
docker Documentation

6.1.0.dev0

The sean developers

11 17, 2017

Contents

1	Chapter 0: About	3
1.1	Thanks to	3
1.2	SEAN's Paradise	3
2	chapter 1 :	5
2.1	1.1 CentOS	5
2.1.1	1.1.1	5
2.1.2	1.1.2	5
2.1.3	1.1.3	6
2.1.4	1.1.4 MariaDB (tar.gz)	8
2.1.5	1.1.5 MairaDB (rpm)	10
2.1.6	1.1.6	10
2.1.7	1.1.7 mod_JK	11
3	chapter 2 :	13
3.1	2.1 CentOS	13
3.1.1	2.1.1 IP	13
3.1.2	2.1.2 & ()	14
3.1.3	2.1.3 & (ntp)	14
3.1.4	2.1.3	15
3.1.5	2.1.4 SCP	15
3.1.6	2.1.5	15
3.1.7	2.1.6 (ntp)	16
3.1.8	2.1.7	16
3.2	2.2 MariaDB	17
3.2.1	2.2.1 MariaDB	17
4	chapter 3 : MariaDB	19
4.1	3.1	19
4.1.1	3.1.1 UTF8	19
4.1.2	3.1.2	19
4.2	3.2 / &	20
4.2.1	3.2.1	20
4.2.2	3.2.2 mysql	20
4.3	3.3 / &	20
4.3.1	3.3.1 /	20
4.3.2	3.3.2	21

4.4	3.4 MySQL/MariaDB &	21
4.4.1	3.4.1 Windows	21
4.4.2	3.4.2 Linux	21
4.4.3	3.4.3	22
4.5	3.5 HeidiSQL	23
4.5.1	3.5.1	23
4.5.2	3.5.2	23
5	chapter 4 :	25
5.1	4.1	25
5.1.1	4.1.1	25
5.1.2	4.1.2 dev	25
6	chapter 5 : Scouter	27
6.1	5.1 Scouter	27
6.2	5.2 Scouter	27
6.2.1	5.2.1 Windows	27
6.2.2	5.2.2 Linux	28
7	chapter 6 :	31
7.1	6.1	31
7.1.1	6.1.1	31
7.1.2	6.1.2 HTTPS	32
7.1.3	6.1.3 SSL ()	32
7.2	6.2 gitlab	33
7.2.1	6.2.1	33
7.3	6.3 Jenkins	33
7.3.1	6.3.1	33
7.3.2	6.3.2 SSH	33
7.3.3	6.3.3	34
8	chapter 7 :	35
8.1	7.1 tomcat	35
8.2	7.2 HTTPS()	36
8.2.1	7.2.1	36
8.2.2	7.2.2	37
8.2.3	7.2.3	37
8.3	7.3 vboxvmservice(VirtualBox)	37
8.3.1	7.3.1	37
9	chapter 8 :	39
9.1	8.1	39

Docker Basic

written by sean

[Github](#) |

CHAPTER 1

Chapter 0: About

Linux is the best software for software paradise

1.1 Thanks to

- sean
- Mr Ju SS
- OSS Members
-

1.2 SEAN's Paradise

I think that My Life as Software Engineer was terrible , but it's role for social is important so, I keep going for better life & software development

CHAPTER 2

chapter 1 :

2.1 1.1 CentOS

2.1.1 1.1.1

CentOS

```
cat /etc/centos-release
```

```
uname -r
```

2.1.2 1.1.2

```
rpm -qa | grep java
```

```
yum remove openjdk
```

.tar.gz (/usr/local)

```
tar -zxvf .tar.gz  
ln -s
```

```
vim /etc/profile
```

```
export JAVA_HOME=/usr/local/java  
export CLASSPATH=.:$JAVA_HOME/lib/tools.jar  
export PATH=$PATH:$JAVA_HOME/bin  
  
source /etc/profile
```

```
java -version
javac -version
```

2.1.3 1.1.3

.tar.gz (/usr/local)

```
tar -zxvf .tar.gz
ln -s
```

```
vim /etc/profile

export CATALINA_HOME=/usr/local/tomcat
export CLASSPATH=$CATALINA_HOME/lib-jsp-api.jar:$CATALINA_HOME/lib/servlet-api.jar
export PATH=$CATALINA_HOME/bin

source /etc/profile
```

8080

```
vim /etc/sysconfig/iptables

iptables -A INPUT -m state --state NEW -p tcp --dport 8080 -j ACCEPT

service iptables save
service iptables restart
```

```
/usr/local/tomcat/bin/startup.sh
/usr/local/tomcat/bin/shutdown.sh
```

```
vim /etc/rc.d/init.d/tomcat

#!/bin/sh
# chkconfig: 345 90 90
# description: init file for tomcat
# processname: tomcat

export JAVA_HOME=/usr/local/java
export CATALINA_HOME=/usr/local/tomcat
export CLASSPATH=.:$JAVA_HOME/lib/tools.jar:$CATALINA_HOME/lib-jsp-api.jar:$CATALINA_
↪HOME/lib/servlet-api.jar
export PATH=$PATH:$JAVA_HOME/bin:$CATALINA_HOME/bin

export JAVA_OPTS="-Djava.awt.headless=true -server -Xms2048m -Xmx4096m -
↪XX:NewSize=512m -XX:MaxNewSize=1024m -XX:PermSize=512m -XX:MaxPermSize=1024m -
↪XX:+DisableExplicitGC"
#export JAVA_OPTS="-Djava.awt.headless=true -server -Xms2048m -Xmx4096m -
↪XX:NewSize=512m -XX:MaxNewSize=1024m -XX:PermSize=512m -XX:MaxPermSize=1024m -
↪XX:+DisableExplicitGC -Dscouter.config=/usr/local/apache-tomcat-7.0.78/scouter/
↪scouter.conf"

export CATALINA_OPTS="-Denv=product -Denv.servername=projectTomcat"
#export CATALINA_OPTS="-Denv=product -Denv.servername=projectTomcat -javaagent:/usr/
↪local/apache-tomcat-7.0.78/lib/scouter.agent.jar "
```

```

# Get Config
[ -f /usr/local/tomcat/conf/server.xml ] && [ -f /usr/local/tomcat/conf/web.xml ] ||
↪exit 0

source /etc/profile

# Source function library
. /etc/rc.d/init.d/functions

# caution :
#           variable=<value> space between variable and value is not allowed
RETVAL=0
prog=tomcatd

# Start function
start()
{
    echo -n "Starting $prog : "
    daemon $CATALINA_HOME/bin/startup.sh
    RETVAL=$?
    echo
    touch /var/lock/subsys/tomcat
    return $RETVAL
}

# Stop fuction
stop()
{
    echo -n "Stopping $prog : "
    daemon $CATALINA_HOME/bin/shutdown.sh
    RETVAL=$?
    echo
    rm -f /var/lock/subsys/tomcat
    return $RETVAL
}

# Restart function
restart()
{
    stop
    start
}

# See how we were called
case "$1" in
    start)
        start
        ;;
    stop)
        stop
        ;;
    restart)
        restart
        ;;
    *)
        echo $"Usage : $0 {start|stop|restart}"
esac

```

```
exit $RETVAL
```

```
chmod u+x /etc/rc.d/init.d/tomcat
chmod 755 /etc/rc.d/init.d/tomcat
```

```
/etc/rc.d/init.d/tomcat start
/etc/rc.d/init.d/tomcat restart
/etc/rc.d/init.d/tomcat stop
```

chkconfig

```
chkconfig --add tomcat
chkconfig --list tomcat
tomcat 0: 1: 2: 3: 4: 5: 6:
reboot
* 3~5 , chkconfig --level 345 tomcat on
```

8080

```
netstat -ntl
ps -ef | grep tomcat
```

2.1.4 1.1.4 MariaDB (tar.gz)

MariaDB

```
rpm -qa | grep MariaDB
```

MariaDB

```
tar -zxvf .tar.gz
rm -rf .tar.gz
mv /usr/local
```

MariaDB

```
ln -s mariadb
```

MariaDB ()

```
useradd -M mariadb
usermod -d mariadb
grep mariadb /etc/passwd

groupadd mariadb
useradd -g mariadb mariadb
```

MariaDB ()

```
chown mariadb:mariadb -R
chmod 755 -R
```

my.cnf

```
cp /support-files/ /etc/my.cnf
4G : my-innodb-heavy-4G.cnf
1G~2G : my-huge.cnf
512MB : my-large.cnf
32MB~64MB : my-medium.cnf
64MB : my-small.cnf
```

(my.cnf)

```
character-set-server=utf8
collation-server=utf8_general_ci
```

```
cp /support-files/mysql.server /etc/init.d/mysqld
```

()

```
chown mariadb:mariadb /etc/init.d/mysqld
chmod 750 /etc/init.d/mysqld
```

```
vim /etc/init.d/mysqld
```

```
basedir=
datadir=/data
```

PATH

```
vim /etc/profile

PATH=$PATH:/bin

source /etc/profile
```

MariaDB

```
service mysqld start
```

```
chkconfig mysql on
chkconfig --list mysql

2~5:on
```

```
./bin/mysql_secure_installation -basedir=

Set root password? [Y/n] y
Remove anonymous users? [Y/n] y
Disallow root login remotely? [Y/n] y
Remove test database and access to it? [Y/n] y
Reload privilege tables now? [Y/n] y
```

```
mysql -uroot -p
```

```
# DB (mariadb ) /usr/local/mariadb/scripts/mysql_install_db --user=mariadb --basedir=/usr/local/mariadb
--datadir=/usr/local/mariadb/data rpm
```

```
rpm -qa 'mysql*'
rpm -ivh MariaDB-*
```

2.1.5 1.1.5 MairaDB (rpm)

```
rpm -qa | grep mysql
```

```
rpm -e --nodeps mysql-libs-5.1.73-8.el6_8.x86_64
```

MariaDB.rpm ()

```
rpm --checksig $(find . -name '*.rpm')
```

MariaDB.rpm ()

```
gpg --keyserver hkp://pgp.mit.edu --recv-keys 1BB943DB
gpg --export --armour 1BB943DB > mariadb-signing-key.asc
rpm --import mariadb-signing-key.asc
rpm -qa gpg-pubkey*

rpm --checksig $(find . -name '*.rpm')
```

perl-DBI MariaDB

```
rpm -Uvh perl-DBI-*
rpm -Uvh MariaDB-*
```

```
rpm -qa | grep MariaDB

/etc/init.d/mysql start
```

```
/usr/bin/mysqladmin -u root password ''
```

2.1.6 1.1.6

```
rpm -qa | grep httpd
```

httpd

```
rpm -e --nodeps httpd
```

httpd

```
rpm -ivh httpd-*
```

```
vim /etc/httpd/conf/httpd.conf
```

.php

```
AddType application/x-httpd-php .php .ph .phtml .php3 .php4 .sql .inc .html .htm
AddType application/x-httpd-php-source .phps
```

ServerName

```
ServerName 127.0.0.1:80
```

```
vim /etc/sysconfig/iptables
```

```
-A INPUT -m state --state NEW -m tcp -p tcp --dport 80 -j ACCEPT
```

```
/etc/init.d/iptables restart
```

```
chkconfig httpd on
```

```
chkconfig --list httpd
```

```
httpd    0:off 1:off  2:on   3:on   4:on   5:on   6:off
```

```
ps -ef | grep httpd
```

2.1.7 1.1.7 mod_JK

```
/etc/httpd/modules/mod_jk.so
```

```
SELinux  mod_jk.so httpd_modules_t Context  apache httpd . .
chcon -u system_u -r object_r -t httpd_modules_t /etc/httpd/modules/mod_jk.so
```

Apache mod_jk

```
vim /etc/httpd/conf/httpd.conf
```

```
LoadModule jk_module modules/mod_jk.so
```

```
ServerName localhost
```

```
include /etc/httpd/conf.d/mod_jk.conf
```

```
vim /etc/httpd/conf.d/mod_jk.conf
```

```
<IfModule mod_jk.c>
```

```
  # Where to find workers.properties
```

```
  # JkWorkersFile /etc/httpd/conf/workers_jk.properties
```

```
  # Where to put jk shared memory
```

```
JkShmFile run/mod_jk.shm
```

```
  # Where to put jk logs
```

```
JkLogFile logs/mod_jk.log
```

```
  # Set the jk log level [debug/error/info]
```

```
JkLogLevel info
```

```
  # Select the timestamp log format
```

```
JkLogStampFormat "[%a %b %d %H:%M:%S %Y] "
```

```
  # If you want to put all mounts into an external file
```

```
  # that gets reloaded automatically after changes
```

```
  # (with a default latency of 1 minute),
```

```
  # you can define the name of the file here.
```

```
JkMountFile /etc/httpd/conf/uriworkermap.properties
</IfModule>
```

mod_jk worker

```
vim /etc/httpd/conf/workers_jk.properties

worker.list=worker1, worker2

worker.worker1.port=8009
worker.worker1.host=server1
worker.worker1.type=ajp13
worker.worker1.lbfactor=1

## server 2
worker.worker2.port=8009
worker.worker2.host=server2
worker.worker2.type=ajp13
worker.worker2.lbfactor=1
```

```
vim /usr/local/tomcat/conf/server.xml
tomcat URIEncoding ISO-8859-1 URIEncoding="UTF-8" .
<Connector port="8009" protocol="AJP/1.3" redirectPort="8443" URIEncoding="UTF-8"/>
```

url tomcat .

```
vim /etc/httpd/conf/uriworkermap.properties
## Mapping the URI /service1 under worker1
/service1/*.do=worker1
/service1/*.jsp=worker1

# /service2 worker2 mount
/service2/*=worker2

# png jpg apache
!/service2/*.png=worker2
!/service2/*.jpg=worker2

## (jsp, do, image, js) tomcat .
# /*=worker1
```

```
apachectl start
catalina.sh start

http:///index.jsp
```

3.1 2.1 CentOS

3.1.1 2.1.1 IP

IP

```
vim /etc/sysconfig/network-scripts/ifcfg-eth0

# ,
DEVICE=eth0

# IP , static IP
BOOTPROTO=static

# MAC
HWADDR=XX:XX:XX:XX:XX:X

# GUI , TUI
NM_CONTROLLED=no

#
ONBOOT=yes

# Ethernet
TYPE=Ethernet

# ID
UUID=XXXXXXXX-XXX-XXX-XXX-XXXXXXXX

#
BROADCAST=192.168.0.255

# IP
```

```
IPADDR=192.168.0.5

#
NETMASK=255.255.255.0

#
NETWORK=192.168.0.0

# Wake On Lan , Ehttool CentOS
ETHTOOL_OPTS=wol g

# eth0
USERCTL=no

# IPV6
IPV6INIT=no
```

SSH IP

```
vim /etc/sysconfig/network-scripts/ifcfg-eth1
BOOTPROTO=static
IPADDR=192.168.56.102
NETMASK=255.255.255.0
GATEWAY=192.168.56.1

/etc/rc.d/init.d/network restart
```

3.1.2 2.1.2 & ()

&

```
date
```

```
date -s ::
```

```
date -s '-- ::'
```

```
date -s --
00:00:00
```

3.1.3 2.1.3 & (ntp)

ntp

```
vim /etc/ntp.conf

server kr.pool.ntp.org
server time.bora.net
server time.kornet.net
server 10.0.4.23 local
```

```
chkconfig ntpd on
```

```
chkconfig --list | grep ntpd
ntpd    0: 1: 2: 3: 4: 5: 6:
```

```
service ntpd start
```

```
ntpq -p
```

```
* : sync
+ : ntp      sync
- : ntp      sync
blank :
```

3.1.4 2.1.3

```
env
```

```
unset JAVA_HOME
```

3.1.5 2.1.4 SCP

scp

```
scp - [] [[:/]]
-r :
-v :
-P :
```

```
scp - [[:/]] []
```

```
scp -P 25109 root@180.182.63.23:/home/mysql/ ./
scp nbsf2_20170524 -P 10420 root@110.93.129.14:/home/mysql/
scp root@10.10.131.138:/drives/e/nbsf2_20170524 /root/mariadb_backup
```

3.1.6 2.1.5

```
dmidecode |more
```

```
uname -a
```

OS

```
cat /etc/issue.net
```

CPU

```
cat /proc/cpuinfo |grep model
```

```
cat /proc/meminfo
```

```
free -m
```

```
cat /proc/sys/kernel/osrelease
```

```
::
```

```
cat /proc/diskstats
```

```
cat /proc/partitions
```

```
lsmod
```

```
dmesg
```

```
cat /etc/passwd
```

```
ulimit -Ha
```

```
ulimit -Sa
```

```
=> , .
```

3.1.7 2.1.6 (ntp)

3.1.8 2.1.7

UTF8

```
locale
```

```
tail -f catalina.out
```

SELinux

```
vi /etc/selinux/config
```

```
SELINUX=disabled
```

```
()
```

```
service iptables status
```

```
/etc/rc.d/init.d/iptables stop  
/etc/rc.d/init.d/ip6tables stop
```

```
netstat -an |grep 8080
```

```
ps -ef |grep java
```

```
find -  
-name  
-user  
-type  
    d : directory  
    f : regular file  
    b: block device file  
    c : character device file,  
    n: network sepecial file  
    p: named pipe  
    s: socket  
-size  (100c, c Byte )  
-mtime n  
-atime n
```

```
chown . -R  
chmod 755 -R
```

3.2 2.2 MariaDB

3.2.1 2.2.1 MariaDB

4.1 3.1

4.1.1 3.1.1 UTF8

```
MariaDB :: show variables like 'c%';

vim /etc/my.cnf.d/server.cnf

[mysqld]
init_connect = SET collation_connection = utf8_general_ci
character-set-server = utf8
collation-server = utf8_general_ci
init_connect = SET NAMES utf8

vim /etc/my.cnf.d/mysql-clients.cnf

[client]
default-character-set = utf8
```

4.1.2 3.1.2

```
vim /etc/my.cnf.d/server.cnf

[mysqld]
lower_case_table_names = 1
```

4.2 3.2 / &

4.2.1 3.2.1

```
service mysqld stop

mysqld --skip-grant-table .

mysql -u root mysql
use mysql;

update user set password=password('') where user='root';
flush privileges;
```

```
service mysqld stop
service mysqld start
```

4.2.2 3.2.2 mysql

validate_password

```
cd /usr/lib64/mysql/plugin/
mv validate_password.so validate_password.sol

service mysqld restart
```

```
mysql -u root -p
ALTER USER 'root'@'localhost' IDENTIFIED BY '';
flush privileges;
```

4.3 3.3 / &

4.3.1 3.3.1 /

```
root
mysql -uroot -p

use mysql;
select host, user, password from user;

host      @localhost, '%'
localhost , '%'
```

```
create user @localhost identified by 'password';
                '%'
```

```
delete from user where user = '';
```

4.3.2 3.3.2

```
grant all privileges on . to @ identified by '';
*, '%'

flush privileges;
```

```
revoke all on . from @
```

```
show grants for @'%';
```

4.4 3.4 MySQL/MariaDB &

4.4.1 3.4.1 Windows

MariaDB bin cmd

```
mysqldump -uroot -p > D:\\
```

```
mysql -uroot -p123 --default-character-set="utf8" nbsf_dev < D:\Algorithm\nbsf20170215
```

4.4.2 3.4.2 Linux

```
mysqldump -u[] -p[] > [].sql
```

MySQL/MariaDB

```
mysqldump -uroot -p -A > backup_full.sql
```

```
mysql -uroot -p < backup_full.sql
```

sw_test

```
mysqldump -uroot -p sw_test > backup_sw_test.sql
```

sw_test tbl_a

```
mysqldump -uroot -p sw_test tbl_a > backup_sw_test_tbl_a.sql
```

sw_test tbl_a emp_no 100 200

```
mysqldump -uroot -p sw_test tbl_a -w'emp_no >= 100 and emp_no <= 200' > backup_sw_
↳test_tbl_a.sql
```

definition

```
mysqldump -uroot -p sw_test --no-data > backup_sw_test_definition.sql
```

4.4.3 3.4.3

root

```
mysqldump --default-character-set=utf8 --set-charset -unbsf -pnbsf nbsf_dev > nbsf_
↪dev.dump

mysqldump --default-character-set=utf8 --set-charset -uroot -p nbsf_dev | split -b_
↪700m - nbsf_dev.dump
cat nbsf_dev.dump* > nbsf_dev.dump
```

Database

```
mysql
mysql -uroot -p

drop database nbsf_dev;

CREATE DATABASE nbsf_dev DEFAULT CHARACTER SET utf8 DEFAULT COLLATE utf8_general_ci;
```

```
use mysql;

create user 'nbsf'@'%' identified by 'nbsf';

grant all privileges on nbsf_dev.* to 'nbsf'@'%' WITH GRANT OPTION;

flush privileges;

SHOW GRANTS FOR 'nbsf'@'%';
```

Database

```
mysql db

mysql -uroot -pnbsf --default-character-set="utf8" nbsf_dev < nbsf_dev.dump
```

Databases

```
SELECT table_schema, SUM((data_length+index_length)/1024/1024) MB FROM information_
↪schema.tables GROUP BY 1;
6.2      11:15 2568.54983045
        11:49 2569.54983045 30 1MB
        12:54 2570.54983045 60 1MB
        14:15 2570.54983045 80 0MB
        17:08 2573.54983045 180 3MB
6.7      09:00 2625.56545545 112 52MB
        10:31 2625.56545545 90 0MB
        11:44 2626.56545545 70 1MB
        12:47 2627.56545545 60 1MB
        15:10 2627.56545545 130 0MB
        16:55 2629.56545545 100 2MB
6.8      09:40 2638.56545545 17 9MB
6.19     18:00 2770.62795545 11.5 132MB
```

4.5 3.5 HeidiSQL

4.5.1 3.5.1

```
show create table  
Create Table
```

```
INSERT ignore INTO  SELECT * FROM
```

4.5.2 3.5.2

```
select * from ta_eval_health_index2  
where REG_DTM < '2017-05-21'
```

```
delete from ta_eval_health_index2  
where REG_DTM < '2017-05-21'
```


5.1 4.1

5.1.1 4.1.1

```
export DAEMON_NAME=ams-algorithm
export DAEMON_HOME=/home/algorithm/ams
export MAIN=ams-algorithm.jar

export JAVA=/home/algorithm/ams/jre1.8.0_111/bin/java
export XMS=-Xms1024m
export XMX=-Xmx2048m
export JVM_OPTION="-Dfile.encoding=UTF-8 -Dserver.port=24119"
```

5.1.2 4.1.2 dev

```
vim /etc/init.d/algosvc

#!/bin/bash
# description: ITX
# chkconfig: 2345 20 80
# processname: java

export DAEMON_NAME=ams-algorithm
export DAEMON_HOME=/home/algorithm
export MAIN=ams-algorithm.jar

export JAVA=/home/algorithm/jre1.8.0_111/bin/java
export XMS=-Xms1024m
export XMX=-Xmx2048m
export JVM_OPTION="-Dfile.encoding=UTF-8 -Dserver.port=24119"
```

```

do_start()
{
    DAEMON_PID=`ps -ef | grep $DAEMON_NAME | grep java | awk '{print $2}'`
    if [ "${DAEMON_PID}" = "" ]
    then
        for jar in `find $DAEMON_HOME/lib -type d`
        do
            #echo $jar
            CLP=$CLP:$jar/*
        done

        echo "$JAVA $XMS $XMx $JVM_OPTION -DNAME=$DAEMON_NAME -jar $MAIN &"
        cd $DAEMON_HOME

        nohup $JAVA $XMS $XMx $JVM_OPTION -DNAME=$DAEMON_NAME -jar $MAIN 1> /
↪dev/null 2>&1 &
        #nohup $JAVA $XMS $XMx $JVM_OPTION -DNAME=$DAEMON_NAME -jar $MAIN &
        echo "$SYSDP_NAME has been successfully started."

    else
        echo "$DAEMON_NAME already running."
    fi
}

do_stop()
{
    DAEMON_PID=`ps -ef | grep $DAEMON_NAME | grep java | awk '{print $2}'`
    if [ "${DAEMON_PID}" != "" ]
    then
        kill $DAEMON_PID
        echo "$DAEMON_NAME has been successfully stop. PID=$DAEMON_PID"

    else
        echo "$DAEMON_NAME is not running."
    fi
}

case "$1" in
    start)
        echo "$DAEMON_NAME start..."
        do_start
    ;;
    stop)
        echo "$DAEMON_NAME stopping..."
        do_stop
    ;;
    restart)
        $0 stop
        $0 start
    ;;
    *)
        echo "Usage: $0 {start|stop|restart}"
        exit 1
    ;;
esac

exit 0

```

6.1 5.1 Scouter

<https://www.slideshare.net/ienvyou/scouter-jboss>

Server(Collector)

Agent /

Host Agent

OS CPU, Memory, Disk

Java Agent

, Heap Memory, Thread Java

Client(Viewer)

Client

6.2 5.2 Scouter

6.2.1 5.2.1 Windows

Scouter Server(Collector)

start-scouterserver.bat

Client(Viewer)

```
scouter.exe
127.0.0.1:6100
admin/admin
```

Host Agent (Optional)

```
start-scouter-host.bat
```

(Tomcat with WAR)

```
start-tomcat.bat
```

jmeter

```
start-jmeter.bat
```

6.2.2 5.2.2 Linux

```
chmod -fR 755 *
```

Scouter

```
/usr/local/scouter/demo-env1/scouter/server/conf/scouter.conf

net_tcp_listen_port=6100
net_udp_listen_port=6100
db_dir=./database
log_dir=./logs

/usr/local/scouter/demo-env1/scouter/server/startup.sh

-Xms2048m -Xmx2048m
```

Scouter Server(Collector)

```
./start-scouter-server.sh
```

Client(Viewer)

```
scouter.exe
192.168.56.1:6100
admin/admin
```

Host Agent

```
/usr/local/scouter/demo-env1/scouter/agent.host/conf/scouter.conf

# Scouter Server IP Address (Default : 127.0.0.1)
net_collector_ip=192.168.0.147

# Scouter Server Port (Default : 6100)
net_collector_udp_port=6100
net_collector_tcp_port=6100

# Log directory(Default : ./logs)
log_dir=./logs
```

```
-Xmx512m
Ex) -Xms512m -Xmx512m

CPU,
```

Host Agent (Optional)

```
./start-scouters-host.sh
```

WAS

```
/usr/local/scouter/demo-env1/scouter/agent.java/conf/jboss_standalone_ha_11_143.conf
# Scouter Server IP Address (Default : 127.0.0.1)
# Data (Collector & Server)
net_collector_ip=192.168.0.147

# Scouter Server Port (Default : 6100)
net_collector_udp_port=6100
net_collector_tcp_port=6100

# Scouter Name (Default : tomcat1)
# agent name
obj_name=jboss_standalone_ha_11_143

trace_interservice_enabled=true
# Hooking method pattern
# comma(,)
# format : package.Class.method,package.Class2.method2
hook_method_patterns=org.mybatis.jpstore.*.*

# jdbc leak profile
# ibatis framework hook_connection_open_patterns
# format : hook_connection_open_patterns=org.springframework.jdbc.datasource.
↳AbstractDriverBasedDataSource.getConnection
profile_connection_open_enabled=true

# HTTP
trace_interservice_enabled=false
```

JBoss scouter agent.java

```
/usr/local/scouter/demo-env1/scouter/server/env.sh
/opt/was/servers/standalone_ha_11/bin/env.sh

# Byte Code Instrumentation agent Library loading
-jvagent

# agent.java
-Dscouter.config

JBoss OSGI standalone.conf domain.conf config
-Djboss.modules.system.pkgs=org.jboss.byteman,scouter
export JAVA_OPTS=" $JAVA_OPTS -Djboss.modules.system.pkgs=org.jboss.byteman,scouter"
↳JBoss Scouter BCI
```

(Tomcat with WAR)

```
./start-tomcat.sh
```

CHAPTER 7

chapter 6 :

7.1 6.1

```
export PATH=/opt/redmine-3.2.3-1/ruby/bin

cd /opt/redmine-3.2.3-1/apps/redmine/htdocs
bundle install --without development test postgresql sqlite
ruby bin/rake redmine:plugins RAILS_ENV=production

cd /opt/redmine-3.2.3-1/apps/redmine/htdocs
bundle install --without development test postgresql sqlite --no-deployment
bundle install --without development test postgresql sqlite --deployment
ruby bin/rake redmine:plugins RAILS_ENV=production
```

7.1.1 6.1.1

```
/opt/redmine-3.3.3-0/apps/redmine/htdocs/config/configuration.yml
!!

default:
  # Outgoing emails configuration
  # See the examples below and the Rails guide for more configuration options:
  # http://guides.rubyonrails.org/action_mailer_basics.html#action-mailer-
  ↪configuration
  email_delivery:
    delivery_method: :smtp
    smtp_settings:

      address: smtp.gmail.com
      port: 587
      domain: example.net
      authentication: :login
```

```
user_name: @gmail.com
password:

cd /opt/redmine-3.2.3-1
./ctlscript.sh restart apache
```

7.1.2 6.1.2 HTTPS

```
vim /opt/redmine-3.2.3-1/apps/redmine/conf/httpd-prefix.conf

RewriteEngine On
RewriteCond %{HTTPS} !=on
RewriteRule ^/(.*) https://%{SERVER_NAME}/$1 [R,L]

cd /opt/redmine-3.2.3-1
./ctlscript.sh restart apache
```

```
vim /opt/mantis-2.3.1-0/apps/mantis/conf/httpd-prefix.conf

RewriteEngine On
RewriteCond %{HTTPS} !=on
RewriteRule ^/(.*) https://%{SERVER_NAME}/$1 [R,L]

cd /opt/mantis-2.3.1-0
./ctlscript.sh restart apache
```

7.1.3 6.1.3 SSL ()

```
openssl genrsa -out /opt/redmine-3.2.3-1/apache2/conf/server.key 2048
```

```
openssl req -new -key /opt/redmine-3.2.3-1/apache2/conf/server.key -out installdir/
↪apache2/conf/cert.csr
```

```
cd /usr/local
yum install epel-release
rpm -ivh https://rhel6.iuscommunity.org/ius-release.rpm
yum install git python27 python27-devel python27-pip python27-setuptools python27-
↪virtualenv python27-libs
git clone https://github.com/letsencrypt/letsencrypt
```

```
chattr -i /usr/bin/gcc /usr/bin/g++ ( x)
cd /usr/local/letsencrypt
/usr/local/letsencrypt/letsencrypt-auto certonly
chmod 700 /usr/bin/gcc /usr/bin/g++;chattr +i /usr/bin/gcc /usr/bin/g++
```

7.2 6.2 gitlab

7.2.1 6.2.1

<https://about.gitlab.com/downloads/#centos6>

```
rpm -ivh gitlab-ce-9.2.1-ce.0.el6.x86_64.rpm
```

```
gitlab-ctl reconfigure
```

6.2.2

```
# Start all GitLab components
/opt/gitlab/bin/gitlab-ctl start

# Stop all GitLab components
/opt/gitlab/bin/gitlab-ctl stop

# Restart all GitLab components
/opt/gitlab/bin/gitlab-ctl restart
```

7.3 6.3 Jenkins

7.3.1 6.3.1

```
Ant Plugin
GitHub plugin
GitLab Plugin
Gradle Plugin
Publish Over FTP
Publish Over SSH
```

7.3.2 6.3.2 SSH

```
SSH Servers
Name      : 192.168.56.106
Hostname  : 192.168.56.106
Username  : root
Remote Directory : /usr/local/tomcat/webapps/
Passphrase / Password :
```

```
Source files  target/AMS-1.0.war
Remove prefix target/
Exec command  /usr/local/tomcat/copy.sh
```

```
copy.sh
```

```
#!/bin/sh
```

```
backup="`date +%m%d_%H%M`"
```

```
service tomcat stop

sleep 2

rm -rf /usr/local/tomcat/webapps/AMS-1.0
mv /usr/local/tomcat/webapps/AMS-1.0.war "/usr/local/tomcat/oldwebapps/AMS-1.0.war_
↔$backup"
mv /usr/local/tomcat/AMS-1.0.war /usr/local/tomcat/webapps/

sleep 10

service tomcat start

sleep 120

/etc/init.d/tomcat stop

sleep 2

/etc/init.d/tomcat start
```

7.3.3 6.3.3

```
Maven Version : MAVEN_HOME
Goals : clean install
POM : pom.xml
```

8.1 7.1 tomcat

vim /etc/init.d/tomcat

```
export JAVA_HOME=/usr/local/src/jdk1.7.0_80
export PATH=$JAVA_HOME/bin:$PATH

export JAVA_OPTS="-Djava.awt.headless=true -server -Xms2048m -Xmx4096m -
↪XX:NewSize=512m -XX:MaxNewSize=1024m -XX:PermSize=512m -XX:MaxPermSize=1024m -
↪XX:+DisableExplicitGC"

export CATALINA_OPTS="-Denv=product -Denv.servername=projectTomcat"

export CATALINA_HOME=/usr/local/src/tomcat7

#. /etc/profile

case "$1" in
    start)

        echo "Starting tomcat: "

        #su - tomcat -c $CATALINA_HOME/bin/startup.sh
        $CATALINA_HOME/bin/startup.sh

        ;;

    stop)

        echo "Shutting down tomcat: "

        #su - tomcat -c $CATALINA_HOME/bin/shutdown.sh
        $CATALINA_HOME/bin/shutdown.sh
```

```

;;

restart)

    echo "Restarting tomcat: "

    #su - tomcat -c $CATALINA_HOME/bin/shutdown.sh; su - tomcat -c $CATALINA_HOME/
↪bin/startup.sh
    $CATALINA_HOME/bin/shutdown.sh; su - tomcat -c $CATALINA_HOME/bin/startup.sh

;;

*)

    echo "Usage: service tomcat {start|stop|restart}"

    exit 1

esac

exit 0

```

8.2 7.2 HTTPS()

8.2.1 7.2.1

Windows cmd

```

keytool.exe(JDK_HOME/bin)    ( path )
keytool.exe

cd C:\privateCert

```

(:TestServer)

```

keytool -genkey -keyalg RSA -sigalg SHA1withRSA -alias TestServer -keysize 2048 -
↪keystore TestServer.key
( : KR)
TestServer.key

```

(:TestServer)

```

C:\privateCert>keytool -certreq -alias TestServer -keyalg RSA -sigalg SHA1withRSA -
↪file TestServer.csr -keystore TestServer.key
TestServer.csr

```

```

server.xml (:TOMCAT_HOME/conf, :Server/WAS)
SSL (8443 )
    <Connector port="8443" protocol="HTTP/1.1" SSLEnabled="true"
        maxThreads="150" scheme="https" secure="true"
        clientAuth="false" sslProtocol="TLS"
        keystoreFile="/root/privateCert/TestServer.key" keystorePass="tmddhks" ↪
↪/>

```

```
restart
```

8.2.2 7.2.2

8080

```
</Host>
<Context path="/" docBase="/usr/local/apache-tomcat-7.0.78/webapps/AMS-1.0" debug="0"
↪reloadable="true" />
```

8.2.3 7.2.3

```
vim $CATALINA_HOME/conf/tomcat-users.xml
<tomcat-users>
<role rolename="admin-gui"/>
<role rolename="manager-gui"/>
<user username="" password="" roles=" admin-gui ,manager-gui"/>
</tomcat-users>
```

8.3 7.3 vboxvmervice(VirtualBox)

8.3.1 7.3.1

<http://blog.djjproject.com/184>

```
C:\vms\VBoxVmService.ini

ShutdownMethod=
savestate(      )
acpipowerbutton(VM      )
```


9.1 8.1

```
1. URL
   1.1 ServiceImpl(service.~~~) or
   1.2 Service or
2. Controller @RequestMapping or
3. Mapper or
4. URL JSP or
5. Mapper.xml or (DB)
```