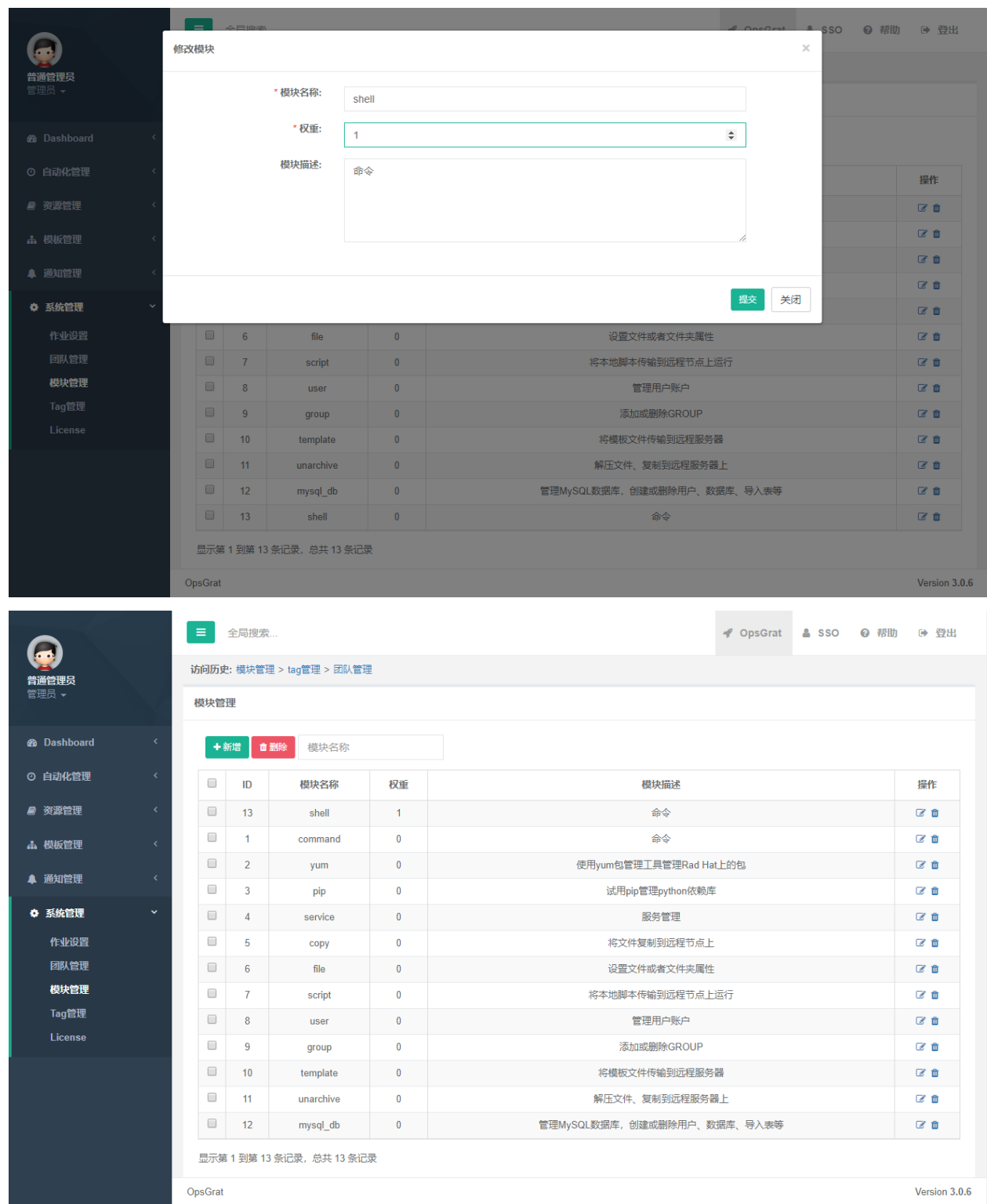
模块描述:

命令

提交

关闭





3

普洲管理员

管理员

Dashboard

自动化管理

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访问历史: 模块管理 > tag管理 > 团队管理

模块管理

+ 新增

删除

模块名称

	ID	模块名称	权重	模块描述	操作
☒	13	shell	1	命令	编辑 删除
☐	1	command	0	命令	编辑 删除
☐	2	yum	0	使用yum包管理工具管理Rad Hat上的包	编辑 删除
☐	3	pip	0	试用pip管理python依赖库	编辑 删除
☐	4	service	0	服务管理	编辑 删除
☐	5	copy	0	将文件复制到远程节点上	编辑 删除
☐	6	file	0	设置文件或者文件夹属性	编辑 删除
☐	7	script	0	将本地脚本传输到远程节点上运行	编辑 删除
☐	8	user	0	管理用户账户	编辑 删除
☐	9	group	0	添加或删除GROUP	编辑 删除
☐	10	template	0	将模板文件传输到远程服务器	编辑 删除
☐	11	unarchive	0	解压文件、复制到远程服务器上	编辑 删除
☐	12	mysql_db	0	管理MySQL数据库, 创建或删除用户、数据库、导入表等	编辑 删除

显示第 1 到第 13 条记录, 总共 13 条记录

OpsGrat

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普通管理员

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访问历史: [模块管理](#) > [tag管理](#) > [团队管理](#)

模块管理

+ 新增

删除

模块名称

☐	ID	模块名称	权重	模块描述	操作
☒	13	shell	1	命令	编辑 删除
☐	1	command	0	命令	编辑 删除
☐	2	yum	0	使用yum包管理工具管理Rad Hat上的包	编辑 删除
☐	3	pip	0	试用pip管理python依赖库	编辑 删除
☐	4	service	0	服务管理	编辑 删除
☐	5	copy	0	将文件复制到远程节点上	编辑 删除
☐	6	file	0	设置文件或者文件夹属性	编辑 删除
☐	7	script	0	将本地脚本传输到远程节点上运行	编辑 删除
☐	8	user	0	管理用户账户	编辑 删除
☐	9	group	0	添加或删除GROUP	编辑 删除
☐	10	template	0	将模板文件传输到远程服务器	编辑 删除
☐	11	unarchive	0	解压文件、复制到远程服务器上	编辑 删除
☐	12	mysql_db	0	管理MySQL数据库, 创建或删除用户、数据库、导入表等	编辑 删除

显示第 1 到第 13 条记录, 总共 13 条记录

OpsGratVersion 3.0.6

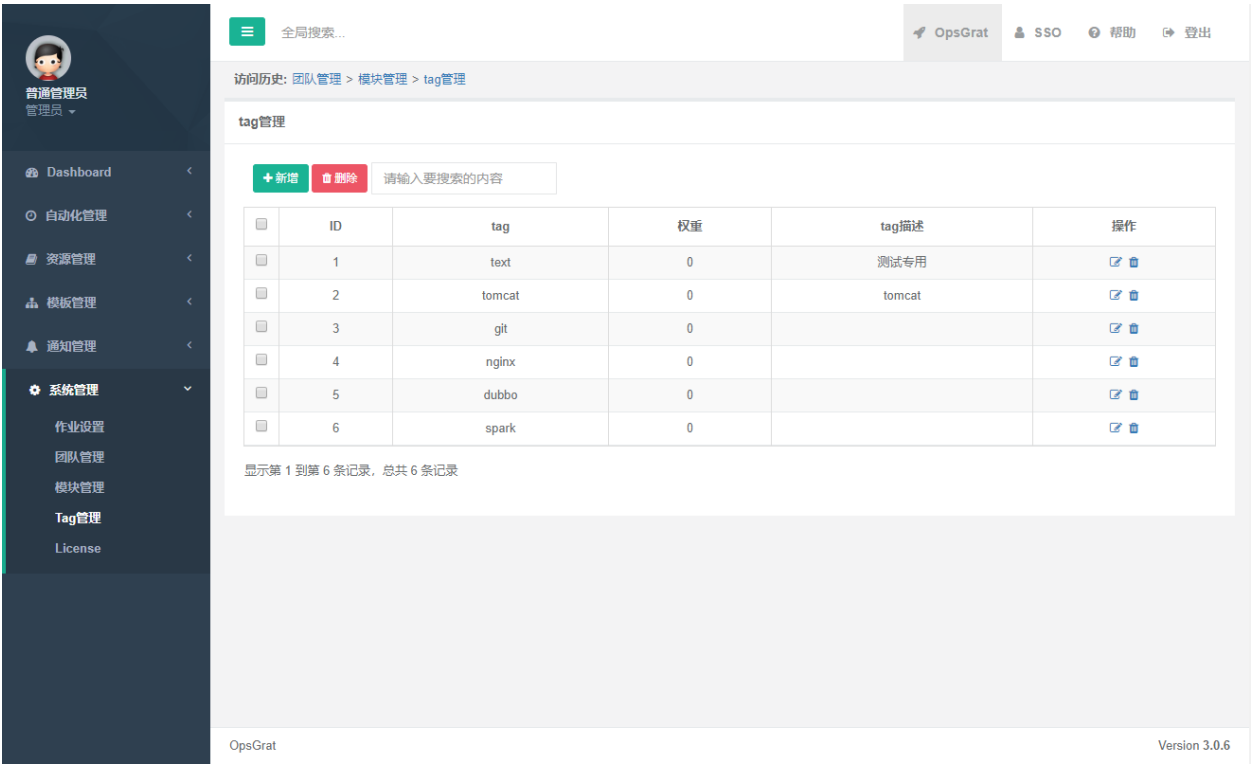
4



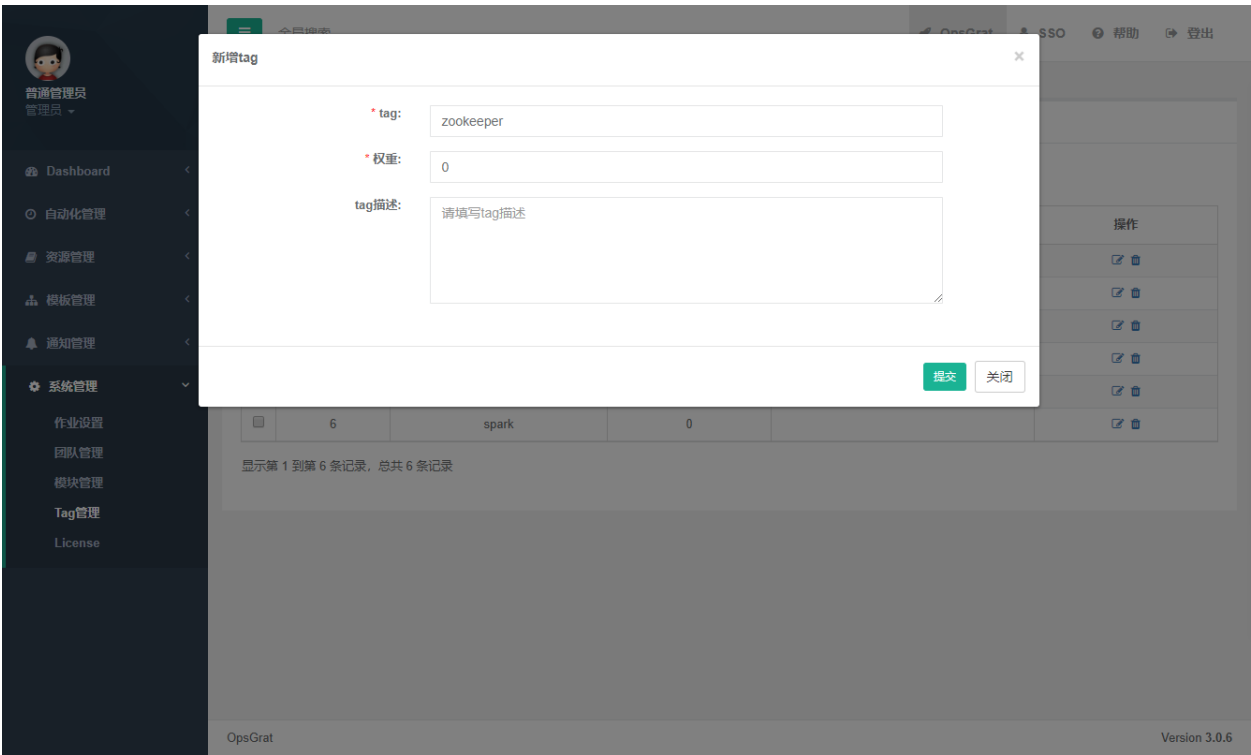
2.7.4 Tag

1

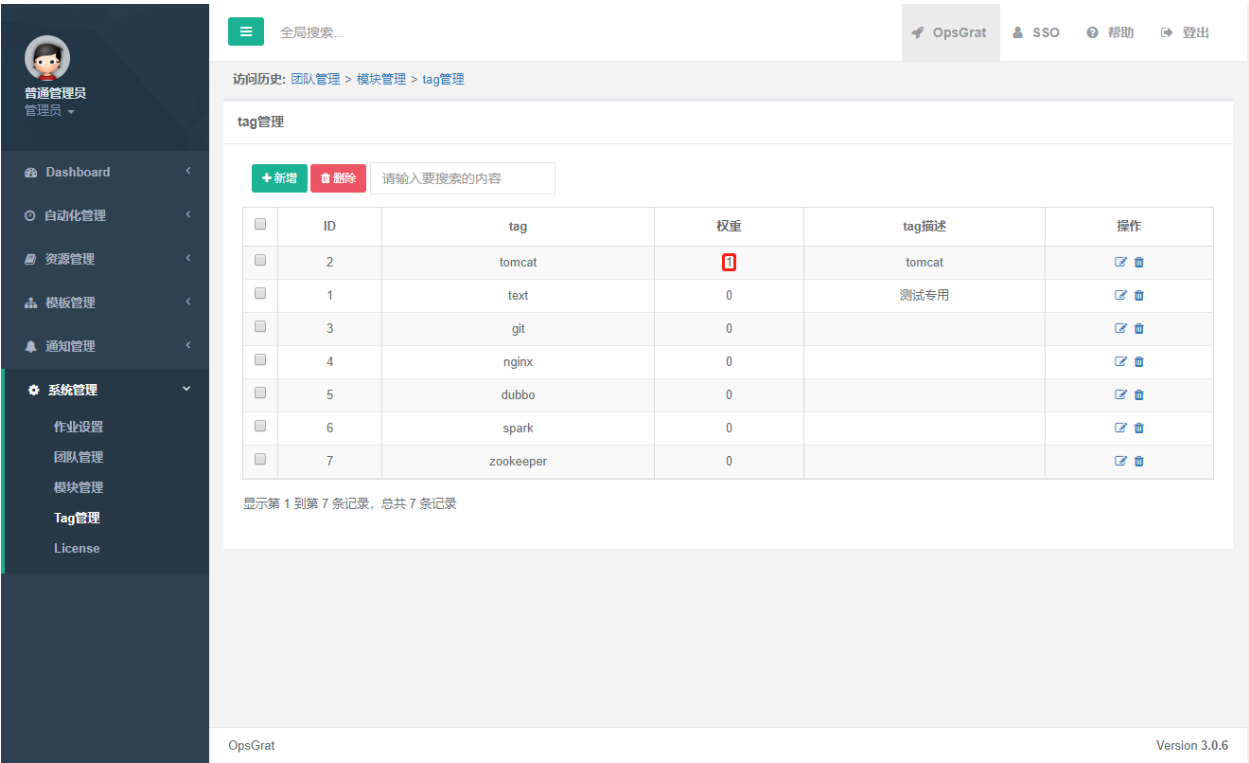
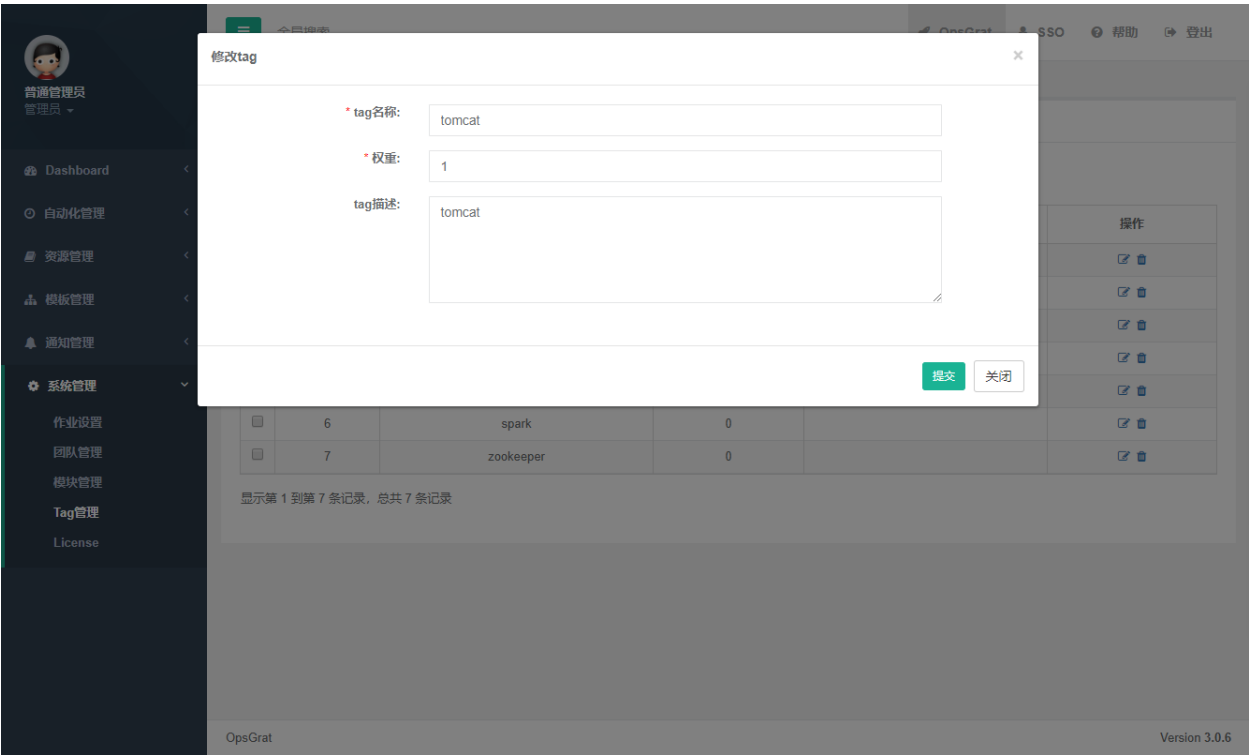
```
playbook tag      tags skip_tags
" " "Tag "
```

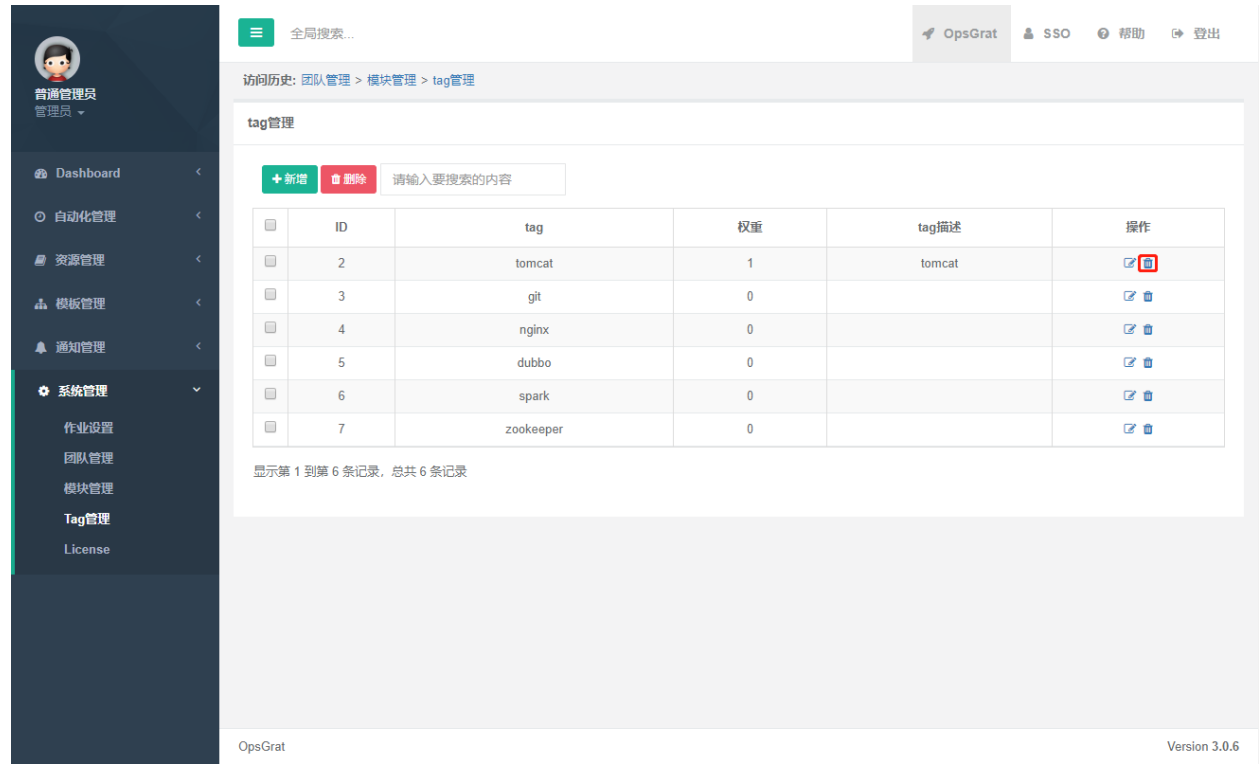
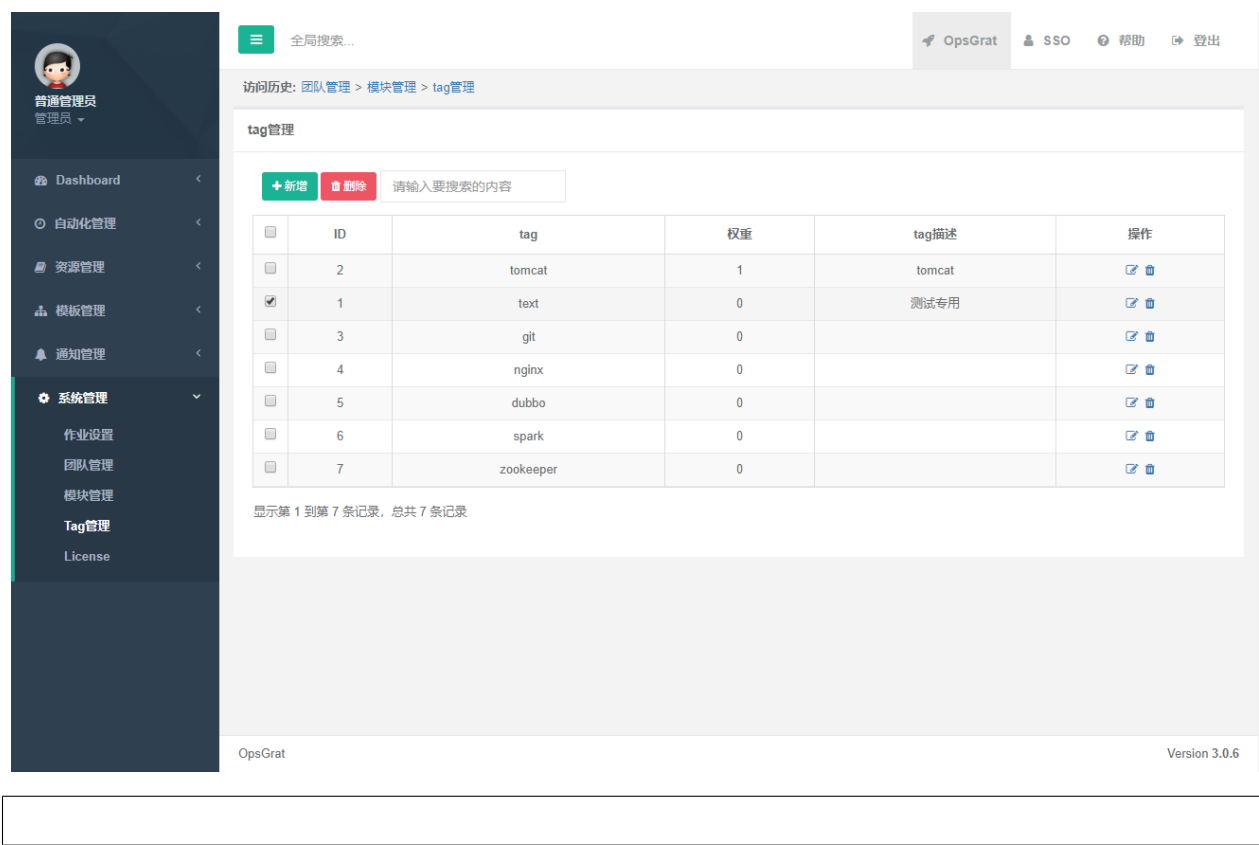



" " "zookeeper" tag



137





4

"tag" "tag "



普通管理员

管理员

Dashboard

自动化管理

资源管理

模板管理

通知管理

系统管理

作业设置

团队管理

模块管理

Tag管理

License

全局搜索...

OpsGrat

SSO

帮助

登出

访问历史: 团队管理 > 模块管理 > tag管理

tag管理

+ 新增

删除

0

	ID	tag	权重	tag描述	操作
☐	2	tomcat	1	tomcat	编辑 删除
☐	5	dubbo	0		编辑 删除
☐	7	zookeeper	0		编辑 删除

显示第 1 到第 3 条记录, 总共 3 条记录

OpsGrat

Version 3.0.6

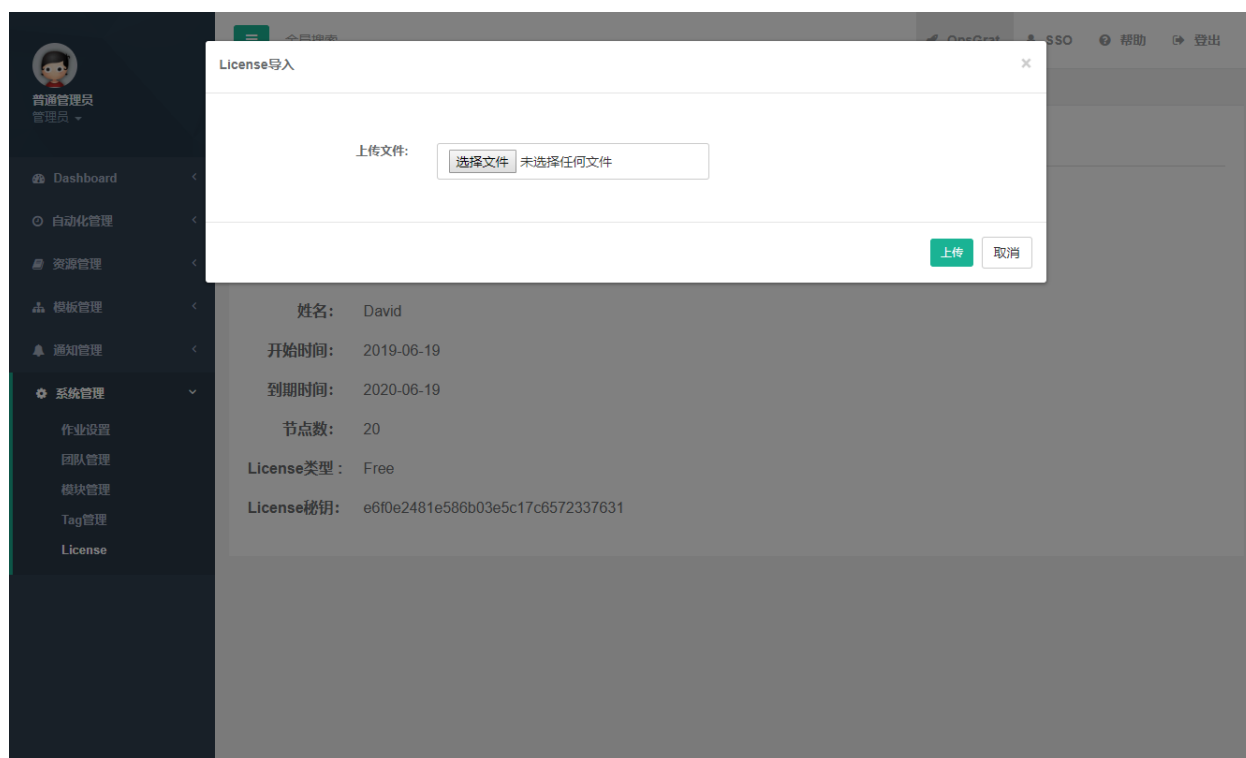
2.7.5 License

1

" " "License"



```
" " License.txt opsgrat
```

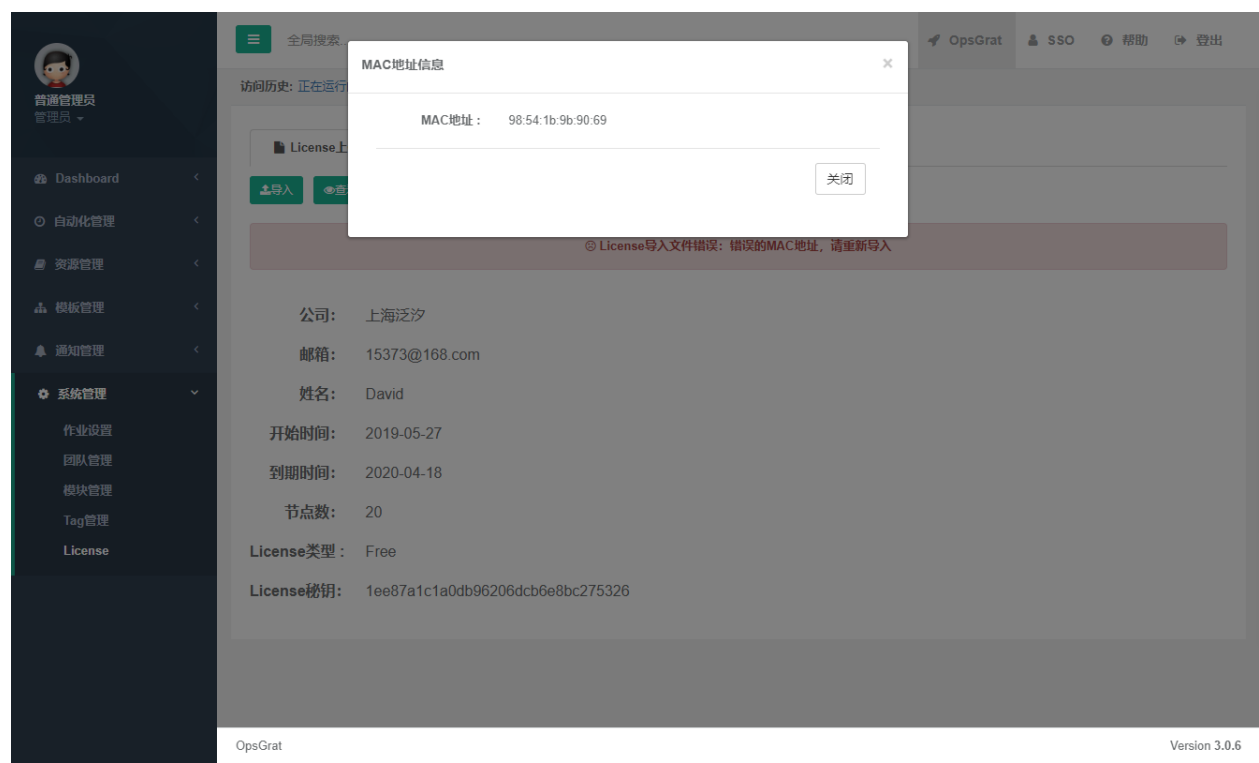


2 MAC

MAC



" MAC "	MAC
---------	-----



2.8 AD

2.8.1

OpsGrat sso settings.py

```
import ldap
AUTH_LDAP_CONNECTION_OPTIONS = {
    ldap.OPT_DEBUG_LEVEL: 1,
    ldap.OPT_REFERRALS: 0,
}
```

2.8.2 ldap

SSO “ ” “ ”

超级管理员
超级管理员

SSO

用户管理

菜单管理

日志管理

系统设置
基本设置

全局搜索...

OpsGrat SSO 帮助 登出

访问历史: 系统列表 > 子系统管理 > Idap设置

Idap设置

* LDAP 地址: 请填写LDAP 地址, 例如: ldap://10.0.1.1:389

* 绑定DN: 请填写绑定DN

* 密码: 请填写密码

* 用户OU: 请填写用户OU, 多个用户OU用换行隔开

* 用户过滤器: (&(objectClass=person)(sAMAccountName=%(user)s))

* 状态: 启用

新增

SSO Version 1.0.3

3.1

3.1.1 user

1.1 user user

1.2 main.yml

```
---
#
- hosts: all
  tasks:
    - name: Create group
      group:
        name: "{{ group_name }}"
        state: present

    - name: Create user
      user:
        name: "{{ user_name }}"
        groups: "{{ group_name }}"
        state: present

    - name: Create .ssh
      file:
        path: "/home/{{ user_name }}/.ssh"
        owner: "{{ user_name }}"
        group: "{{ group_name }}"
        mode: 0700
        state: directory
```

()

()

```
- name: Deploy authorized_keys
  copy:
    src: authorized_keys
    dest: "/home/{{ user_name }}/.ssh/authorized_keys"
    owner: "{{ user_name }}"
    group: "{{ group_name }}"
    mode: 0600
```

1.3 files authorized_keys

1.4 user GitLab http://10.12.155.111:8090/test/user.git

3.1.2

2.1 OpsGrat “ ” “ ”



2.2 “ ” “ssh” ssh

```
ssh ssh
```



2.3 GitLab “ ” “ ”

GitLab http



3.1.3 GitLab

3.1 “ ” “ ”



3.2 git

```
"git"
2.3 " GitLab "
1.4 GitLab http
/Tag master
```



3.1.4

4.1 “ ”



4.2

10.100.12.45
10.100.10.244



3.1.5

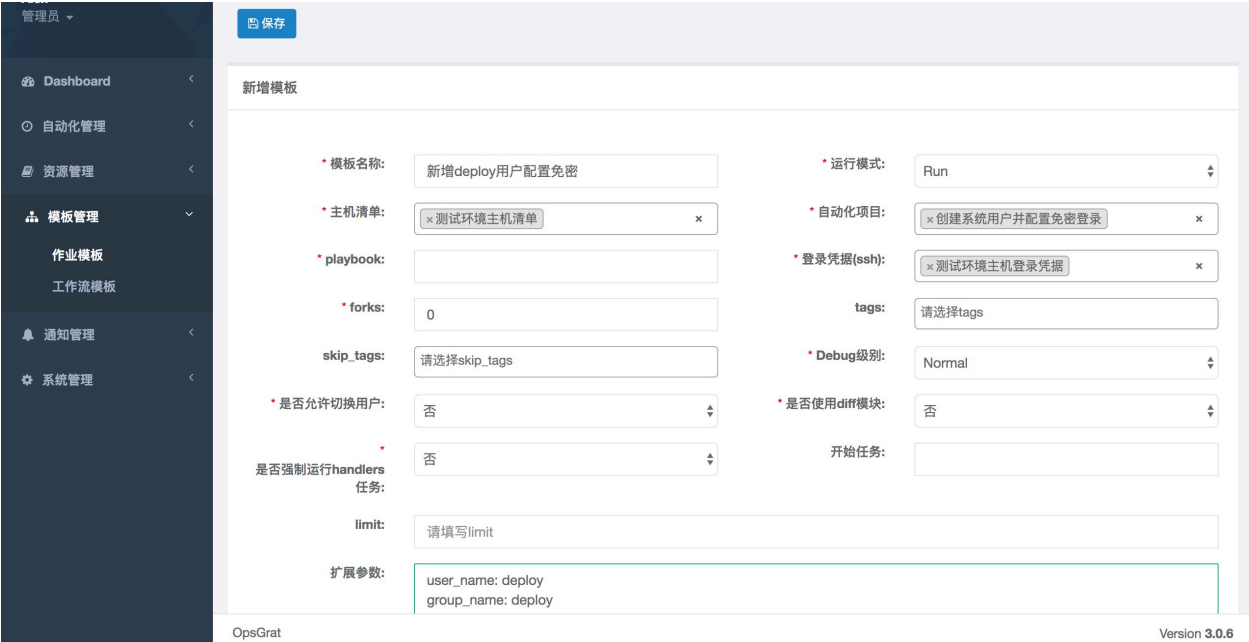
5.1 “ ” “ ”



5.2

```
deploy
4.2 "      "
3.2 "      "
playbook 1.2 playbook "main.yml"
2.2 "      "
playbook user_name group_name yaml
        user_name: deploy
        group_name: deploy

user_name group_name
```



5.3 “ ”



5.4 “ ”



3.2 Tomcat

3.2.1 Tomcat playbook

- 1.1 tomcat-install tomcat-install roles
- 1.2 tomcat roles

1. Ansible Galaxy <https://galaxy.ansible.com> tomcat
2. roles tomcat-ansible-role
3. tomcat-ansible-role github roles

The screenshot shows the Ansible Galaxy search results for 'tomcat'. The search bar at the top contains 'tomcat' and shows 167 results. The results list three roles:

- tomcat-ansible-role** by zaxos: Ansible role to install and configure Apache Tomcat on CentOS/RHEL. It has a 5/5 score, 9973 downloads, and is built passing. A red arrow points to the role name.
- tomcat-role** by idealista: Tomcat role. It has a 3.9/5 score, 22999 downloads, and is built failing.
- tomcat** by robertdebock: Install and configure tomcat on your system. It has a 5/5 score, 1047 downloads, and is built passing.

On the right side, there is a 'Popular Tags' section with the following tags and counts:

Tag	Count
system	5,925
development	2,904
web	2,443
monitoring	1,312
networking	1,063
database	1,019
cloud	951
packaging	796
ubuntu	750
docker	738

The screenshot shows the details for the 'tomcat-ansible-role' by zaxos. The role description is 'Ansible role to install and configure Apache Tomcat on CentOS/RHEL'. It has a 5/5 score and 9974 downloads. A red arrow points to the 'GitHub Repo' button.

Below the role details, there is an 'Info' section with the following information:

- Minimum Ansible Version: 2.3
- Installation: `$ ansible-galaxy install zaxos.tomcat-ansible-role`
- Last Commit: 4 months ago
- Last Import: 17 days ago
- Tags: java, system, tomcat, web

On the right side, there is a 'Content Score' section with the following information:

- Quality Score: 5/5 (Last scored 17 days ago, [Show Details](#))
- Community Score: No Surveys, 0/5 (Based on 0 surveys, [Show Details](#))

Below the scores, there is a 'Tell us about this role' section with a survey:

- Quality of docs? (5 stars)
- Ease of use? (5 stars)
- Does what it promises? (Y/N)
- Works without change? (Y/N)

- 1.3 tomcat-ansible-role-master.zip tomcat-install/roles tomcat
- 1.4 tomcat-install main.yml

```
---
# Install Tomcat

- hosts: all
```

()

```
roles:
- tomcat

tags:
- tomcat
```

1.5

```

chendeMacBook-Pro:tomcat-install chenshaodong$ tree
.
├── main.yml
├── roles
│   ├── tomcat
│   │   ├── LICENSE
│   │   ├── README.md
│   │   ├── defaults
│   │   │   ├── main.yml
│   │   ├── handlers
│   │   │   ├── main.yml
│   │   ├── meta
│   │   │   ├── main.yml
│   │   ├── tasks
│   │   │   ├── configure.yml
│   │   │   ├── install.yml
│   │   │   ├── main.yml
│   │   │   ├── set-non-production-permissions.yml
│   │   │   ├── set-production-permissions.yml
│   │   │   └── uninstall.yml
│   │   ├── templates
│   │   │   ├── host-manager-context.xml.j2
│   │   │   ├── manager-context.xml.j2
│   │   │   ├── tomcat-server-7.0.xml.j2
│   │   │   ├── tomcat-server-8.0.xml.j2
│   │   │   ├── tomcat-server-8.5.xml.j2
│   │   │   ├── tomcat-server-9.0.xml.j2
│   │   │   ├── tomcat-users-7.0.xml.j2
│   │   │   ├── tomcat-users-8.0.xml.j2
│   │   │   ├── tomcat-users-8.5.xml.j2
│   │   │   ├── tomcat-users-9.0.xml.j2
│   │   │   └── tomcat.service.j2
│   │   ├── tests
│   │   │   ├── inventory
│   │   │   └── test.yml
│   │   └── vars
│   │       └── main.yml
└── 9 directories, 26 files
chendeMacBook-Pro:tomcat-install chenshaodong$

```

1.6 tomcat-install GitLab GitLab <http://10.12.155.111:8090/test/tomcat-install.git>

3.2.2

- GitLab

2.1 OpsGrat “ ” “ ”



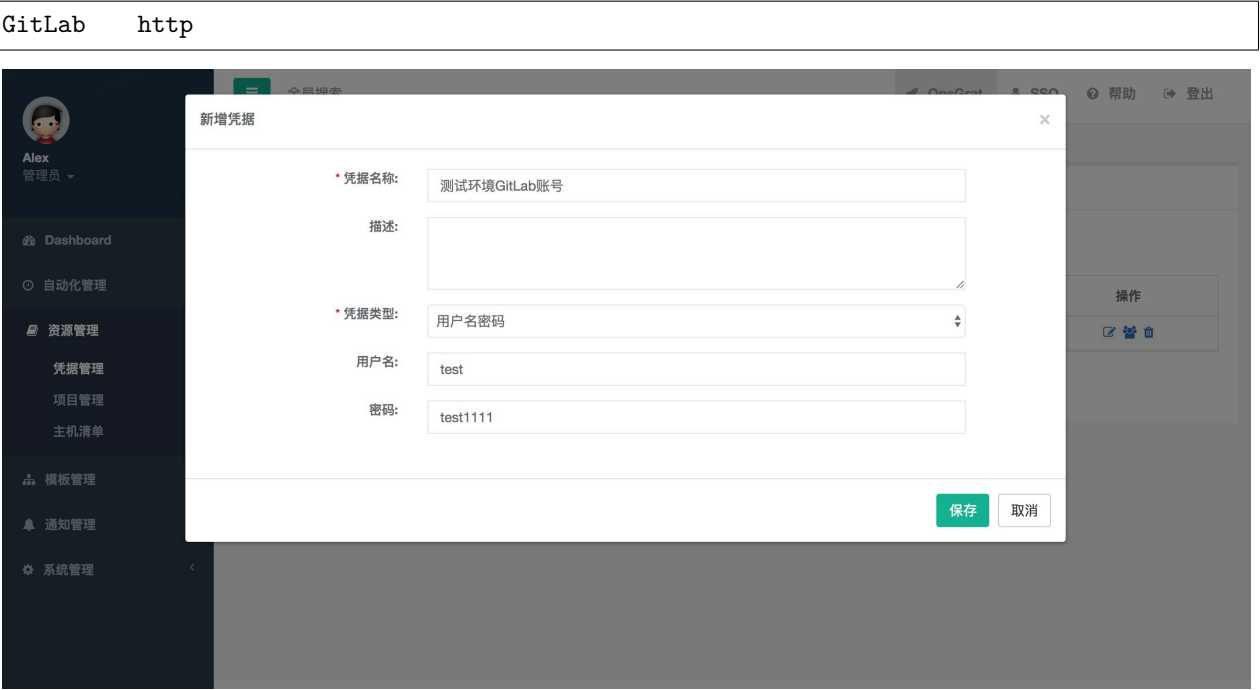
2.2 “ ” “ssh” ssh

ssh

ssh



2.3 GitLab “ ” “ ”



3.2.3 tomcat

3.1 “ ” “ ”



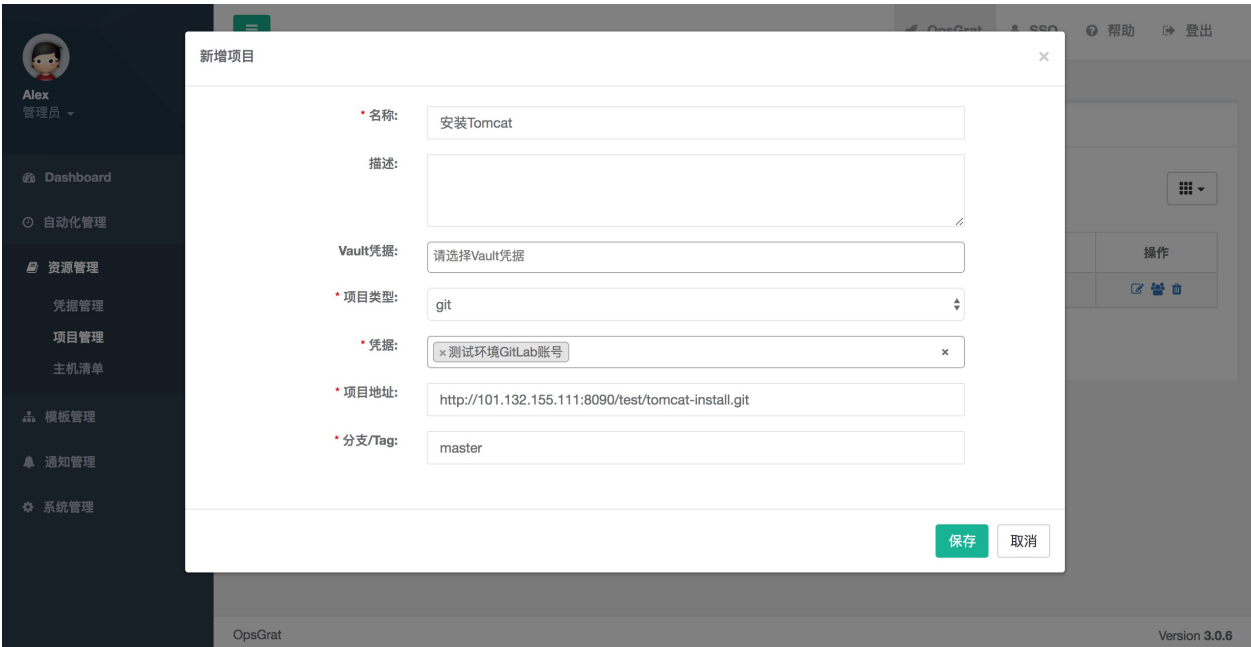
3.2 git

```
Tomcat
"git"
2.3 " GitLab "
```

()

()

1.6 GitLab http
/Tag master



3.2.4

4.1 “ ”



4.2

Tomcat
10.100.12.45
10.100.10.244



3.2.5

5.1 “ ” “ ”



5.2

```

Tomcat
4.2 " Tomcat "
3.2 " Tomcat"
playbook 1.2 playbook "main.yml"
2.2 " "
tomcat_version: 8.5.42

# Here are variables related to the Tomcat installation

http_port: 8080
https_port: 8443

# This will configure a default manager-gui user:

admin_username: admin
admin_password: admin

tomcat_downloadURL: http://mirror.bit.edu.cn/apache

```

超级管理员

Dashboard

自动化管理

资源管理

模板管理

作业模板

workflow模板

通知管理

系统管理

修改

执行

模板名称:

安装tomcat模板

运行模式:

Run

主机清单:

测试环境Tomcat主机

自动化工程:

安装Tomcat

playbook:

main.yml

登录凭据(ssh):

测试环境主机登录凭据

forks:

0

tags:

请选择tags

skip_tags:

请选择skip_tags

Debug级别:

Normal

是否允许切换用户:

否

是否使用diff模块:

否

是否强制运行handlers任务:

否

开始任务:

limit:

请填写limit

扩展参数:

tomcat_version: 8.5.42
Here are variables related to the Tomcat installation
http_port: 8080
https_port: 8443
This will configure a default manager-gui user:
admin_username: admin

描述:

请填写描述

5.3 “ ” tomcat

5.4 “ ”



超级管理员
超级管理员

Dashboard

自动化管理

作业管理

批量命令

作业执行

计划任务

资源管理

模板管理

通知管理

系统管理

访问历史: 正在运行的作业数量 > 作业管理

作业信息

作业日志

执行人: 超级管理员

模板: 安装tomcat模板

主机清单: 测试环境Tomcat主机

凭据: 测试环境主机登录凭据

开始时间: 2019-07-09 13:58:37

结束时间: 2019-07-09 14:17:11

状态: 成功

作业类型: 自动化作业

运行模式: run

playbook: main.yml

forks: 0

tags:

skip tags:

Debug级别: Normal

```
/usr/bin/ansible-playbook -i /tmp/auto_job_5994/tmp5flignex -u root --ask-pass -e @/tmp/auto_job_5994/tmpni2krwku main.yml

SSH password:

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [10.100.12.45]
ok: [10.100.10.244]

TASK [tomcat : Install Java] *****
changed: [10.100.10.244] => (item={u'package': u'java-1.8.0-openjdk'})
changed: [10.100.12.45] => (item={u'package': u'java-1.8.0-openjdk'})

TASK [tomcat : Check if tomcat is already installed] *****
ok: [10.100.10.244]
ok: [10.100.12.45]

TASK [tomcat : Create group tomcat] *****
changed: [10.100.12.45]
changed: [10.100.10.244]

TASK [tomcat : Create user tomcat] *****
changed: [10.100.10.244]
changed: [10.100.12.45]

TASK [tomcat : Create temp directory] *****
ok: [10.100.10.244]
ok: [10.100.12.45]

TASK [tomcat : Download apache-tomcat-8.5.42.tar.gz] *****
changed: [10.100.10.244]
changed: [10.100.12.45]

TASK [tomcat : Unarchive apache-tomcat-8.5.42.tar.gz at /opt] *****
changed: [10.100.10.244]
changed: [10.100.12.45]

TASK [tomcat : Clean up temporary files] *****
ok: [10.100.10.244]
ok: [10.100.12.45]

TASK [tomcat : Setup server.xml] *****
changed: [10.100.10.244]
changed: [10.100.12.45]

TASK [tomcat : Set fact of user roles to be enabled] *****

TASK [tomcat : Setup tomcat-users.xml] *****
changed: [10.100.10.244]
changed: [10.100.12.45]

TASK [tomcat : Create symlink /opt/apache-tomcat-8.5.42 to /opt/tomcat] *****
changed: [10.100.10.244]
changed: [10.100.12.45]

TASK [tomcat : Configure access to Manager app (from localhost only or from anywhere)] **
*
changed: [10.100.10.244]
changed: [10.100.12.45]

TASK [tomcat : Configure access to Host Manager (from localhost only or from anywhere)] *
**
changed: [10.100.10.244]
changed: [10.100.12.45]

TASK [tomcat : Set root directory owner/group for production installation] ****
skipping: [10.100.10.244]
skipping: [10.100.12.45]

TASK [tomcat : Set recursively directories owner/group for production installation] ***
skipping: [10.100.10.244] => (item=bin)
skipping: [10.100.10.244] => (item=conf)
skipping: [10.100.10.244] => (item=lib)
skipping: [10.100.12.45] => (item=bin)
skipping: [10.100.12.45] => (item=conf)
skipping: [10.100.12.45] => (item=lib)

TASK [tomcat : Set recursively directories owner/group for production installation] ***
skipping: [10.100.10.244] => (item=logs)
skipping: [10.100.10.244] => (item=temp)
skipping: [10.100.10.244] => (item=work)
skipping: [10.100.12.45] => (item=logs)
skipping: [10.100.12.45] => (item=temp)
skipping: [10.100.12.45] => (item=work)

TASK [tomcat : Set recursively webapps directory owner/group for production installation]
***
skipping: [10.100.10.244]
skipping: [10.100.12.45]

TASK [tomcat : Set directories permissions for production installation] *****
skipping: [10.100.10.244]
skipping: [10.100.12.45]

TASK [tomcat : Set files permissions for production installation] *****
skipping: [10.100.10.244]
```

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Chapter 3.

3.3 python3

3.3.1 python3 playbook

1.1 python3-install python3-install roles/python3/tasks

1.2 python3-install/roles/python3/tasks main.yml

```
---
# This role will install python3.6.

- name: Install Python3.6 Source.
  yum: name={{ item }} state=present
  with_items:
    - epel-release
    - https://centos7.iuscommunity.org/ius-release.rpm

- name: Install Python3.6 and pip3.6.
  yum: name={{ item }} state=present
  with_items:
    - python36u
    - python36u-devel
    - python36u-pip

- name: Create python3 link.
  file: src=/bin/python3.6 dest=/bin/python3 state=link

- name: Create pip3 link.
  file: src=/bin/pip3.6 dest=/bin/pip3 state=link
```

1.3 tomcat-install main.yml

```
---
# Install python3

- hosts: all

  roles:
    - python3

  tags:
    - python3
```

1.4

```
chendeMacBook-Pro:python3-install chenshaodong$ tree
.
├── main.yml
└── roles
    ├── python3
    │   └── tasks
    └── main.yml

3 directories, 2 files
chendeMacBook-Pro:python3-install chenshaodong$
```

1.5 python3-install GitLab GitLab <http://10.12.155.111:8090/test/python3-install.git>

3.3.2

- GitLab

2.1 OpsGrat “ ” “ ”



2.2 “ ” “ssh” ssh

ssh	ssh
-----	-----



2.3 GitLab “ ” “ ”

GitLab http



3.3.3 python3

3.1 “ ” “ ”



3.2 git

```
python3
"git"
2.3 " GitLab "
1.5 GitLab http
/Tag master
```



3.3.4

4.1 “ ”



4.2

10.100.12.45
10.100.10.244



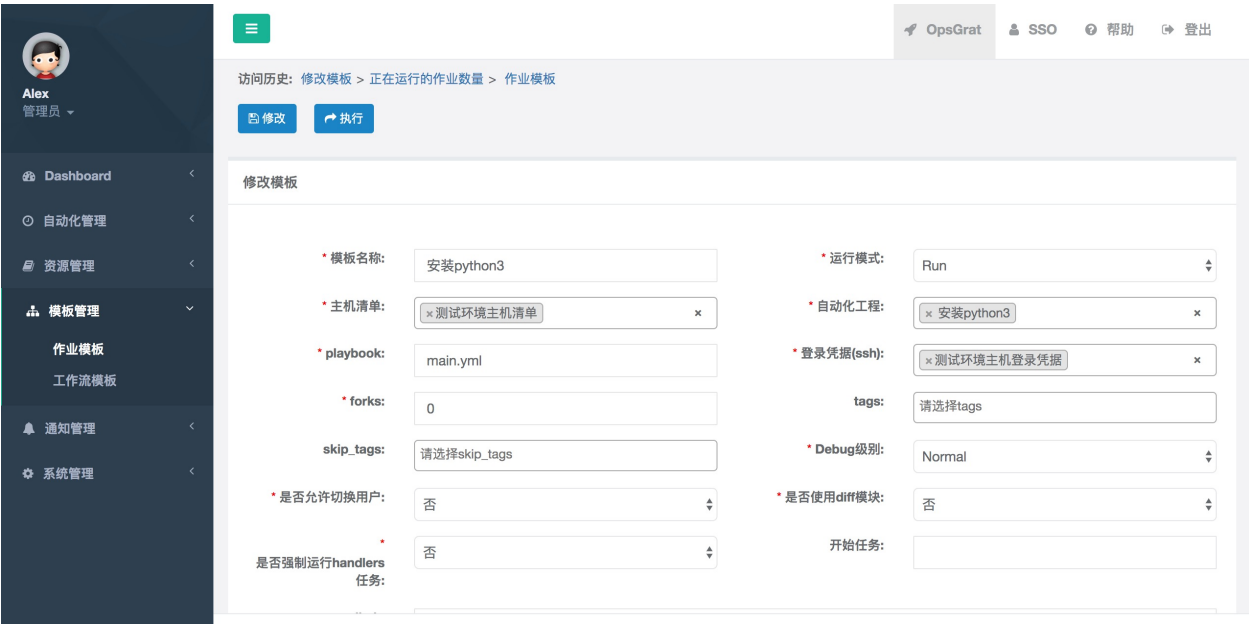
3.3.5

5.1 “ ” “ ”



5.2

```
python3
4.2 " "
3.2 " python3"
playbook 1.3 playbook "main.yml"
2.2 " "
```



5.3 “ ” python3

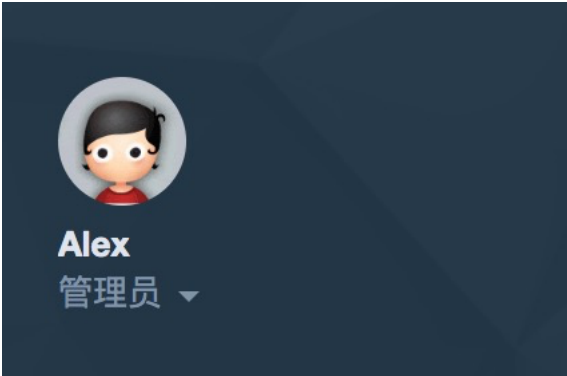
4.1 API

4.1.1 API

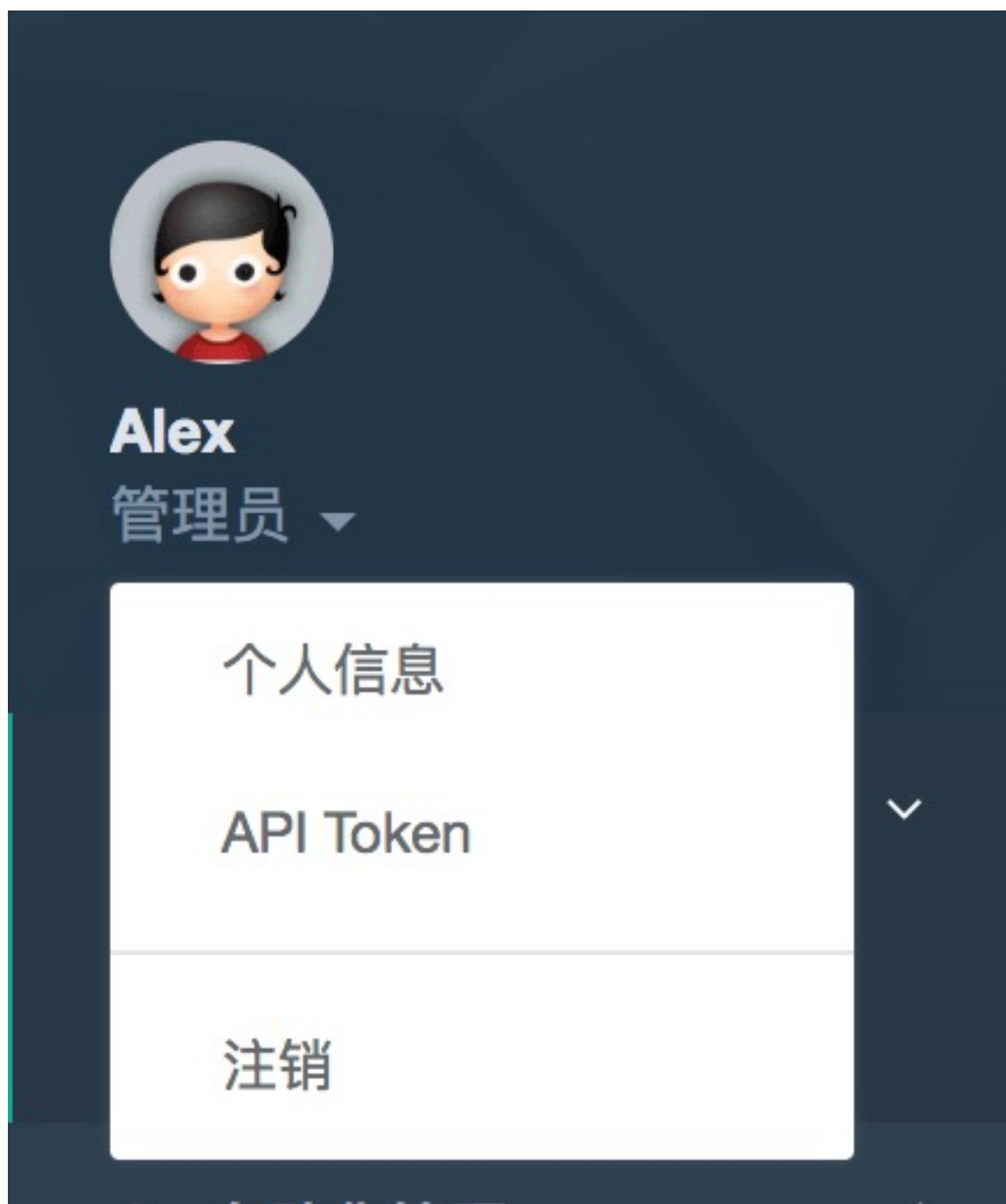
```
OpsGrat API Token      http header  Authorization
Authorization: Token 0a529467ef243ee25cf2f7dea238eab7b6c82085
0a529467ef243ee25cf2f7dea238eab7b6c82085  Token  Token
```

API Token

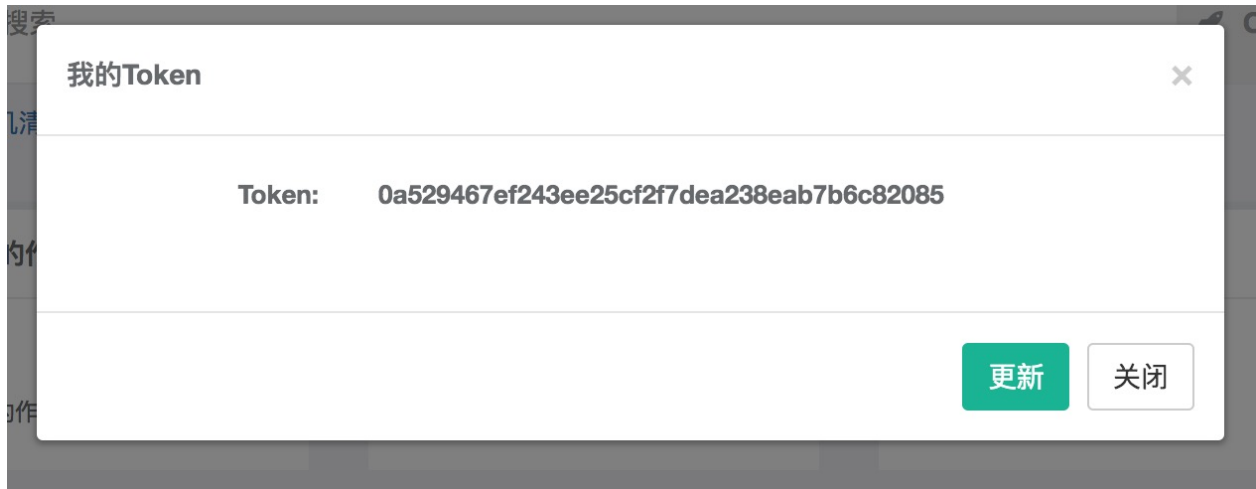
1 OpsGrat



2 "API Token"



3	" Token"	API Token
---	----------	-----------



```
curl -X GET http://127.0.0.1/api/project/inventory/ -H 'Authorization: Token↵  
↵0a529467ef243ee25cf2f7dea238eab7b6c82085'
```

4.1.2 http

- GET
- POST
- PUT
- PATCH
- DELETE

4.1.3 http

- 200
- 201
- 400
- 401
- 403
- 405 http method
- 5xx

4.1.4 Content-Type

- application/x-www-form-urlencoded
- application/json json

4.1.5

- json
- api count next previous results
- api offset limit offset limit
- api url id

api

```
{
  "count": 16,
  "next": "http://127.0.0.1/api/project/host/?limit=2&offset=2",
  "previous": null,
  "results": [
    {
      "id": 29,
      "hostname": "host1",
      "inventory_name": " ",
      "description": "",
      "status": 1,
      "variables": "",
      "inventory": 11
    },
    {
      "id": 28,
      "hostname": "host2",
      "inventory_name": " ",
      "description": "",
      "status": 1,
      "variables": "",
      "inventory": 11
    }
  ]
}
```

api

```
{
  "id": 29,
  "hostname": "host1",
  "inventory_name": " ",
  "description": "",
  "status": 1,
  "variables": "",
  "inventory": 11
}
```

4.1.6

http 201

```
{
  "id": 29,
  "hostname": "host1",
  "inventory_name": " ",
  "description": "",
  "status": 1,
  "variables": "",
  "inventory": 11
}
```

4.1.7

http 400

```
{
  "detail": "xxxx "
}
```

4.2 API

4.2.1

-

1 API

GET POST DELETE

/api/job/job/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
template	int		id
inventory	int		
credential	int		id
state	string		
kind	string		
schedule	string		

cuser	string		
last_name	string		
template	int		id
template_name	string		id
inventory	int		
inventory_name	string		
credential	int		id
credential_name	string		id
start_time	long		()
finish_time	long		()
state	string		(new- waiting- running- successful- failed-)
job_type	string		(run-Run check-Check)
project	int		id
project_name	string		id
forks	int		
limit	string		limit
tags	string		tags
skip_tags	string		skip_tags
verbosity	int		Debug (0-Normal 1-Verbose 2-More Verbose 3-Debug 4-Connection Debug)
variables	string		
inventory_str	int		
become_enabled	int		(0- 1-)
become_enabled_name	int		(0- 1-)
diff_mode	int		diff (0- 1-)
diff_mode_name	int		diff (0- 1-)
force_handlers	int		handlers (0- 1-)
force_handlers_name	int		handlers (0- 1-)
start_at_task	string		
module	string		
arguments	string		
node	int		
schedule	int		
schedule_name	string		
ctime	long		

id	int		id
cuser	string		
last_name	string		
template	int		id
template_name	string		id
inventory	int		
inventory_name	string		
credential	int		id
credential_name	string		id
start_time	long		()
finish_time	long		()
state	string		(new- waiting- running- successful- failed-)
job_type	string		(run-Run check-Check)
project	int		id
project_name	string		id
forks	int		
limit	string		limit
tags	string		tags
skip_tags	string		skip_tags
verbosity	int		Debug (0-Normal 1-Verbose 2-More Verbose 3-Debug 4-Connection Debug)
variables	string		
inventory_str	int		
become_enabled	int		(0- 1-)
become_enabled_name	int		(0- 1-)
diff_mode	int		diff (0- 1-)
diff_mode_name	int		diff (0- 1-)
force_handlers	int		handlers (0- 1-)
force_handlers_name	int		handlers (0- 1-)
start_at_task	string		
module	string		
arguments	string		
node	int		
schedule	int		
schedule_name	string		
ctime	long		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		- id - ordering=id id ordering=-id id
----------	--------	--	--

GET

```
{
  "count": 9,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1718,
      "template": null,
      "cuser": 18,
      "user": "fly yao",
      "job_type": "run",
      "inventory": 15,
      "credential": 30,
      "forks": 0,
      "limit": "",
      "tags": "",
      "skip_tags": "",
      "verbosity": 0,
      "variables": "",
      "start_time": 1561705739,
      "finish_time": 1561705740,
      "state": "failed",
      "inventory_str": "",
      "become_enabled": 0,
      "diff_mode": 0,
      "force_handlers": 0,
      "start_at_task": "",
      "inventory_name": " tomcat",
      "credential_name": " ",
      "state_name": " ",
      "playbook": "main.yml",
      "kind": "job",
      "arguments": "",
      "module": "",
      "verbosity_name": "Normal",
      "kind_name": " ",
      "job": null,
      "node": null,
      "force_handlers_name": " ",
      "diff_mode_name": " ",
      "become_enabled_name": " ",
      "schedule": null,
    }
  ]
}
```

()

()

```

    "schedule_name": null,
    "ctime": 1561705739,
    "project_name": " tomcat",
    "project": 15
  },
  {
    "id": 1716,
    "template": 28,
    "cuser": 18,
    "user": "fly yao",
    "job_type": "run",
    "inventory": 15,
    "credential": 30,
    "forks": 0,
    "limit": "",
    "tags": "",
    "skip_tags": "",
    "verbosity": 0,
    "variables": "",
    "start_time": 1561689956,
    "finish_time": 1561689957,
    "state": "failed",
    "inventory_str": "",
    "become_enabled": 0,
    "diff_mode": 0,
    "force_handlers": 0,
    "start_at_task": "",
    "inventory_name": " tomcat",
    "credential_name": " ",
    "template_name": "tomcat",
    "state_name": " ",
    "playbook": "main.yml",
    "kind": "job",
    "arguments": "",
    "module": "",
    "verbosity_name": "Normal",
    "kind_name": " ",
    "job": null,
    "node": null,
    "force_handlers_name": " ",
    "diff_mode_name": " ",
    "become_enabled_name": " ",
    "schedule": null,
    "schedule_name": null,
    "ctime": 1561689956,
    "project_name": " tomcat",
    "project": 15
  },
  {
    "id": 1715,
    "template": 28,
    "cuser": 18,

```

()

()

```

        "user": "fly yao",
        "job_type": "run",
        "inventory": 15,
        "credential": 30,
        "forks": 0,
        "limit": "",
        "tags": "",
        "skip_tags": "",
        "verbosity": 0,
        "variables": "",
        "start_time": 1561688923,
        "finish_time": 1561688924,
        "state": "failed",
        "inventory_str": "",
        "become_enabled": 0,
        "diff_mode": 0,
        "force_handlers": 0,
        "start_at_task": "",
        "inventory_name": " tomcat",
        "credential_name": " ",
        "template_name": "tomcat",
        "state_name": " ",
        "playbook": "main.yml",
        "kind": "job",
        "arguments": "",
        "module": "",
        "verbosity_name": "Normal",
        "kind_name": " ",
        "job": null,
        "node": null,
        "force_handlers_name": " ",
        "diff_mode_name": " ",
        "become_enabled_name": " ",
        "schedule": null,
        "schedule_name": null,
        "ctime": 1561688923,
        "project_name": " tomcat",
        "project": 15
    }
}

```

```

{
    "id": 1715,
    "template": 28,
    "cuser": 18,
    "user": "fly yao",
    "job_type": "run",
    "inventory": 15,
    "credential": 30,

```

()

()

```

"forks": 0,
"limit": "",
"tags": "",
"skip_tags": "",
"verbosity": 0,
"variables": "",
"start_time": 1561688923,
"finish_time": 1561688924,
"state": "failed",
"inventory_str": "",
"become_enabled": 0,
"diff_mode": 0,
"force_handlers": 0,
"start_at_task": "",
"inventory_name": " tomcat",
"credential_name": " ",
"template_name": "tomcat",
"state_name": " ",
"playbook": "main.yml",
"kind": "job",
"arguments": "",
"module": "",
"verbosity_name": "Normal",
"kind_name": " ",
"job": null,
"node": null,
"force_handlers_name": " ",
"diff_mode_name": " ",
"become_enabled_name": " ",
"schedule": null,
"schedule_name": null,
"ctime": 1561688923,
"project_name": " tomcat",
"project": 15
}

```

2 API

GET PUT PATCH DELETE

/api/job/job/1715/

1715	id
------	----

/ 1

```

{
  "id": 1715,
  "template": 28,
  "cuser": 18,

```

()

()

```

"user": "fly yao",
"job_type": "run",
"inventory": 15,
"credential": 30,
"forks": 0,
"limit": "",
"tags": "",
"skip_tags": "",
"verbosity": 0,
"variables": "",
"start_time": 1561688923,
"finish_time": 1561688924,
"state": "failed",
"inventory_str": "",
"become_enabled": 0,
"diff_mode": 0,
"force_handlers": 0,
"start_at_task": "",
"inventory_name": " tomcat",
"credential_name": " ",
"template_name": "tomcat",
"state_name": " ",
"playbook": "main.yml",
"kind": "job",
"arguments": "",
"module": "",
"verbosity_name": "Normal",
"kind_name": " ",
"job": null,
"node": null,
"force_handlers_name": " ",
"diff_mode_name": " ",
"become_enabled_name": " ",
"schedule": null,
"schedule_name": null,
"ctime": 1561688923,
"project_name": " tomcat",
"project": 15
}

```

•

1 API

GET POST DELETE

/api/job/schedule/

Content-Type

```
Content-Type Content-Type :  
  
application/x-www-form-urlencoded --  
application/json --      json
```

offset	int		
limit	int		
template	string		id
template_name	string		
search	string		name

name	string		
template	int		id
template_name	string		()
type	string		(cron- interval- date-)
type_name	string		()
start_time	long		()
minute	string		
hour	string		
day	string		
week	string		
month	string		
interval_type	string		seconds- minutes- hours- days- weeks-
interval_type_name	string		()
interval	int		
end_time	long		()
last_time	long		()
next_time	long		()
cuser	string		()

id	int		id
name	string		
template	int		id
template_name	string		()
type	string		(cron- interval- date-)
type_name	string		()
start_time	long		()
minute	string		
hour	string		
day	string		
week	string		
month	string		
interval_type	string		seconds- minutes- hours- days- weeks-
interval_type_name	string		()
interval	int		
end_time	long		()
last_time	long		()
next_time	long		()
cuser	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 13,
      "name": " ",
      "template_name": "workflow",
      "type": "cron",
    }
  ]
}
```

()

```

        "type_name": " ",
        "start_time": 1561708948,
        "minute": "",
        "hour": "",
        "day": "3",
        "week": "",
        "month": "",
        "interval": 10,
        "interval_type_name": " ",
        "interval_type": "seconds",
        "end_time": 1562410228,
        "template": 26,
        "cron": "* * 3 * *",
        "cuser": 48,
        "last_time": 1561708976,
        "next_time": 1562112000
    }
]
}

```

```

{
  "id": 13,
  "name": " ",
  "template_name": "workflow",
  "type": "cron",
  "type_name": " ",
  "start_time": 1561708948,
  "minute": "",
  "hour": "",
  "day": "3",
  "week": "",
  "month": "",
  "interval": 10,
  "interval_type_name": " ",
  "interval_type": "seconds",
  "end_time": 1562410228,
  "template": 26,
  "cron": "* * 3 * *",
  "cuser": 48,
  "last_time": 1561708976,
  "next_time": 1562112000
}

```

2 API

GET PUT PATCH DELETE

/api/job/schedule/13/

13 id

/ 1

```
{
  "id": 13,
  "name": "   ",
  "template_name": "workflow",
  "type": "cron",
  "type_name": "   ",
  "start_time": 1561708948,
  "minute": "",
  "hour": "",
  "day": "3",
  "week": "",
  "month": "",
  "interval": 10,
  "interval_type_name": " ",
  "interval_type": "seconds",
  "end_time": 1562410228,
  "template": 26,
  "cron": "* * 3 * *",
  "cuser": 48,
  "last_time": 1561708976,
  "next_time": 1562112000
}
```

•

1 API

GET POST DELETE

/api/job/log/

Content-Type

Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json

offset	int		
limit	int		
job	int		job id

job	int		job id
ctime	long		
log	string		

id	int		id
job	int		job id
ctime	long		
log	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 9,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1688,
      "ctime": 1561705740,
      "log": "\n\nusr/bin/ansible-playbook -i /tmp/auto_job_1718/tmpos_mosmk -u
↪root --ask-pass main.yml\n\nSSH password: \r\nERROR! Syntax Error while loading YAML.
↪\r\n mapping values are not allowed in this context\r\n\r\nThe error appears to have
↪been in '/tmp/auto_job_1718/project/roles/tomcat/tasks/main.yml': line 8, column 10,
↪but may\r\nbe elsewhere in the file depending on the exact syntax problem.\r\n\r\nThe
↪offending line appears to be:\r\n\r\n- name:Extract archive jdk\r\n  command: /bin/tar
↪xf /tmp/jdk-8u211-linux-x64.gz -C /application\r\n      ^ here\r\n",

```


()

```

        "job": 1718
    },
    {
        "id": 1687,
        "ctime": 1561698849,
        "log": "\n\nusr/bin/ansible-playbook -i /tmp/auto_job_1717/tmp7xwu64mp -u
↪root --ask-pass main.yml\n\nSSH password: \r\nERROR! Syntax Error while loading YAML.
↪\r\n mapping values are not allowed in this context\r\n\r\nThe error appears to have
↪been in '/tmp/auto_job_1717/project/roles/tomcat/tasks/main.yml': line 8, column 10,
↪but may\r\nbe elsewhere in the file depending on the exact syntax problem.\r\n\r\nThe
↪offending line appears to be:\r\n\r\n- name:Extract archive jdk\r\n command: /bin/tar
↪xf /tmp/jdk-8u211-linux-x64.gz -C /application\r\n          ^ here\r\n",
        "job": 1717
    },
    {
        "id": 1686,
        "ctime": 1561689957,
        "log": "\n\nusr/bin/ansible-playbook -i /tmp/auto_job_1716/tmp4fxky1_f -u
↪root --ask-pass main.yml\n\nSSH password: \r\nERROR! Syntax Error while loading YAML.
↪\r\n mapping values are not allowed in this context\r\n\r\nThe error appears to have
↪been in '/tmp/auto_job_1716/project/roles/tomcat/tasks/main.yml': line 8, column 10,
↪but may\r\nbe elsewhere in the file depending on the exact syntax problem.\r\n\r\nThe
↪offending line appears to be:\r\n\r\n- name:Extract archive jdk\r\n command: /bin/tar
↪xf /tmp/jdk-8u211-linux-x64.gz -C /application\r\n          ^ here\r\n",
        "job": 1716
    },
    {
        "id": 1685,
        "ctime": 1561688924,
        "log": "\n\nusr/bin/ansible-playbook -i /tmp/auto_job_1715/tmp76x4cjpx -u
↪root --ask-pass main.yml\n\nSSH password: \r\nERROR! Syntax Error while loading YAML.
↪\r\n mapping values are not allowed in this context\r\n\r\nThe error appears to have
↪been in '/tmp/auto_job_1715/project/roles/tomcat/tasks/main.yml': line 8, column 10,
↪but may\r\nbe elsewhere in the file depending on the exact syntax problem.\r\n\r\nThe
↪offending line appears to be:\r\n\r\n- name:Extract archive jdk\r\n command: /bin/tar
↪xf /tmp/jdk-8u211-linux-x64.gz -C /application\r\n          ^ here\r\n",
        "job": 1715
    }
]
}

```

```

{
    "id": 1685,
    "ctime": 1561688924,
    "log": "\n\nusr/bin/ansible-playbook -i /tmp/auto_job_1715/tmp76x4cjpx -u root --
↪ask-pass main.yml\n\nSSH password: \r\nERROR! Syntax Error while loading YAML.\r\n
↪mapping values are not allowed in this context\r\n\r\nThe error appears to have been
↪in '/tmp/auto_job_1715/project/roles/tomcat/tasks/main.yml': line 8, column 10, but
↪may\r\nbe elsewhere in the file depending on the exact syntax problem.\r\n\r\nThe
↪offending line appears to be:\r\n\r\n- name:Extract archive jdk\r\n command: /bin/tar
↪xf /tmp/jdk-8u211-linux-x64.gz -C /application\r\n          ^ here\r\n",
}
( )

```

()

```
}
  "job": 1715
}
```

2 API

GET PUT PATCH DELETE

/api/job/log/1685/

```
1685 id
```

/ 1

```
{
  "id": 1685,
  "ctime": 1561688924,
  "log": "\n\n/usr/bin/ansible-playbook -i /tmp/auto_job_1715/tmp76x4cjpx -u root --
→ask-pass main.yml\n\nSSH password: \r\nERROR! Syntax Error while loading YAML.\r\n
→mapping values are not allowed in this context\r\n\r\nThe error appears to have been
→in '/tmp/auto_job_1715/project/roles/tomcat/tasks/main.yml': line 8, column 10, but
→may\r\nbe elsewhere in the file depending on the exact syntax problem.\r\n\r\nThe
→offending line appears to be:\r\n\r\n- name:Extract archive jdk\r\n  command: /bin/tar
→xf /tmp/jdk-8u211-linux-x64.gz -C /application\r\n      ^ here\r\n",
  "job": 1715
}
```

•

1 API

GET POST DELETE

/api/job/schedule/permission/users/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
username	string		
search	string		username data

username	string		
last_name	string		
data	int		
data_name	string		
permission	string		(read- write- admin-)

id	int		id
username	string		
last_name	string		
data	int		
data_name	string		
permission	string		(read- write- admin-)

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=id id

GET

```
{
  "count": 2,
  "next": null,
  "previous": null,
```

()

()

```

"results": [
  {
    "id": 9,
    "username": 1,
    "data": 8,
    "permission": "admin",
    "permission_name": " ",
    "last_name": " ",
    "data_name": " "
  },
  {
    "id": 8,
    "username": 1,
    "data": 7,
    "permission": "admin",
    "permission_name": " ",
    "last_name": " ",
    "data_name": " "
  }
]
}

```

```

{
  "id": 8,
  "username": 1,
  "data": 7,
  "permission": "admin",
  "permission_name": " ",
  "last_name": " ",
  "data_name": " "
}

```

2 API

GET PUT PATCH DELETE

/api/job/schedule/permission/users/8/

8	id
---	----

/ 1

```

{
  "id": 8,
  "username": 1,
  "data": 7,
  "permission": "admin",
  "permission_name": " ",

```

()

()

```
"last_name": " ",
"data_name": " "
}
```

•

1 API

GET POST DELETE
/api/job/schedule/permission/team/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
team	string		
data	string		
search	string		team data

team	string		
team_name	string		
data	int		
data_name	string		
permission	string		(read- write- admin-)
permission_name	string		(read- write- admin-)

id	int		id
team	string		
team_name	string		
data	int		
data_name	string		
permission	string		(read- write- admin-)
permission_name	string		(read- write- admin-)

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=id id

GET

```
{
  "count": 2,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 10,
      "team": 7,
      "data": 8,
      "permission": "admin",
      "permission_name": " ",
      "data_name": " 1",
      "team_name": " 1 "
    },
    {
      "id": 9,
      "team": 9,
      "data": 8,
      "permission": "admin",
      "permission_name": " ",
      "data_name": " 1",
      "team_name": " "
    }
  ]
}
```

()

()

```
]
}
```

```
{
  "id": 10,
  "team": 7,
  "data": 8,
  "permission": "admin",
  "permission_name": " ",
  "data_name": " 1",
  "team_name": " 1 "
}
```

2 API

GET PUT PATCH DELETE

/api/job/schedule/permission/team/10/

10	id
----	----

/ 1

```
{
  "id": 10,
  "team": 7,
  "data": 8,
  "permission": "admin",
  "permission_name": " ",
  "data_name": " 1",
  "team_name": " 1 "
}
```

4.2.2

•

1 API

GET POST DELETE

/api/project/credential/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json --      json
```

offset	int		
limit	int		
name	string		
search	string		name user_name

id	int		credential id
name	string		
description	string		
type	string		()
type_name	string		()
user_name	string		
password	string		
private_key	string		ssh
passphrase	string		ssh
become_method	string		
become_user	string		
become_pass	string		
vault_password	string		Vault
vault_id	string		Vault Id
key_id	string		Key Id
key_secret	string		Key Secret

name	string		
description	string		
type	string		()
type_name	string		()
user_name	string		
password	string		
private_key	string		ssh
passphrase	string		ssh
become_method	string		
become_user	string		
become_pass	string		
vault_password	string		Vault
vault_id	string		Vault Id
key_id	string		Key Id
key_secret	string		Key Secret

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 2,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 2,
      "name": "111",
      "description": "1111",
      "type": "ssh",
      "type_name": "ssh",
      "user_name": " ",
      "password": "1111",
      "private_key": "1111",
      "passphrase": "1111",

```

()

()

```

        "become_method": "sudo",
        "become_user": "111",
        "become_pass": "111",
        "vault_password": "",
        "vault_id": "",
        "key_id": "",
        "key_secret": "",
        "cuser": 1
    },
    {
        "id": 1,
        "name": " ",
        "description": "1111",
        "type": "user_pwd",
        "type_name": " ",
        "user_name": "",
        "password": "",
        "private_key": "",
        "passphrase": "",
        "become_method": "sudo",
        "become_user": "",
        "become_pass": "",
        "vault_password": "",
        "vault_id": "",
        "key_id": "",
        "key_secret": "",
        "cuser": 1
    }
]
}

```

```

{
    "id": 1,
    "name": " ",
    "description": "1111",
    "type": "user_pwd",
    "type_name": " ",
    "user_name": "",
    "password": "",
    "private_key": "",
    "passphrase": "",
    "become_method": "sudo",
    "become_user": "",
    "become_pass": "",
    "vault_password": "",
    "vault_id": "",
    "key_id": "",
    "key_secret": "",
    "cuser": 1
}

```

2 API

GET PUT PATCH DELETE

/api/project/credential/1/

```
1 id
```

/ 1

```
{
  "id": 1,
  "name": " ",
  "description": "1111",
  "type": "user_pwd",
  "type_name": " ",
  "user_name": "",
  "password": "",
  "private_key": "",
  "passphrase": "",
  "become_method": "sudo",
  "become_user": "",
  "become_pass": "",
  "vault_password": "",
  "vault_id": "",
  "key_id": "",
  "key_secret": "",
  "cuser": 1
}
```

•

1 API

GET POST DELETE

/api/project/project/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
name	string		
search	string		name description

name	string		
credential	int		
description	string		
project_type	string		
repository_url	string		
branch_specifier	string		/Tag
playbook	string		playbook
revision	string		Revision

id	int		project id
name	string		
credential	int		
description	string		
project_type	string		
repository_url	string		
branch_specifier	string		/Tag
playbook	string		playbook
revision	string		Revision

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 13,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 17,
      "name": "tomcat playbook",
      "credential_name": "Git Lab ",
      "description": "",
      "project_type": "git",
      "repository_url": "http://101.132.155.111:8090/test/tomcat.git",
      "branch_specifier": "master",
      "playbook": "",
      "credential": 20,
      "revision": "",
      "vault_credential": null,
      "cuser": 48
    },
    {
      "id": 16,
      "name": " ",
      "credential_name": "Git Lab ",
      "description": "",
      "project_type": "git",
      "repository_url": "http://101.132.155.111:8090/test/user.git",
      "branch_specifier": "master",
      "playbook": "",
      "credential": 20,
      "revision": "",
      "vault_credential": null,
      "cuser": 48
    }
  ]
}
```

```
{
  "id": 17,
  "name": "tomcat playbook",
  "credential_name": "Git Lab ",
  "description": "",
  "project_type": "git",
  "repository_url": "http://101.132.155.111:8090/test/tomcat.git",
  "branch_specifier": "master",
  "playbook": "",
  "credential": 20,
  "revision": "",
  "vault_credential": null,
  "cuser": 48
},
```

2 API

GET PUT PATCH DELETE

/api/project/project/1/

1 id

/ 1

```
{
  "id": 1,
  "name": " ",
  "description": "",
  "project_type": "git",
  "repository_url": "http://101.132.155.111:8090/test/wordpress-nginx.git",
  "branch_specifier": "master",
  "playbook": "",
  "credential": null,
  "revision": "",
  "vault_credential": null,
  "cuser": 1
}
```

•

1 API

GET POST DELETE

/api/project/project/empowered/teams/

Content-Type

Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json

offset	int		
limit	int		
name	string		
search	string		team

team	int		
permission	string		
permission_name	string		()

id	int		credential_team_permissions id
team	int		
data	int		inventory id
permission	string		
permission_name	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
      "team": 1,
      "data_name": " ",
      "data": 4,
      "permission": "write",
      "team_name": " ",
      "permission_name": " & "
    }
  ]
}
```

```
{
  "id": 1,
  "team": 1,
  "data_name": " ",
  "data": 4,
  "permission": "write",
  "team_name": " ",
  "permission_name": " & "
}
```

2 API

GET PUT PATCH DELETE
/api/project/project/empowered/teams/1/

1	id
---	----

/ 1

```
{
  "id": 1,
  "team": 1,
  "data_name": " ",
  "data": 4,
  "permission": "write",
  "team_name": " ",
  "permission_name": " & "
}
```

•

1 API

GET POST DELETE
/api/project/project/authorized/users/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
name	string		
search	string		username

username	string		
last_name	string		()
permission	string		
permission_name	string		()

id	int		credential_user_permissions id
username	string		
last_name	string		()
data	int		inventory id
permission	string		
permission_name	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 2,
  "next": null,
  "previous": null,
  "results": [
    {
      ( )
```

()

```

        "id": 5,
        "username": "fxadmin",
        "data_name": "    ",
        "data": 4,
        "permission": "admin",
        "permission_name": " ",
        "last_name": "  "
      },
      {
        "id": 4,
        "username": "tst",
        "data_name": "    ",
        "data": 4,
        "permission": "admin",
        "permission_name": " ",
        "last_name": "Alex"
      }
    ]
  }
}

```

```

{
  "id": 5,
  "username": "fxadmin",
  "data_name": "    ",
  "data": 4,
  "permission": "admin",
  "permission_name": " ",
  "last_name": "  "
},

```

2 API

GET PUT PATCH DELETE

/api/project/project/authorized/users/5/

5	id
---	----

/ 1

```

{
  "id": 5,
  "username": "fxadmin",
  "data_name": "    ",
  "data": 4,
  "permission": "admin",
  "permission_name": " ",

```

()

()

```
    "last_name": "  "
  },
```

•

1 API

GET POST DELETE
/api/project/inventory/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json --      json
```

offset	int		
limit	int		
name	string		
search	string		name description

name	string		
description	string		
variables	string		
inventory	string		

id	int		inventory id
name	string		
description	string		
variables	string		
inventory	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 9,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 18,
      "cuser": 48,
      "name": " ",
      "description": "",
      "variables": ""
    },
    {
      "id": 17,
      "cuser": 48,
      "name": "1234",
      "description": "",
      "variables": ""
    }
  ]
}
```

```
{
  "id": 18,
  "cuser": 48,
  "name": " ",
  "description": "",
  "variables": ""
},
```

2 API

GET PUT PATCH DELETE

/api/project/inventory/18/

18	id
----	----

/ 1

```
{
  "id": 18,
  "cuser": 48,
  "name": " ",
  "description": "",
  "variables": ""
},
```

•

1 API

GET POST DELETE

/api/project/group/children/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
name	string		

group_id	int		
child_id	int		

id	int		group_children id
group_id	int		
child_id	int		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 5,
      "group": 1,
      "group_name": " group",
      "child_name": " group",
      "child": 1
    }
  ]
}
```

```
{
  "id": 5,
  "group": 1,
  "group_name": " group",
  "child_name": " group",
  "child": 1
}
```

2 API

GET PUT PATCH DELETE

/api/project/group/children/5/

5	id
---	----

/ 1

{
"id": 5,
"group": 1,
"group_name": " group",
"child_name": " group",
"child": 1
}

•

1 API

GET POST DELETE

/api/project/credential/empowered/teams/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
name	string		
search	string		team

team	int		
permission	string		
permission_name	string		()

id	int		credential_team_permissions id
team	int		
data	int		inventory id
permission	string		
permission_name	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 2,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 7,
      "team": 11,
      "data_name": "test2",
      "data": 31,
      "permission": "write",
      "team_name": " 2 ",
      "permission_name": " "
    },
    {
      "id": 5,
      "team": 2,
      "data_name": "  ",
      "data": 8,
      "permission": "",
      "team_name": "  ",
      "permission_name": null
    }
  ]
}
```



```
{
  "id": 7,
  "team": 11,
  "data_name": "test2",
  "data": 31,
  "permission": "write",
  "team_name": " 2 ",
  "permission_name": " "
},
```

2 API

GET PUT PATCH DELETE

/api/project/credential/empowered/teams/7/

7	id
---	----

/ 1

```
{
  "id": 7,
  "team": 11,
  "data_name": "test2",
  "data": 31,
  "permission": "write",
  "team_name": " 2 ",
  "permission_name": " "
},
```

•

1 API

GET POST DELETE

/api/project/credential/authorized/users/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
name	string		
search	string		username

username	string		
last_name	string		()
permission	string		
permission_name	string		()

id	int		credential_user_permissions id
username	string		
last_name	string		()
data	int		inventory id
permission	string		
permission_name	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 27,
  "next": "http://43.247.90.245/api/project/credential/authorized/users/?limit=20&offset=20",
  "previous": null,
  "results": [
```

()

```

{
  {
    "id": 50,
    "username": 50,
    "data_name": "  root  ",
    "data": 29,
    "permission": "admin",
    "permission_name": " ",
    "last_name": "  "
  },
  {
    "id": 49,
    "username": 1,
    "data_name": "pip",
    "data": 32,
    "permission": "admin",
    "permission_name": " ",
    "last_name": "  "
  },
}
]
}

```

```

{
  "id": 50,
  "username": 50,
  "data_name": "  root  ",
  "data": 29,
  "permission": "admin",
  "permission_name": " ",
  "last_name": "  "
},

```

2 API

GET PUT PATCH DELETE

/api/project/credential/authorized/users/50/

50	id
----	----

/ 1

```

{
  "id": 50,
  "username": 50,
  "data_name": "  root  ",
  "data": 29,
  "permission": "admin",
  "permission_name": " ",

```

()

()

```
    "last_name": "  "
  },
```

•

1 API

GET POST DELETE
/api/project/hosts/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json --      json
```

offset	int		
limit	int		
name	string		
search	string		host_id

group_id	int		
host_id	int		

id	int		group_host id
group_id	int		
host_id	int		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 5,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 21,
      "group": 10,
      "host_name": "47.106.87.210",
      "host": 34
    },
    {
      "id": 19,
      "group": 8,
      "host_name": "106.13.56.72",
      "host": 13
    }
  ]
}
```

```
{
  "id": 21,
  "group": 10,
  "host_name": "47.106.87.210",
  "host": 34
}
```

2 API

GET PUT PATCH DELETE
/api/project/hosts/21/

21	id
----	----

/ 1

```
{
  "id": 21,
  "group": 10,
  "host_name": "47.106.87.210",
  "host": 34
}
```

•

1 API

GET POST DELETE
/api/project/host/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json --      json
```

offset	int		
limit	int		
name	string		
search	string		hostname description

hostname	string		
inventory_id	int		inventory id
description	string		
status	int		
variables	string		

id	int		host id
hostname	string		
inventory_id	int		inventory id
description	string		
status	int		
variables	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 18,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 34,
      "hostname": "47.106.87.210",
      "inventory_name": " ",
      "description": "",
      "status": 1,
      "variables": "",
      "inventory": 18
    },
    {
      "id": 33,
      "hostname": "1234",
      "inventory_name": "1234",
      "description": "",
      "status": 1,
      "variables": "",
      "inventory": 17
    }
  ]
}
```

```
{
  "id": 34,
  "hostname": "47.106.87.210",
  "inventory_name": " ",
  "description": "",
  "status": 1,
  "variables": "",
  "inventory": 18
},
```

2 API

GET PUT PATCH DELETE
/api/project/host/1/

```
1 id
```

/ 1

```
{
  "id": 1,
  "hostname": "101.10.10.1",
  "inventory_name": " ",
  "description": "",
  "status": 1,
  "variables": "",
  "inventory": 4
}
```

•

1 API

GET POST DELETE
/api/project/group/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```


offset	int		
limit	int		
name	string		
search	string		name description

name	string		
inventory_id	int		inventory id
description	string		
variables	string		

id	int		host_group id
name	string		
inventory_id	int		inventory id
description	string		
variables	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 4,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 10,
```

()

()

```

        "name": "tomcat-servers",
        "inventory_name": " ",
        "description": "",
        "variables": "",
        "inventory": 18
    },
    {
        "id": 8,
        "name": " ",
        "inventory_name": " ",
        "description": "",
        "variables": "",
        "inventory": 9
    }
]
}

```

```

{
    "id": 10,
    "name": "tomcat-servers",
    "inventory_name": " ",
    "description": "",
    "variables": "",
    "inventory": 18
},

```

2 API

GET PUT PATCH DELETE

/api/project/group/1/

1	id
---	----

/ 1

```

{
    "id": 1,
    "name": " group",
    "inventory_name": " ",
    "description": "",
    "variables": "",
    "inventory": 4
}

```

•

1 API

GET POST DELETE
/api/project/inventory/empowered/teams/

Content-Type

```
Content-Type Content-Type :  
application/x-www-form-urlencoded --  
application/json -- json
```

offset	int		
limit	int		
name	string		
search	string		team

team	int		
permission	string		
permission_name	string		()

id	int		credential_team_permissions id
team	int		
data	int		inventory id
permission	string		
permission_name	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
      "team": 1,
      "data_name": " ",
      "data": 3,
      "permission": "read",
      "team_name": " ",
      "permission_name": " "
    }
  ]
}
```

```
{
  "id": 1,
  "team": 1,
  "data_name": " ",
  "data": 3,
  "permission": "read",
  "team_name": " ",
  "permission_name": " "
}
```

2 API

GET PUT PATCH DELETE

/api/project/inventory/empowered/teams/1/

1	id
---	----

/ 1

```
{
  "id": 1,
  "team": 1,
  "data_name": " ",
  "data": 3,
  "permission": "read",
  "team_name": " ",
  "permission_name": " "
}
```

•

1 API

GET POST DELETE
/api/project/inventory/authorized/users/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
name	string		
search	string		username

username	string		
last_name	string		()
permission	string		
permission_name	string		()

id	int		credential_user_permissions id
username	string		
last_name	string		()
data	int		inventory id
permission	string		
permission_name	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id - ordering=id id ordering=id id

```
GET      :: {
  "count": 1, "next": null, "previous": null, "results": [
    { "id": 5, "username": "tst", "data_name": "      ", "data": 3, "permission": "ad-
      min", "permission_name": " ", "last_name": "Alex"
    }
  ]
}
```

```
{
  "id": 5,
  "username": "tst",
  "data_name": "      ",
  "data": 3,
  "permission": "admin",
  "permission_name": " ",
  "last_name": "Alex"
}
```

2 API

```
GET PUT PATCH DELETE
/api/project/inventory/authorized/users/5/
```

5	id
---	----

/ 1

```
{
  "id": 5,
  "username": "tst",
  "data_name": " ",
  "data": 3,
  "permission": "admin",
  "permission_name": " ",
  "last_name": "Alex"
}
```

4.2.3

•

1 API

GET POST DELETE
/api/template/template/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
name	string		
search	string		name description

name	string		
description	string		
template_type	string		
job_type	string		
inventory	int		
inventory_name	string		
project	int		
project_name	string		
playbook	string		playbook
credential	int		
credential_name	string		id
forks	int		
limit	string		limit
tags	string		tags
skip_tags	string		skip_tags
verbosity	int		Debug
variables	string		
become_enabled	int		
become_enabled_name	string		
diff_mode	int		diff
diff_mode_name	string		diff
force_handlers	int		handlers
force_handlers_name	string		handlers
start_at_task	string		
cuser	string		
bind_templates	int		
is_bind_templates	int		

id	int		template id
name	string		
description	string		
template_type	string		
job_type	string		
inventory	int		
inventory_name	string		
project	int		
project_name	string		
playbook	string		playbook
credential	int		
credential_name	string		id
forks	int		
limit	string		limit
tags	string		tags
skip_tags	string		skip_tags
verbosity	int		Debug
variables	string		
become_enabled	int		
become_enabled_name	string		
diff_mode	int		diff
diff_mode_name	string		diff
force_handlers	int		handlers
force_handlers_name	string		handlers
start_at_task	string		
cuser	string		
bind_templates	int		
is_bind_templates	int		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=-id id

GET

```
{
  "count": 9,
}
```

()

```

"next": null,
"previous": null,
"results": [
  {
    "id": 31,
    "description": "",
    "template_type": "job",
    "job_type": "run",
    "playbook": "site.yml",
    "credential": 29,
    "inventory": 18,
    "inventory_name": " ",
    "project_name": "tomcat playbook",
    "project": 17,
    "forks": 0,
    "limit": "",
    "verbosity": 0,
    "become_enabled": 0,
    "variables": "tomcat_version: 8.5.42\r\n\r\n# Here are variables related to
↪the Tomcat installation\r\n\r\nhttp_port: 8080\r\nhttps_port: 8443\r\n\r\n# This will
↪configure a default manager-gui user:\r\n\r\nadmin_username: admin\r\nadmin_password:
↪admin\r\n\r\ntomcat_downloadURL: http://mirror.bit.edu.cn/apache",
    "credential_name": " root ",
    "name": "tomcat ",
    "diff_mode": 0,
    "force_handlers": 0,
    "start_at_task": "",
    "tags": "",
    "skip_tags": "",
    "jobtype_name": "Run",
    "verbosity_name": "Normal",
    "cuser": 48,
    "bind_templates": [],
    "is_bind_templates": " "
  },
  {
    "id": 30,
    "description": "",
    "template_type": "job",
    "job_type": "run",
    "playbook": "main.yml",
    "credential": 29,
    "inventory": 9,
    "inventory_name": " ",
    "project_name": " ",
    "project": 8,
    "forks": 0,
    "limit": "",
    "verbosity": 0,
    "become_enabled": 0,
    "variables": "",
    "credential_name": " root ",

```

()

()

```
        "name": "    ",
        "diff_mode": 0,
        "force_handlers": 0,
        "start_at_task": "",
        "tags": "",
        "skip_tags": "",
        "jobtype_name": "Run",
        "verbosity_name": "Normal",
        "cuser": 48,
        "bind_templates": [],
        "is_bind_templates": " "
      }
    ]
  }
```

```
{
  "id": 30,
  "description": "",
  "template_type": "job",
  "job_type": "run",
  "playbook": "main.yml",
  "credential": 29,
  "inventory": 9,
  "inventory_name": "    ",
  "project_name": "    ",
  "project": 8,
  "forks": 0,
  "limit": "",
  "verbosity": 0,
  "become_enabled": 0,
  "variables": "",
  "credential_name": "    root    ",
  "name": "    ",
  "diff_mode": 0,
  "force_handlers": 0,
  "start_at_task": "",
  "tags": "",
  "skip_tags": "",
  "jobtype_name": "Run",
  "verbosity_name": "Normal",
  "cuser": 48,
  "bind_templates": [],
  "is_bind_templates": " "
}
```

2 API

GET PUT PATCH DELETE

/api/template/template/30/

30	id
----	----

/ 1

```
{
  "id": 30,
  "description": "",
  "template_type": "job",
  "job_type": "run",
  "playbook": "main.yml",
  "credential": 29,
  "inventory": 9,
  "inventory_name": " ",
  "project_name": " ",
  "project": 8,
  "forks": 0,
  "limit": "",
  "verbosity": 0,
  "become_enabled": 0,
  "variables": "",
  "credential_name": " root ",
  "name": " ",
  "diff_mode": 0,
  "force_handlers": 0,
  "start_at_task": "",
  "tags": "",
  "skip_tags": "",
  "jobtype_name": "Run",
  "verbosity_name": "Normal",
  "cuser": 48,
  "bind_templates": [],
  "is_bind_templates": " "
}
```

•

1 API

GET POST DELETE
/api/template/template/run/

Content-Type

Content-Type Content-Type :

()

()

```
application/x-www-form-urlencoded --
application/json --      json
```

offset	int		
limit	int		
name	string		

id	int		id
name	string		
variables	string		
inventory_str	string		

job api /api/job/job/

http method:

get ——— post ———

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id - ordering=id id ordering=id id

GET

```
{
  "count": 9,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 31,
```

()

()

```

        "description": "",
        "template_type": "job",
        "job_type": "run",
        "playbook": "site.yml",
        "credential": 29,
        "inventory": 18,
        "inventory_name": " ",
        "project_name": "tomcat playbook",
        "project": 17,
        "forks": 0,
        "limit": "",
        "verbosity": 0,
        "become_enabled": 0,
        "variables": "tomcat_version: 8.5.42\r\n\r\n# Here are variables related to
↪the Tomcat installation\r\n\r\nhttp_port: 8080\r\nhttps_port: 8443\r\n\r\n# This will
↪configure a default manager-gui user:\r\n\r\nadmin_username: admin\r\nadmin_password:
↪admin\r\n\r\ntomcat_downloadURL: http://mirror.bit.edu.cn/apache",
        "credential_name": " root ",
        "name": "tomcat ",
        "diff_mode": 0,
        "force_handlers": 0,
        "start_at_task": "",
        "tags": "",
        "skip_tags": "",
        "jobtype_name": "Run",
        "verbosity_name": "Normal",
        "cuser": 48,
        "bind_templates": [],
        "is_bind_templates": " "
    },
    {
        "id": 30,
        "description": "",
        "template_type": "job",
        "job_type": "run",
        "playbook": "main.yml",
        "credential": 29,
        "inventory": 9,
        "inventory_name": " ",
        "project_name": " ",
        "project": 8,
        "forks": 0,
        "limit": "",
        "verbosity": 0,
        "become_enabled": 0,
        "variables": "",
        "credential_name": " root ",
        "name": " ",
        "diff_mode": 0,
        "force_handlers": 0,
        "start_at_task": "",
        "tags": "",

```

()

()

```

        "skip_tags": "",
        "jobtype_name": "Run",
        "verbosity_name": "Normal",
        "cuser": 48,
        "bind_templates": [],
        "is_bind_templates": " "
    }
]
}

```

```

{
  "id": 31,
  "description": "",
  "template_type": "job",
  "job_type": "run",
  "playbook": "site.yml",
  "credential": 29,
  "inventory": 18,
  "inventory_name": " ",
  "project_name": "tomcat playbook",
  "project": 17,
  "forks": 0,
  "limit": "",
  "verbosity": 0,
  "become_enabled": 0,
  "variables": "tomcat_version: 8.5.42\r\n\r\n# Here are variables related to the
→Tomcat installation\r\n\r\n\r\nhttp_port: 8080\r\n\r\nhttps_port: 8443\r\n\r\n\r\n# This will
→configure a default manager-gui user:\r\n\r\n\r\nnadmin_username: admin\r\n\r\nnadmin_password:
→admin\r\n\r\n\r\ntomcat_downloadURL: http://mirror.bit.edu.cn/apache",
  "credential_name": "  root  ",
  "name": "tomcat ",
  "diff_mode": 0,
  "force_handlers": 0,
  "start_at_task": "",
  "tags": "",
  "skip_tags": "",
  "jobtype_name": "Run",
  "verbosity_name": "Normal",
  "cuser": 48,
  "bind_templates": [],
  "is_bind_templates": " "
}

```

2 API

GET PUT PATCH DELETE

/api/template/template/run/31/

31 id

```
/ 1
:: {
  "id": 31, "description": "", "template_type": "job", "job_type": "run",
  "playbook": "site.yml", "credential": 29, "inventory": 18, "inventory_name":
  "", "project_name": "tomcat playbook", "project": 17, "forks": 0,
  "limit": "", "verbosity": 0, "become_enabled": 0, "variables": "tom-
  cat version: 8.5.42\r\n\r\n# Here are variables related to the Tomcat installa-
  tion\r\n\r\nhttp_port: 8080\r\nhttps_port: 8443\r\n\r\n# This will configure a de-
  fault manager-gui user:\r\n\r\nadmin_username: admin\r\nadmin_password: admin-
  \r\n\r\ntomcat_downloadURL: http://mirror.bit.edu.cn/apache", "credential_name":
  "root", "name": "tomcat", "diff_mode": 0, "force_handlers": 0,
  "start_at_task": "", "tags": "", "skip_tags": "", "jobtype_name": "Run", "ver-
  bosity_name": "Normal", "cuser": 48, "bind_templates": [], "is_bind_templates":
  ""
}
```

•

1 API

GET POST DELETE

/api/project/credential/empowered/teams/

Content-Type

Content-Type Content-Type :

application/x-www-form-urlencoded --
application/json -- json

offset	int		
limit	int		
name	string		
search	string		team

team	int		
permission	string		
permission_name	string		()

id	int		credential_team_permissions id
team	int		
data	int		inventory id
permission	string		
permission_name	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id ordering=id id ordering=id id

GET

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
      "team": 2,
      "data": 2,
      "permission": "read",
      "permission_name": " ",
      "data_name": " ",
      "team_name": " "
    }
  ]
}
```

```
{
  "id": 1,
  "team": 2,
  "data": 2,
  "permission": "read",
  "permission_name": " ",
  "data_name": "   ",
  "team_name": "   "
}
```

2 API

GET PUT PATCH DELETE

/api/project/credential/empowered/teams/1/

1	id
---	----

/ 1

```
{
  "id": 1,
  "team": 2,
  "data": 2,
  "permission": "read",
  "permission_name": " ",
  "data_name": "   ",
  "team_name": "   "
}
```

•

1 API

GET POST DELETE

/api/template/template/permission/users/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
name	string		
search	string		username

username	string		
last_name	string		()
permission	string		
permission_name	string		()

id	int		template_user_permissions id
username	string		
last_name	string		()
data	int		inventory id
permission	string		
permission_name	string		()

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 28,
  "next": "http://43.24.9.245/api/template/template/permission/users/?limit=20&offset=20",
  "previous": null,
  "results": [
```

()

()

```

{
  "id": 49,
  "username": 18,
  "data": 32,
  "permission": "admin",
  "permission_name": " ",
  "last_name": "fly yao",
  "data_name": "  "
},
{
  "id": 48,
  "username": 48,
  "data": 31,
  "permission": "admin",
  "permission_name": " ",
  "last_name": "Alex",
  "data_name": "tomcat "
},
]
}

```

```

{
  "id": 49,
  "username": 18,
  "data": 32,
  "permission": "admin",
  "permission_name": " ",
  "last_name": "fly yao",
  "data_name": "  "
}

```

2 API

GET PUT PATCH DELETE

/api/template/template/permission/users/49/

49	id
----	----

/ 1

```

{
  "id": 49,
  "username": 18,
  "data": 32,
  "permission": "admin",
  "permission_name": " ",
  "last_name": "fly yao",

```

()

()

```
    "data_name": "  "
  }
```

•

1 API

GET POST DELETE
/api/template/workflow/node/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json --      json
```

offset	int		
limit	int		
name	string		
search	string		name description

name	string		
template	int		id
template_name	string		id
top	int		
left	int		
type	string		
is_start_node	int		
bind_template	int		id
bind_template_name	string		id
forks	string		
limit	string		limit
tags	string		tags
skip_tags	string		skip_tags
verbosity	int		Debug
variables	string		
become_enabled	int		
diff_mode	int		diff
force_handlers	int		handlers
start_at_task	string		

id	int		workflow id
name	string		
template	int		id
template_name	string		id
top	int		
left	int		
type	string		
is_start_node	int		
bind_template	int		id
bind_template_name	string		id
forks	string		
limit	string		limit
tags	string		tags
skip_tags	string		skip_tags
verbosity	int		Debug
variables	string		
become_enabled	int		
diff_mode	int		diff
force_handlers	int		handlers
start_at_task	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 3,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 21,
      "name": " ",
      "template": 26,
      "template_name": "workflow",
      "left": 678,
      "top": 458,
      "type": "",
      "is_start_node": 0,
      "bind_template": null,
      "bind_template_name": null,
      "use_node_params": 0,
      "forks": 0,
      "limit": "",
      "tags": "",
      "skip_tags": "",
      "verbosity": 0,
      "become_enabled": 0,
      "diff_mode": 0,
      "force_handlers": 0,
      "start_at_task": "",
      "variables": ""
    },
    {
      "id": 20,
      "name": " ",
      "template": 26,
      "template_name": "workflow",
      "left": 651,
      "top": 122,
      "type": "job",
      "is_start_node": 0,
      "bind_template": 23,
      "bind_template_name": " SVN",
      "use_node_params": 1,
    }
  ]
}
```

()

```
        "forks": 0,
        "limit": "",
        "tags": "text",
        "skip_tags": "text",
        "verbosity": 0,
        "become_enabled": 0,
        "diff_mode": 0,
        "force_handlers": 0,
        "start_at_task": "",
        "variables": ""
    }
}
```

```
{
  "id": 21,
  "name": " ",
  "template": 26,
  "template_name": "workflow",
  "left": 678,
  "top": 458,
  "type": "",
  "is_start_node": 0,
  "bind_template": null,
  "bind_template_name": null,
  "use_node_params": 0,
  "forks": 0,
  "limit": "",
  "tags": "",
  "skip_tags": "",
  "verbosity": 0,
  "become_enabled": 0,
  "diff_mode": 0,
  "force_handlers": 0,
  "start_at_task": "",
  "variables": ""
}
```

2 API

GET PUT PATCH DELETE
/api/template/workflow/node/1/

1	id
---	----

/ 1


```
{
  "id": 1,
  "name": " ",
  "template": 2,
  "template_name": "  ",
  "left": 234,
  "top": 264,
  "type": "",
  "is_start_node": 1,
  "bind_template": null,
  "bind_template_name": null,
  "use_node_params": 0,
  "forks": 0,
  "limit": "",
  "tags": "",
  "skip_tags": "",
  "verbosity": 0,
  "become_enabled": 0,
  "diff_mode": 0,
  "force_handlers": 0,
  "start_at_task": "",
  "variables": ""
}
```

•

1 API

GET POST DELETE
/api/template/workflow/line/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
name	string		

node_id	int		id
next_node	int		id
source_anchor	string		
target_anchor	string		
result	string		
result_name	string		

id	int		id
node_id	int		id
next_node	int		id
source_anchor	string		
target_anchor	string		
result	string		
result_name	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 10,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 20,
      "node": 20,
      "next_node": 21,
      "source_anchor": "BottomCenter",
      "target_anchor": "TopCenter",
      "result": "failed",
      "result_name": " "
```

()

()

```

    },
    {
      "id": 19,
      "node": 19,
      "next_node": 20,
      "source_anchor": "RightMiddle",
      "target_anchor": "LeftMiddle",
      "result": "successful",
      "result_name": " "
    }
  ]
}

```

```

{
  "id": 20,
  "node": 20,
  "next_node": 21,
  "source_anchor": "BottomCenter",
  "target_anchor": "TopCenter",
  "result": "failed",
  "result_name": " "
}

```

2 API

GET PUT PATCH DELETE

/api/template/workflow/line/1/

1	id
---	----

/ 1

```

{
  "id": 1,
  "node": 1,
  "next_node": 2,
  "source_anchor": "RightMiddle",
  "target_anchor": "LeftMiddle",
  "result": "any",
  "result_name": " "
}

```

4.2.4

.

1 API

GET POST DELETE

/api/notification/dingtalk/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
name	string		

agent_id	string		AgentId
corpid	string		CorpId
corpsecret	string		CorpSecret

id	int		id
agent_id	string		AgentId
corpid	string		CorpId
corpsecret	string		CorpSecret

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 2,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 4,
      "agent_id": "189191807",
      "corpid": "dingaenuaiz5naursp3h",
      "corpsecret": "Ys3yX5TkOFUgveiVYAMDYi33G5RbJmcGuh17HJ1RuaPuivYlEScXB-m3aoNru7",
      "name": "Alex "
    },
    {
      "id": 1,
      "agent_id": "123456",
      "corpid": "123",
      "corpsecret": "123456",
      "name": "test dingtalk"
    }
  ]
}
```

```
{
  "id": 1,
  "agent_id": "123456",
  "corpid": "123",
  "corpsecret": "123456",
  "name": "test dingtalk"
}
```

2 API

GET PUT PATCH DELETE
/api/notification/dingtalk/1/

1 id

/ 1

```
{
  "id": 1,
  "agent_id": "123456",
  "corpid": "123",
  "corpsecret": "123456",
  "name": "test dingtalk"
}
```

Email

-

1 email email email API

GET POST DELETE
/api/notification/email/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

offset	int		
limit	int		
name	string		email

email_host	string		
email_port	string		
email_user	string		
email_password	string		
email_tls	int		tls
email_ssl	int		ssl

id	int		email id
email_host	string		
email_port	string		
email_user	string		
email_password	string		
email_tls	int		tls
email_ssl	int		ssl

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 3,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 3,
      "email_host": "test@shfanxi.com",
      "email_port": 465,
      "email_user": " ",
      "email_password": "123456",
      "email_tls": 1,
      "email_ssl": 1,
      "name": " "
    },
    {
      "id": 2,
      "email_host": "test@shfanxi.com",
      "email_port": 465,
      "email_user": " ",
      "email_password": "123456",
      "email_tls": 1,
      "email_ssl": 0,
```

()

()

```

        "name": "  2"
      },
      {
        "id": 1,
        "email_host": "smtp.exmail.qq.com",
        "email_port": 465,
        "email_user": "jer@shfanxi.com",
        "email_password": "Chinastock@123",
        "email_tls": 1,
        "email_ssl": 0,
        "name": "  "
      }
    ]
  }
}

```

email

```

{
  "id": 1,
  "email_host": "smtp.exmail.qq.com",
  "email_port": 465,
  "email_user": "jer@shfanxi.com",
  "email_password": "Chinastock@123",
  "email_tls": 1,
  "email_ssl": 0,
  "name": "  "
}

```

2 email email email API

GET PUT PATCH DELETE

/api/notification/email/1/

1 email id

/ 1

```

{
  "id": 1,
  "email_host": "smtp.exmail.qq.com",
  "email_port": 465,
  "email_user": "jer@shfanxi.com",
  "email_password": "Chinastock@123",
  "email_tls": 1,
  "email_ssl": 0,
  "name": "  "
}

```


-

1 API

GET POST DELETE

/api/notification/qiye/weixin/settings/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
name	string		

name	string		
agent_id	string		AgentId
corpid	string		CorpId
corpsecret	string		CorpSecret

id	int		id
name	string		
agent_id	string		AgentId
corpid	string		CorpId
corpsecret	string		CorpSecret

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 3,
      "agent_id": "1000002",
      "corpid": "ww933a1369a610e7",
      "corpsecret": "aKuh1XG7zpzaggj22XJvyfKK7Grc3YzYUZ1bgE",
      "name": " "
    }
  ]
}
```

```
{
  "id": 3,
  "agent_id": "1000002",
  "corpid": "ww933a1369a610e7",
  "corpsecret": "aKuh1XG7zpzaggj22XJvyfKK7Grc3YzYUZ1bgE",
  "name": " "
}
```

2 API

GET PUT PATCH DELETE
/api/notification/qiye/weixin/settings/3/

3	id
---	----

/ 1

```
{
  "id": 3,
  "agent_id": "1000002",
  "corpid": "ww933a1369a610e7",
  "corpsecret": "aKuh1XG7zpzaggj22XJvyfKK7Grc3YzYUZ1bgE",
}
```

()

()

```
    "name": "  "
  }
```

•

1 API

GET POST DELETE
/api/notification/notification/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json --      json
```

offset	int		
limit	int		
name	string		
search	string		name

name	string		
channel	string		
channel_name	string		
description	string		
channel_id	int		
channel_type_name	string		
target_list	string		

id	int		id
name	string		
channel	string		
channel_name	string		
description	string		
channel_id	int		
channel_type_name	string		
target_list	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 9,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 12,
      "name": "notification weixin",
      "channel": "QiYeWeiXin",
      "description": "",
      "target_list": "admin@shfanxi.com",
      "channel_name": " ",
      "channel_id": 2,
      "channel_type_name": "Alex  "
    },
    {
      "id": 11,
      "name": "notification dingtalk",
      "channel": "DingTalk",
      "description": "",
      "target_list": "admin@shfanxi.com",
      "channel_name": " ",
    }
  ]
}
```

()

```

        "channel_id": 4,
        "channel_type_name": "Alex  "
    },
    {
        "id": 10,
        "name": "notification",
        "channel": "Email",
        "description": "",
        "target_list": "admin@shfanxi.com",
        "channel_name": " ",
        "channel_id": 3,
        "channel_type_name": " "
    },
    {
        "id": 8,
        "name": " ",
        "channel": "QiYeWeiXin",
        "description": "",
        "target_list": "ChenShaong\r\nCenCeng",
        "channel_name": " ",
        "channel_id": 2,
        "channel_type_name": "Alex  "
    },
    {
        "id": 7,
        "name": " ",
        "channel": "DingTalk",
        "description": "",
        "target_list": "0217301181107\r\n06401815301228434",
        "channel_name": " ",
        "channel_id": 4,
        "channel_type_name": "Alex  "
    },
    {
        "id": 1,
        "name": " ",
        "channel": "Email",
        "description": "",
        "target_list": "31915580@qq.com\r\nalex@shfanxi.com",
        "channel_name": " ",
        "channel_id": 1,
        "channel_type_name": " "
    }
]
}

```

```

{
    "id": 1,
    "name": " ",
    "channel": "Email",

```

()

()

```
"description": "",
"target_list": "31915580@qq.com\r\nalex@shfanxi.com",
"channel_name": " ",
"channel_id": 1,
"channel_type_name": " "
}
```

2 API

GET PUT PATCH DELETE
/api/notification/notification/1/

```
1 id
```

/ 1

```
{
  "id": 1,
  "name": " ",
  "channel": "Email",
  "description": "",
  "target_list": "31915580@qq.com\r\nalex@shfanxi.com",
  "channel_name": " ",
  "channel_id": 1,
  "channel_type_name": " "
}
```

4.2.5

•

1 API

GET POST DELETE
/api/system/system/jobsettings/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json -- json
```

workspace	string		
job_timeout	int		() 0
idle_timeout	int		() 0
keep_days	int		(0)

id	int		id
workspace	string		
job_timeout	int		() 0
idle_timeout	int		() 0
keep_days	int		(0)

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 4,
      "workspace": "/tmp",
      "job_timeout": 0,
      "idle_timeout": 30,
      "keep_days": 1
    }
  ]
}
```

```
{
  "id": 4,
  "workspace": "/tmp",
  "job_timeout": 0,
  "idle_timeout": 30,
  "keep_days": 1
}
```

2 **API**

GET PUT PATCH DELETE
/api/system/system/jobsettings/4/

4	id
---	----

/ 1

```
{
  "id": 4,
  "workspace": "/tmp",
  "job_timeout": 0,
  "idle_timeout": 30,
  "keep_days": 1
}
```

•

1 **API**

GET POST DELETE
/api/system/system/environment/variable/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
name	string		
search	string		name

name	string		
value	string		
remark	string		

id	int		id
name	string		
value	string		
remark	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 5,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 5,
      "name": "22",
      "value": "",
      "remark": ""
    }
  ]
}
```

()

()

```

    },
    {
      "id": 1,
      "name": " 1",
      "value": "3",
      "remark": "a"
    }
  ]
}

```

```

{
  "id": 1,
  "name": " 1",
  "value": "3",
  "remark": "a"
}

```

2 API

GET PUT PATCH DELETE

/api/system/system/environment/variable/1/

1	id
---	----

/ 1

```

{
  "id": 1,
  "name": " 1",
  "value": "3",
  "remark": "a"
}

```

•

1 API

GET POST DELETE

/api/system/team/

Content-Type

```
Content-Type Content-Type :
application/x-www-form-urlencoded --
application/json --      json
```

offset	int		
limit	int		
name	string		
search	string		name description

name	string		
description	string		
username	string		
last_name	string		

id	int		id
name	string		
description	string		
username	string		
last_name	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id - ordering=id id ordering=-id id -

GET

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
```

()

```
    "name": " ",
    "description": " ",
    "users": [
      {
        "username": 1,
        "last_name": "David"
      },
      {
        "username": 5,
        "last_name": "Mary"
      }
    ]
  }
}
```

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
      "name": " ",
      "description": " ",
      "users": [
        {
          "username": 1,
          "last_name": "David"
        },
        {
          "username": 5,
          "last_name": "Mary"
        }
      ]
    }
  ]
}
```

2 API

GET PUT PATCH DELETE
/api/system/team/1/

1	id
---	----

/ 1

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
      "name": " ",
      "description": " ",
      "users": [
        {
          "username": 1,
          "last_name": "David"
        },
        {
          "username": 5,
          "last_name": "Mary"
        }
      ]
    }
  ]
}
```

•

1 API

GET POST DELETE
/api/system/team/users/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
username	string		
search	string		team username

username	string		
last_name	string		
team	int		
team_name	string		

id	int		id
username	string		
last_name	string		
team	int		
team_name	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 4,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 12,
      "username": 8,
      "team": 1,
      "last_name": "James",
      "team_name": " "
    },
    {
      "id": 11,
      "username": 6,
      "team": 1,
      "last_name": "Kelly",

```

()

()

```
        "team_name": " "
      },
      {
        "id": 10,
        "username": 5,
        "team": 1,
        "last_name": "Mary",
        "team_name": " "
      },
      {
        "id": 9,
        "username": 1,
        "team": 1,
        "last_name": "David",
        "team_name": " "
      }
    ]
  }
}
```

```
{
  "id": 9,
  "username": 1,
  "team": 1,
  "last_name": "David",
  "team_name": " "
}
```

2 API

GET PUT PATCH DELETE

/api/system/team/users/9/

9	id
---	----

/ 1

```
{
  "id": 9,
  "username": 1,
  "team": 1,
  "last_name": "David",
  "team_name": " "
}
```

.

1 API

GET POST DELETE
/api/system/system/module/

Content-Type

```
Content-Type Content-Type :  
  
application/x-www-form-urlencoded --  
application/json -- json
```

offset	int		
limit	int		
name	string		
search	string		name comment

name	string		
weight	int		
comment	string		

id	int		id
name	string		
weight	int		
comment	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 13,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
      "name": "command",
      "weight": 0,
      "comment": " "
    },
    {
      "id": 2,
      "name": "yum",
      "weight": 0,
      "comment": " yum Rad Hat "
    },
    {
      "id": 3,
      "name": "pip",
      "weight": 0,
      "comment": " pip python "
    },
    {
      "id": 4,
      "name": "service",
      "weight": 0,
      "comment": " "
    },
    {
      "id": 5,
      "name": "copy",
      "weight": 0,
      "comment": " "
    },
    {
      "id": 6,
      "name": "file",
      "weight": 0,
      "comment": " "
    },
    {

```

()

()

```

        "id": 7,
        "name": "script",
        "weight": 0,
        "comment": "      "
    },
    {
        "id": 8,
        "name": "user",
        "weight": 0,
        "comment": "      "
    },
    {
        "id": 9,
        "name": "group",
        "weight": 0,
        "comment": "  GROUP"
    },
    {
        "id": 10,
        "name": "template",
        "weight": 0,
        "comment": "      "
    },
    {
        "id": 11,
        "name": "unarchive",
        "weight": 0,
        "comment": "      "
    },
    {
        "id": 12,
        "name": "mysql_db",
        "weight": 0,
        "comment": " MySQL      "
    },
    {
        "id": 14,
        "name": "shell",
        "weight": 0,
        "comment": "  "
    }
  ]
}

```

```

{
  "id": 1,
  "name": "command",
  "weight": 0,
  "comment": "  "
}

```

2 API

GET PUT PATCH DELETE
/api/system/system/module/1/

1	id
---	----

/ 1

{ "id": 1, "name": "command", "weight": 0, "comment": " " }
--

Tag

- playbook tag tags skip_tags

1 tag tag tag API

GET POST DELETE
/api/system/tag/

Content-Type

Content-Type	Content-Type	:
application/x-www-form-urlencoded	--	
application/json	--	json

offset	int		
limit	int		
tag	string		tag
search	string		tag comment

tag	string		tag
weight	int		0
comment	string		

id	int		tag id
tag	string		tag
weight	int		0
comment	string		

pk	string	pk[]	http body
pk[]	array	pk	http body

ordering	string		id • ordering=id id ordering=-id id •

GET

```
{
  "count": 6,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 2,
      "tag": "tomcat",
      "weight": 1,
      "comment": "tomcat"
    },
    {
      "id": 3,
      "tag": "git",
      "weight": 0,
      "comment": ""
    },
    {
      "id": 4,
      "tag": "nginx",
      "weight": 0,
      "comment": ""
    },
    {
      "id": 5,
```

()

()

```
    "tag": "dubbo",
    "weight": 0,
    "comment": ""
  },
  {
    "id": 6,
    "tag": "spark",
    "weight": 0,
    "comment": ""
  },
  {
    "id": 7,
    "tag": "zookeeper",
    "weight": 0,
    "comment": ""
  }
]
```

Tag

```
{
  "id": 2,
  "tag": "tomcat",
  "weight": 1,
  "comment": "tomcat"
}
```

2 tag tag tag API

GET PUT PATCH DELETE

/api/system/tag/2/

2 tag id

/ 1

```
{
  "id": 2,
  "tag": "tomcat",
  "weight": 1,
  "comment": "tomcat"
}
```

CHAPTER 5

5.1

5.2

5.3

6.1 2.3.4

2019 11 25

Bug

-
-
- yaml

6.2 2.3.3

2019 11 12

- icon

6.3 2.3.2

2019 11 12

Bug

- License

- Windows AD settings.py sso api ldap

6.4 2.3.1

2019 11 6

Bug

-
-
-

6.5 2.3

2019 11 1

-
-
-
-
-
-

- 1 “ ”
-
- “ ” “ ”
- 100%
-
-
-
-
-
-

Bug

-
- / Playbook bug
-

-

6.6 2.2.1

2019 9 21

Bug

- bug
- bug
-
-
- bug
- bug
- bug
- bug
-
- “ ”
-

6.7 2.2

2019 9 23

-
-
-
-
-
- UI
-
-
-
-
-
-

- 2.1 2.2 opsgnat docs/version2.2.sql

6.8 2.1

2019 8 23

- jinja2
- GitLab SVN Playbook
-
- 2.0 2.1 opsgnat docs/version2.1.sql