
kubernetes-python-client Documentation

Kubernetes

Jul 17, 2023

Contents

1	Kubernetes Python Client	3
1.1	Installation	3
1.2	Examples	3
1.3	Documentation	4
1.4	Compatibility	4
1.5	Homogenizing the Kubernetes Python Client versions	5
1.6	Community, Support, Discussion	6
1.7	Troubleshooting	6
2	Installation	7
3	Usage	9
3.1	Deployments	9
4	kubernetes	11
4.1	kubernetes package	11
5	Contributing Guidelines	65
5.1	How to become a contributor and submit your own code	65
5.2	Composition of This Repository and Where/How to Contribute	65
5.3	Running Tests Locally	67
6	Indices and tables	69

Contents:

Kubernetes Python Client

Build Status PyPI version codecov pypi supported versions Client Capabilities Client Support Level

Python client for the `kubernetes` API.

1.1 Installation

From source:

```
git clone --recursive https://github.com/kubernetes-client/python.git
cd python
python setup.py install
```

From `PyPI` directly:

```
pip install kubernetes
```

1.2 Examples

list all pods:

```
from kubernetes import client, config

# Configs can be set in Configuration class directly or using helper utility
config.load_kube_config()

v1 = client.CoreV1Api()
print("Listing pods with their IPs:")
ret = v1.list_pod_for_all_namespaces(watch=False)
for i in ret.items:
    print("%s\t%s\t%s" % (i.status.pod_ip, i.metadata.namespace, i.metadata.name))
```

watch on namespace object:

```
from kubernetes import client, config, watch

# Configs can be set in Configuration class directly or using helper utility
config.load_kube_config()

v1 = client.CoreV1Api()
count = 10
w = watch.Watch()
for event in w.stream(v1.list_namespace, _request_timeout=60):
    print("Event: %s %s" % (event['type'], event['object'].metadata.name))
    count -= 1
    if not count:
        w.stop()

print("Ended.")
```

More examples can be found in [examples](#) folder. To run examples, run this command:

```
python -m examples.example1
```

(replace example1 with one of the filenames in the examples folder)

1.3 Documentation

All APIs and Models' documentation can be found at the [Generated client's README file](#)

1.4 Compatibility

client-python follows [semver](#), so until the major version of client-python gets increased, your code will continue to work with explicitly supported versions of Kubernetes clusters.

1.4.1 Compatibility matrix of supported client versions

- [client 9.y.z](#): Kubernetes 1.12 or below (+-), Kubernetes 1.13 (✓), Kubernetes 1.14 or above (+-)
- [client 10.y.z](#): Kubernetes 1.13 or below (+-), Kubernetes 1.14 (✓), Kubernetes 1.14 or above (+-)
- [client 11.y.z](#): Kubernetes 1.14 or below (+-), Kubernetes 1.15 (✓), Kubernetes 1.16 or above (+-)
- [client 12.y.z](#): Kubernetes 1.15 or below (+-), Kubernetes 1.16 (✓), Kubernetes 1.17 or above (+-)
- [client 17.y.z](#): Kubernetes 1.16 or below (+-), Kubernetes 1.17 (✓), Kubernetes 1.18 or above (+-)
- [client 18.y.z](#): Kubernetes 1.17 or below (+-), Kubernetes 1.18 (✓), Kubernetes 1.19 or above (+-)
- [client 19.y.z](#): Kubernetes 1.18 or below (+-), Kubernetes 1.19 (✓), Kubernetes 1.20 or above (+-)
- [client 20.y.z](#): Kubernetes 1.19 or below (+-), Kubernetes 1.20 (✓), Kubernetes 1.21 or above (+-)
- [client 21.y.z](#): Kubernetes 1.20 or below (+-), Kubernetes 1.21 (✓), Kubernetes 1.22 or above (+-)
- [client 22.y.z](#): Kubernetes 1.21 or below (+-), Kubernetes 1.22 (✓), Kubernetes 1.23 or above (+-)
- [client 23.y.z](#): Kubernetes 1.22 or below (+-), Kubernetes 1.23 (✓), Kubernetes 1.24 or above (+-)

- **client 24.y.z**: Kubernetes 1.23 or below (+-), Kubernetes 1.24 (✓), Kubernetes 1.25 or above (+-)
- **client 25.y.z**: Kubernetes 1.24 or below (+-), Kubernetes 1.25 (✓), Kubernetes 1.26 or above (+-)
- **client 26.y.z**: Kubernetes 1.25 or below (+-), Kubernetes 1.26 (✓), Kubernetes 1.27 or above (+-)
- **client 27.y.z**: Kubernetes 1.26 or below (+-), Kubernetes 1.27 (✓), Kubernetes 1.28 or above (+-)

See [here](#) for an explanation of why there is no v13-v16 release.

Key:

- ✓ Exactly the same features / API objects in both client-python and the Kubernetes version.
- + client-python has features or API objects that may not be present in the Kubernetes cluster, either due to that client-python has additional new API, or that the server has removed old API. However, everything they have in common (i.e., most APIs) will work. Please note that alpha APIs may vanish or change significantly in a single release.
- – The Kubernetes cluster has features the client-python library can't use, either due to the server has additional new API, or that client-python has removed old API. However, everything they share in common (i.e., most APIs) will work.

See the [CHANGELOG](#) for a detailed description of changes between client-python versions.

See [here](#) for an explanation of why there is no v13-v16 release.

Key:

- ✓ Changes in main Kubernetes repo are manually ([should be automated](#)) published to client-python when they are available.
- No longer maintained; please upgrade.

Kubernetes supports [three minor releases](#) at a time. “Support” means we expect users to be running that version in production, though we may not port fixes back before the latest minor version. For example, when v1.3 comes out, v1.0 will no longer be supported. In consistent with Kubernetes support policy, we expect to support **three GA major releases** (corresponding to three Kubernetes minor releases) at a time.

Note: There would be no maintenance for alpha/beta releases except the latest one.

Exception to the above support rule: Since we are running behind on releases, we will support Alpha/Beta releases for a greater number of clients until we catch up with the upstream version.

1.5 Homogenizing the Kubernetes Python Client versions

The client releases v12 and before following a versioning schema where the major version was 4 integer positions behind the Kubernetes minor on which the client is based on. For example, v12.0.0 is based on Kubernetes v1.16, v11.0.0 is based on Kubernetes v1.15 and so on.

This created a lot of confusion tracking two different version numbers for each client release. It was decided to homogenize the version scheme starting from the Kubernetes Python client based on Kubernetes v1.17. The versioning scheme of the client from this release would be vY.Z.P where Y and Z are the Kubernetes minor and patch release numbers from Kubernetes v1.Y.Z and P is the client specific patch release numbers to accommodate changes and fixes done specifically to the client. For more details, refer [this issue](#).

1.6 Community, Support, Discussion

If you have any problem on using the package or any suggestions, please start with reaching the [Kubernetes clients slack channel](#), or filing an [issue](#) to let us know. You can also reach the maintainers of this project at [SIG API Machinery](#), where this project falls under.

1.6.1 Code of Conduct

Participation in the Kubernetes community is governed by the [CNCF Code of Conduct](#).

1.7 Troubleshooting

1.7.1 SSLError on macOS

If you get an `SSLError`, you likely need to update your version of python. The version that ships with macOS may not be supported.

Install the latest version of python with [brew](#):

```
brew install python
```

Once installed, you can query the version of OpenSSL like so:

```
python -c "import ssl; print (ssl.OPENSSL_VERSION)"
```

You'll need a version with OpenSSL version 1.0.0 or later.

1.7.2 Hostname doesn't match

If you get an `ssl.CertificateError` complaining about hostname match, your installed packages does not meet version [requirements](#). Specifically check `ipaddress` and `urllib3` package versions to make sure they met requirements in [requirements.txt](#) file.

1.7.3 Why Exec/Attach calls doesn't work

Starting from 4.0 release, we do not support directly calling `exec` or `attach` calls. you should use `stream` module to call them. so instead of `resp = api.connect_get_namespaced_pod_exec(name, ...` you should call `resp = stream(api.connect_get_namespaced_pod_exec, name, ...`

Using `Stream` will overwrite the requests protocol in `core_v1_api.CoreV1Api()` This will cause a failure in non-`exec/attach` calls. If you reuse your api client object, you will need to recreate it between api calls that use `stream` and other api calls.

See more at [exec example](#).

[back to top](#)

CHAPTER 2

Installation

At the command line:

```
$ pip install kubernetes
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv kubernetes  
$ pip install kubernetes
```


The directory `examples` contains a few examples on how to use the client.

3.1 Deployments

Here is a simple usage of creating a deployment from a yaml file:

The following example demonstrates how to create, update and delete deployments without the need to read a file from the disk:

4.1 kubernetes package

4.1.1 Subpackages

kubernetes.client package

Subpackages

kubernetes.client.api package

Submodules

kubernetes.client.api.admissionregistration_api module

kubernetes.client.api.admissionregistration_v1_api module

kubernetes.client.api.admissionregistration_v1alpha1_api module

kubernetes.client.api.apixextensions_api module

kubernetes.client.api.apixextensions_v1_api module

kubernetes.client.api.apiregistration_api module

kubernetes.client.api.apiregistration_v1_api module

`kubernetes.client.api.apis_api` module

`kubernetes.client.api.apps_api` module

`kubernetes.client.api.apps_v1_api` module

`kubernetes.client.api.authentication_api` module

`kubernetes.client.api.authentication_v1_api` module

`kubernetes.client.api.authentication_v1alpha1_api` module

`kubernetes.client.api.authentication_v1beta1_api` module

`kubernetes.client.api.authorization_api` module

`kubernetes.client.api.authorization_v1_api` module

`kubernetes.client.api.autoscaling_api` module

`kubernetes.client.api.autoscaling_v1_api` module

`kubernetes.client.api.autoscaling_v2_api` module

`kubernetes.client.api.batch_api` module

`kubernetes.client.api.batch_v1_api` module

`kubernetes.client.api.certificates_api` module

`kubernetes.client.api.certificates_v1_api` module

`kubernetes.client.api.certificates_v1alpha1_api` module

`kubernetes.client.api.coordination_api` module

`kubernetes.client.api.coordination_v1_api` module

`kubernetes.client.api.core_api` module

`kubernetes.client.api.core_v1_api` module

`kubernetes.client.api.custom_objects_api` module

`kubernetes.client.api.discovery_api` module

`kubernetes.client.api.discovery_v1_api` module

`kubernetes.client.api.events_api` module

`kubernetes.client.api.events_v1_api` module

`kubernetes.client.api.flowcontrol_apiserver_api` module

`kubernetes.client.api.flowcontrol_apiserver_v1beta2_api` module

`kubernetes.client.api.flowcontrol_apiserver_v1beta3_api` module

`kubernetes.client.api.internal_apiserver_api` module

`kubernetes.client.api.internal_apiserver_v1alpha1_api` module

`kubernetes.client.api.logs_api` module

`kubernetes.client.api.networking_api` module

`kubernetes.client.api.networking_v1_api` module

`kubernetes.client.api.networking_v1alpha1_api` module

`kubernetes.client.api.node_api` module

`kubernetes.client.api.node_v1_api` module

`kubernetes.client.api.openid_api` module

`kubernetes.client.api.policy_api` module

`kubernetes.client.api.policy_v1_api` module

`kubernetes.client.api.rbac_authorization_api` module

`kubernetes.client.api.rbac_authorization_v1_api` module

`kubernetes.client.api.resource_api` module

`kubernetes.client.api.resource_v1alpha2_api` module

`kubernetes.client.api.scheduling_api` module

`kubernetes.client.api.scheduling_v1_api` module

`kubernetes.client.api.storage_api` module

`kubernetes.client.api.storage_v1_api` module

`kubernetes.client.api.version_api` module

`kubernetes.client.api.well_known_api` module

Module contents

`kubernetes.client.models` package

Submodules

`kubernetes.client.models.admissionregistration_v1_service_reference` module

`kubernetes.client.models.admissionregistration_v1_webhook_client_config` module

`kubernetes.client.models.apiextensions_v1_service_reference` module

`kubernetes.client.models.apiextensions_v1_webhook_client_config` module

`kubernetes.client.models.apiregistration_v1_service_reference` module

`kubernetes.client.models.authentication_v1_token_request` module

`kubernetes.client.models.core_v1_endpoint_port` module

`kubernetes.client.models.core_v1_event` module

`kubernetes.client.models.core_v1_event_list` module

`kubernetes.client.models.core_v1_event_series` module

`kubernetes.client.models.discovery_v1_endpoint_port` module

`kubernetes.client.models.events_v1_event` module

`kubernetes.client.models.events_v1_event_list` module

`kubernetes.client.models.events_v1_event_series` module

`kubernetes.client.models.storage_v1_token_request` module

`kubernetes.client.models.v1_affinity` module

`kubernetes.client.models.v1_aggregation_rule` module

`kubernetes.client.models.v1_api_group` module

`kubernetes.client.models.v1_api_group_list` module

`kubernetes.client.models.v1_api_resource` module

`kubernetes.client.models.v1_api_resource_list` module

`kubernetes.client.models.v1_api_service` module

`kubernetes.client.models.v1_api_service_condition` module

`kubernetes.client.models.v1_api_service_list` module

`kubernetes.client.models.v1_api_service_spec` module

`kubernetes.client.models.v1_api_service_status` module

`kubernetes.client.models.v1_api_versions` module

`kubernetes.client.models.v1_attached_volume` module

`kubernetes.client.models.v1_aws_elastic_block_store_volume_source` module

`kubernetes.client.models.v1_azure_disk_volume_source` module

`kubernetes.client.models.v1_azure_file_persistent_volume_source` module

`kubernetes.client.models.v1_azure_file_volume_source` module

`kubernetes.client.models.v1_binding` module

`kubernetes.client.models.v1_bound_object_reference` module

`kubernetes.client.models.v1_capabilities` module

`kubernetes.client.models.v1_ceph_fs_persistent_volume_source` module

`kubernetes.client.models.v1_ceph_fs_volume_source` module

`kubernetes.client.models.v1_certificate_signing_request` module

`kubernetes.client.models.v1_certificate_signing_request_condition` module

`kubernetes.client.models.v1_certificate_signing_request_list` module

`kubernetes.client.models.v1_certificate_signing_request_spec` module

`kubernetes.client.models.v1_certificate_signing_request_status` module

`kubernetes.client.models.v1_cinder_persistent_volume_source` module

`kubernetes.client.models.v1_cinder_volume_source` module

`kubernetes.client.models.v1_claim_source` module

`kubernetes.client.models.v1_client_ip_config` module

`kubernetes.client.models.v1_cluster_role` module

`kubernetes.client.models.v1_cluster_role_binding` module

`kubernetes.client.models.v1_cluster_role_binding_list` module

`kubernetes.client.models.v1_cluster_role_list` module

`kubernetes.client.models.v1_component_condition` module

`kubernetes.client.models.v1_component_status` module

`kubernetes.client.models.v1_component_status_list` module

`kubernetes.client.models.v1_condition` module

`kubernetes.client.models.v1_config_map` module

`kubernetes.client.models.v1_config_map_env_source` module

`kubernetes.client.models.v1_config_map_key_selector` module

`kubernetes.client.models.v1_config_map_list` module

`kubernetes.client.models.v1_config_map_node_config_source` module

`kubernetes.client.models.v1_config_map_projection` module

`kubernetes.client.models.v1_config_map_volume_source` module

`kubernetes.client.models.v1_container` module

`kubernetes.client.models.v1_container_image` module

`kubernetes.client.models.v1_container_port` module

`kubernetes.client.models.v1_container_resize_policy` module

`kubernetes.client.models.v1_container_state` module

`kubernetes.client.models.v1_container_state_running` module

`kubernetes.client.models.v1_container_state_terminated` module

`kubernetes.client.models.v1_container_state_waiting` module

`kubernetes.client.models.v1_container_status` module

`kubernetes.client.models.v1_controller_revision` module

`kubernetes.client.models.v1_controller_revision_list` module

`kubernetes.client.models.v1_cron_job` module

`kubernetes.client.models.v1_cron_job_list` module

`kubernetes.client.models.v1_cron_job_spec` module

`kubernetes.client.models.v1_cron_job_status` module

`kubernetes.client.models.v1_cross_version_object_reference` module

`kubernetes.client.models.v1_csi_driver` module

`kubernetes.client.models.v1_csi_driver_list` module

`kubernetes.client.models.v1_csi_driver_spec` module

`kubernetes.client.models.v1_csi_node` module

`kubernetes.client.models.v1_csi_node_driver` module

`kubernetes.client.models.v1_csi_node_list` module

`kubernetes.client.models.v1_csi_node_spec` module

`kubernetes.client.models.v1_csi_persistent_volume_source` module

`kubernetes.client.models.v1_csi_storage_capacity` module

`kubernetes.client.models.v1_csi_storage_capacity_list` module

`kubernetes.client.models.v1_csi_volume_source` module

`kubernetes.client.models.v1_custom_resource_column_definition` module

`kubernetes.client.models.v1_custom_resource_conversion` module

`kubernetes.client.models.v1_custom_resource_definition` module

`kubernetes.client.models.v1_custom_resource_definition_condition` module

`kubernetes.client.models.v1_custom_resource_definition_list` module

`kubernetes.client.models.v1_custom_resource_definition_names` module

`kubernetes.client.models.v1_custom_resource_definition_spec` module

`kubernetes.client.models.v1_custom_resource_definition_status` module

`kubernetes.client.models.v1_custom_resource_definition_version` module

`kubernetes.client.models.v1_custom_resource_subresource_scale` module

`kubernetes.client.models.v1_custom_resource_subresources` module

`kubernetes.client.models.v1_custom_resource_validation` module

`kubernetes.client.models.v1_daemon_endpoint` module

`kubernetes.client.models.v1_daemon_set` module

`kubernetes.client.models.v1_daemon_set_condition` module

`kubernetes.client.models.v1_daemon_set_list` module

`kubernetes.client.models.v1_daemon_set_spec` module

`kubernetes.client.models.v1_daemon_set_status` module

`kubernetes.client.models.v1_daemon_set_update_strategy` module

`kubernetes.client.models.v1_delete_options` module

`kubernetes.client.models.v1_deployment` module

`kubernetes.client.models.v1_deployment_condition` module

`kubernetes.client.models.v1_deployment_list` module

`kubernetes.client.models.v1_deployment_spec` module

`kubernetes.client.models.v1_deployment_status` module

`kubernetes.client.models.v1_deployment_strategy` module

`kubernetes.client.models.v1_downward_api_projection` module

`kubernetes.client.models.v1_downward_api_volume_file` module

`kubernetes.client.models.v1_downward_api_volume_source` module

`kubernetes.client.models.v1_empty_dir_volume_source` module

`kubernetes.client.models.v1_endpoint` module

`kubernetes.client.models.v1_endpoint_address` module

`kubernetes.client.models.v1_endpoint_conditions` module

`kubernetes.client.models.v1_endpoint_hints` module

`kubernetes.client.models.v1_endpoint_slice` module

`kubernetes.client.models.v1_endpoint_slice_list` module

`kubernetes.client.models.v1_endpoint_subset` module

`kubernetes.client.models.v1_endpoints` module

`kubernetes.client.models.v1_endpoints_list` module

`kubernetes.client.models.v1_env_from_source` module

`kubernetes.client.models.v1_env_var` module

`kubernetes.client.models.v1_env_var_source` module

`kubernetes.client.models.v1_ephemeral_container` module

kubernetes.client.models.v1_ephemeral_volume_source module

kubernetes.client.models.v1_event_source module

kubernetes.client.models.v1_eviction module

kubernetes.client.models.v1_exec_action module

kubernetes.client.models.v1_external_documentation module

kubernetes.client.models.v1_fc_volume_source module

kubernetes.client.models.v1_flex_persistent_volume_source module

kubernetes.client.models.v1_flex_volume_source module

kubernetes.client.models.v1_flocker_volume_source module

kubernetes.client.models.v1_for_zone module

kubernetes.client.models.v1_gce_persistent_disk_volume_source module

kubernetes.client.models.v1_git_repo_volume_source module

kubernetes.client.models.v1_glusterfs_persistent_volume_source module

kubernetes.client.models.v1_glusterfs_volume_source module

kubernetes.client.models.v1_group_version_for_discovery module

kubernetes.client.models.v1_grpc_action module

kubernetes.client.models.v1_horizontal_pod_autoscaler module

kubernetes.client.models.v1_horizontal_pod_autoscaler_list module

kubernetes.client.models.v1_horizontal_pod_autoscaler_spec module

kubernetes.client.models.v1_horizontal_pod_autoscaler_status module

kubernetes.client.models.v1_host_alias module

kubernetes.client.models.v1_host_path_volume_source module

kubernetes.client.models.v1_http_get_action module

`kubernetes.client.models.v1_http_header` module

`kubernetes.client.models.v1_http_ingress_path` module

`kubernetes.client.models.v1_http_ingress_rule_value` module

`kubernetes.client.models.v1_ingress` module

`kubernetes.client.models.v1_ingress_backend` module

`kubernetes.client.models.v1_ingress_class` module

`kubernetes.client.models.v1_ingress_class_list` module

`kubernetes.client.models.v1_ingress_class_parameters_reference` module

`kubernetes.client.models.v1_ingress_class_spec` module

`kubernetes.client.models.v1_ingress_list` module

`kubernetes.client.models.v1_ingress_load_balancer_ingress` module

`kubernetes.client.models.v1_ingress_load_balancer_status` module

`kubernetes.client.models.v1_ingress_port_status` module

`kubernetes.client.models.v1_ingress_rule` module

`kubernetes.client.models.v1_ingress_service_backend` module

`kubernetes.client.models.v1_ingress_spec` module

`kubernetes.client.models.v1_ingress_status` module

`kubernetes.client.models.v1_ingress_tls` module

`kubernetes.client.models.v1_ip_block` module

`kubernetes.client.models.v1_iscsi_persistent_volume_source` module

`kubernetes.client.models.v1_iscsi_volume_source` module

`kubernetes.client.models.v1_job` module

`kubernetes.client.models.v1_job_condition` module

`kubernetes.client.models.v1_job_list` module

`kubernetes.client.models.v1_job_spec` module

`kubernetes.client.models.v1_job_status` module

`kubernetes.client.models.v1_job_template_spec` module

`kubernetes.client.models.v1_json_schema_props` module

`kubernetes.client.models.v1_key_to_path` module

`kubernetes.client.models.v1_label_selector` module

`kubernetes.client.models.v1_label_selector_requirement` module

`kubernetes.client.models.v1_lease` module

`kubernetes.client.models.v1_lease_list` module

`kubernetes.client.models.v1_lease_spec` module

`kubernetes.client.models.v1_lifecycle` module

`kubernetes.client.models.v1_lifecycle_handler` module

`kubernetes.client.models.v1_limit_range` module

`kubernetes.client.models.v1_limit_range_item` module

`kubernetes.client.models.v1_limit_range_list` module

`kubernetes.client.models.v1_limit_range_spec` module

`kubernetes.client.models.v1_list_meta` module

`kubernetes.client.models.v1_load_balancer_ingress` module

`kubernetes.client.models.v1_load_balancer_status` module

`kubernetes.client.models.v1_local_object_reference` module

`kubernetes.client.models.v1_local_subject_access_review` module

`kubernetes.client.models.v1_local_volume_source` module

kubernetes.client.models.v1_managed_fields_entry module

kubernetes.client.models.v1_match_condition module

kubernetes.client.models.v1_mutating_webhook module

kubernetes.client.models.v1_mutating_webhook_configuration module

kubernetes.client.models.v1_mutating_webhook_configuration_list module

kubernetes.client.models.v1_namespace module

kubernetes.client.models.v1_namespace_condition module

kubernetes.client.models.v1_namespace_list module

kubernetes.client.models.v1_namespace_spec module

kubernetes.client.models.v1_namespace_status module

kubernetes.client.models.v1_network_policy module

kubernetes.client.models.v1_network_policy_egress_rule module

kubernetes.client.models.v1_network_policy_ingress_rule module

kubernetes.client.models.v1_network_policy_list module

kubernetes.client.models.v1_network_policy_peer module

kubernetes.client.models.v1_network_policy_port module

kubernetes.client.models.v1_network_policy_spec module

kubernetes.client.models.v1_network_policy_status module

kubernetes.client.models.v1_nfs_volume_source module

kubernetes.client.models.v1_node module

kubernetes.client.models.v1_node_address module

kubernetes.client.models.v1_node_affinity module

kubernetes.client.models.v1_node_condition module

kubernetes.client.models.v1_node_config_source module

kubernetes.client.models.v1_node_config_status module

kubernetes.client.models.v1_node_daemon_endpoints module

kubernetes.client.models.v1_node_list module

kubernetes.client.models.v1_node_selector module

kubernetes.client.models.v1_node_selector_requirement module

kubernetes.client.models.v1_node_selector_term module

kubernetes.client.models.v1_node_spec module

kubernetes.client.models.v1_node_status module

kubernetes.client.models.v1_node_system_info module

kubernetes.client.models.v1_non_resource_attributes module

kubernetes.client.models.v1_non_resource_rule module

kubernetes.client.models.v1_object_field_selector module

kubernetes.client.models.v1_object_meta module

kubernetes.client.models.v1_object_reference module

kubernetes.client.models.v1_overhead module

kubernetes.client.models.v1_owner_reference module

kubernetes.client.models.v1_persistent_volume module

kubernetes.client.models.v1_persistent_volume_claim module

kubernetes.client.models.v1_persistent_volume_claim_condition module

kubernetes.client.models.v1_persistent_volume_claim_list module

kubernetes.client.models.v1_persistent_volume_claim_spec module

kubernetes.client.models.v1_persistent_volume_claim_status module

`kubernetes.client.models.v1_persistent_volume_claim_template` module

`kubernetes.client.models.v1_persistent_volume_claim_volume_source` module

`kubernetes.client.models.v1_persistent_volume_list` module

`kubernetes.client.models.v1_persistent_volume_spec` module

`kubernetes.client.models.v1_persistent_volume_status` module

`kubernetes.client.models.v1_photon_persistent_disk_volume_source` module

`kubernetes.client.models.v1_pod` module

`kubernetes.client.models.v1_pod_affinity` module

`kubernetes.client.models.v1_pod_affinity_term` module

`kubernetes.client.models.v1_pod_anti_affinity` module

`kubernetes.client.models.v1_pod_condition` module

`kubernetes.client.models.v1_pod_disruption_budget` module

`kubernetes.client.models.v1_pod_disruption_budget_list` module

`kubernetes.client.models.v1_pod_disruption_budget_spec` module

`kubernetes.client.models.v1_pod_disruption_budget_status` module

`kubernetes.client.models.v1_pod_dns_config` module

`kubernetes.client.models.v1_pod_dns_config_option` module

`kubernetes.client.models.v1_pod_failure_policy` module

`kubernetes.client.models.v1_pod_failure_policy_on_exit_codes_requirement` module

`kubernetes.client.models.v1_pod_failure_policy_on_pod_conditions_pattern` module

`kubernetes.client.models.v1_pod_failure_policy_rule` module

`kubernetes.client.models.v1_pod_ip` module

`kubernetes.client.models.v1_pod_list` module

kubernetes.client.models.v1_pod_os module

kubernetes.client.models.v1_pod_readiness_gate module

kubernetes.client.models.v1_pod_resource_claim module

kubernetes.client.models.v1_pod_scheduling_gate module

kubernetes.client.models.v1_pod_security_context module

kubernetes.client.models.v1_pod_spec module

kubernetes.client.models.v1_pod_status module

kubernetes.client.models.v1_pod_template module

kubernetes.client.models.v1_pod_template_list module

kubernetes.client.models.v1_pod_template_spec module

kubernetes.client.models.v1_policy_rule module

kubernetes.client.models.v1_port_status module

kubernetes.client.models.v1_portworx_volume_source module

kubernetes.client.models.v1_preconditions module

kubernetes.client.models.v1_preferred_scheduling_term module

kubernetes.client.models.v1_priority_class module

kubernetes.client.models.v1_priority_class_list module

kubernetes.client.models.v1_probe module

kubernetes.client.models.v1_projected_volume_source module

kubernetes.client.models.v1_quobyte_volume_source module

kubernetes.client.models.v1_rbd_persistent_volume_source module

kubernetes.client.models.v1_rbd_volume_source module

kubernetes.client.models.v1_replica_set module

`kubernetes.client.models.v1_replica_set_condition` module

`kubernetes.client.models.v1_replica_set_list` module

`kubernetes.client.models.v1_replica_set_spec` module

`kubernetes.client.models.v1_replica_set_status` module

`kubernetes.client.models.v1_replication_controller` module

`kubernetes.client.models.v1_replication_controller_condition` module

`kubernetes.client.models.v1_replication_controller_list` module

`kubernetes.client.models.v1_replication_controller_spec` module

`kubernetes.client.models.v1_replication_controller_status` module

`kubernetes.client.models.v1_resource_attributes` module

`kubernetes.client.models.v1_resource_claim` module

`kubernetes.client.models.v1_resource_field_selector` module

`kubernetes.client.models.v1_resource_quota` module

`kubernetes.client.models.v1_resource_quota_list` module

`kubernetes.client.models.v1_resource_quota_spec` module

`kubernetes.client.models.v1_resource_quota_status` module

`kubernetes.client.models.v1_resource_requirements` module

`kubernetes.client.models.v1_resource_rule` module

`kubernetes.client.models.v1_role` module

`kubernetes.client.models.v1_role_binding` module

`kubernetes.client.models.v1_role_binding_list` module

`kubernetes.client.models.v1_role_list` module

`kubernetes.client.models.v1_role_ref` module

`kubernetes.client.models.v1_rolling_update_daemon_set` module

`kubernetes.client.models.v1_rolling_update_deployment` module

`kubernetes.client.models.v1_rolling_update_stateful_set_strategy` module

`kubernetes.client.models.v1_rule_with_operations` module

`kubernetes.client.models.v1_runtime_class` module

`kubernetes.client.models.v1_runtime_class_list` module

`kubernetes.client.models.v1_scale` module

`kubernetes.client.models.v1_scale_io_persistent_volume_source` module

`kubernetes.client.models.v1_scale_io_volume_source` module

`kubernetes.client.models.v1_scale_spec` module

`kubernetes.client.models.v1_scale_status` module

`kubernetes.client.models.v1_scheduling` module

`kubernetes.client.models.v1_scope_selector` module

`kubernetes.client.models.v1_scoped_resource_selector_requirement` module

`kubernetes.client.models.v1_se_linux_options` module

`kubernetes.client.models.v1_seccomp_profile` module

`kubernetes.client.models.v1_secret` module

`kubernetes.client.models.v1_secret_env_source` module

`kubernetes.client.models.v1_secret_key_selector` module

`kubernetes.client.models.v1_secret_list` module

`kubernetes.client.models.v1_secret_projection` module

`kubernetes.client.models.v1_secret_reference` module

`kubernetes.client.models.v1_secret_volume_source` module

`kubernetes.client.models.v1_security_context` module

`kubernetes.client.models.v1_self_subject_access_review` module

`kubernetes.client.models.v1_self_subject_access_review_spec` module

`kubernetes.client.models.v1_self_subject_rules_review` module

`kubernetes.client.models.v1_self_subject_rules_review_spec` module

`kubernetes.client.models.v1_server_address_by_client_cidr` module

`kubernetes.client.models.v1_service` module

`kubernetes.client.models.v1_service_account` module

`kubernetes.client.models.v1_service_account_list` module

`kubernetes.client.models.v1_service_account_token_projection` module

`kubernetes.client.models.v1_service_backend_port` module

`kubernetes.client.models.v1_service_list` module

`kubernetes.client.models.v1_service_port` module

`kubernetes.client.models.v1_service_spec` module

`kubernetes.client.models.v1_service_status` module

`kubernetes.client.models.v1_session_affinity_config` module

`kubernetes.client.models.v1_stateful_set` module

`kubernetes.client.models.v1_stateful_set_condition` module

`kubernetes.client.models.v1_stateful_set_list` module

`kubernetes.client.models.v1_stateful_set_ordinals` module

`kubernetes.client.models.v1_stateful_set_persistent_volume_claim_retention_policy` module

`kubernetes.client.models.v1_stateful_set_spec` module

`kubernetes.client.models.v1_stateful_set_status` module

`kubernetes.client.models.v1_stateful_set_update_strategy` module

`kubernetes.client.models.v1_status` module

`kubernetes.client.models.v1_status_cause` module

`kubernetes.client.models.v1_status_details` module

`kubernetes.client.models.v1_storage_class` module

`kubernetes.client.models.v1_storage_class_list` module

`kubernetes.client.models.v1_storage_os_persistent_volume_source` module

`kubernetes.client.models.v1_storage_os_volume_source` module

`kubernetes.client.models.v1_subject` module

`kubernetes.client.models.v1_subject_access_review` module

`kubernetes.client.models.v1_subject_access_review_spec` module

`kubernetes.client.models.v1_subject_access_review_status` module

`kubernetes.client.models.v1_subject_rules_review_status` module

`kubernetes.client.models.v1_sysctl` module

`kubernetes.client.models.v1_taint` module

`kubernetes.client.models.v1_tcp_socket_action` module

`kubernetes.client.models.v1_token_request_spec` module

`kubernetes.client.models.v1_token_request_status` module

`kubernetes.client.models.v1_token_review` module

`kubernetes.client.models.v1_token_review_spec` module

`kubernetes.client.models.v1_token_review_status` module

`kubernetes.client.models.v1_toleration` module

`kubernetes.client.models.v1_topology_selector_label_requirement` module

`kubernetes.client.models.v1_topology_selector_term` module

`kubernetes.client.models.v1_topology_spread_constraint` module

`kubernetes.client.models.v1_typed_local_object_reference` module

`kubernetes.client.models.v1_typed_object_reference` module

`kubernetes.client.models.v1_uncounted_terminated_pods` module

`kubernetes.client.models.v1_user_info` module

`kubernetes.client.models.v1_validating_webhook` module

`kubernetes.client.models.v1_validating_webhook_configuration` module

`kubernetes.client.models.v1_validating_webhook_configuration_list` module

`kubernetes.client.models.v1_validation_rule` module

`kubernetes.client.models.v1_volume` module

`kubernetes.client.models.v1_volume_attachment` module

`kubernetes.client.models.v1_volume_attachment_list` module

`kubernetes.client.models.v1_volume_attachment_source` module

`kubernetes.client.models.v1_volume_attachment_spec` module

`kubernetes.client.models.v1_volume_attachment_status` module

`kubernetes.client.models.v1_volume_device` module

`kubernetes.client.models.v1_volume_error` module

`kubernetes.client.models.v1_volume_mount` module

`kubernetes.client.models.v1_volume_node_affinity` module

`kubernetes.client.models.v1_volume_node_resources` module

`kubernetes.client.models.v1_volume_projection` module

`kubernetes.client.models.v1_vsphere_virtual_disk_volume_source` module

kubernetes.client.models.v1_watch_event module

kubernetes.client.models.v1_webhook_conversion module

kubernetes.client.models.v1_weighted_pod_affinity_term module

kubernetes.client.models.v1_windows_security_context_options module

kubernetes.client.models.v1alpha1_audit_annotation module

kubernetes.client.models.v1alpha1_cluster_cidr module

kubernetes.client.models.v1alpha1_cluster_cidr_list module

kubernetes.client.models.v1alpha1_cluster_cidr_spec module

kubernetes.client.models.v1alpha1_cluster_trust_bundle module

kubernetes.client.models.v1alpha1_cluster_trust_bundle_list module

kubernetes.client.models.v1alpha1_cluster_trust_bundle_spec module

kubernetes.client.models.v1alpha1_expression_warning module

kubernetes.client.models.v1alpha1_ip_address module

kubernetes.client.models.v1alpha1_ip_address_list module

kubernetes.client.models.v1alpha1_ip_address_spec module

kubernetes.client.models.v1alpha1_match_condition module

kubernetes.client.models.v1alpha1_match_resources module

kubernetes.client.models.v1alpha1_named_rule_with_operations module

kubernetes.client.models.v1alpha1_param_kind module

kubernetes.client.models.v1alpha1_param_ref module

kubernetes.client.models.v1alpha1_parent_reference module

kubernetes.client.models.v1alpha1_self_subject_review module

kubernetes.client.models.v1alpha1_self_subject_review_status module

`kubernetes.client.models.v1alpha1_server_storage_version` module

`kubernetes.client.models.v1alpha1_storage_version` module

`kubernetes.client.models.v1alpha1_storage_version_condition` module

`kubernetes.client.models.v1alpha1_storage_version_list` module

`kubernetes.client.models.v1alpha1_storage_version_status` module

`kubernetes.client.models.v1alpha1_type_checking` module

`kubernetes.client.models.v1alpha1_validating_admission_policy` module

`kubernetes.client.models.v1alpha1_validating_admission_policy_binding` module

`kubernetes.client.models.v1alpha1_validating_admission_policy_binding_list` module

`kubernetes.client.models.v1alpha1_validating_admission_policy_binding_spec` module

`kubernetes.client.models.v1alpha1_validating_admission_policy_list` module

`kubernetes.client.models.v1alpha1_validating_admission_policy_spec` module

`kubernetes.client.models.v1alpha1_validating_admission_policy_status` module

`kubernetes.client.models.v1alpha1_validation` module

`kubernetes.client.models.v1alpha2_allocation_result` module

`kubernetes.client.models.v1alpha2_pod_scheduling_context` module

`kubernetes.client.models.v1alpha2_pod_scheduling_context_list` module

`kubernetes.client.models.v1alpha2_pod_scheduling_context_spec` module

`kubernetes.client.models.v1alpha2_pod_scheduling_context_status` module

`kubernetes.client.models.v1alpha2_resource_claim` module

`kubernetes.client.models.v1alpha2_resource_claim_consumer_reference` module

`kubernetes.client.models.v1alpha2_resource_claim_list` module

`kubernetes.client.models.v1alpha2_resource_claim_parameters_reference` module

kubernetes.client.models.v1alpha2_resource_claim_scheduling_status module

kubernetes.client.models.v1alpha2_resource_claim_spec module

kubernetes.client.models.v1alpha2_resource_claim_status module

kubernetes.client.models.v1alpha2_resource_claim_template module

kubernetes.client.models.v1alpha2_resource_claim_template_list module

kubernetes.client.models.v1alpha2_resource_claim_template_spec module

kubernetes.client.models.v1alpha2_resource_class module

kubernetes.client.models.v1alpha2_resource_class_list module

kubernetes.client.models.v1alpha2_resource_class_parameters_reference module

kubernetes.client.models.v1alpha2_resource_handle module

kubernetes.client.models.v1beta1_self_subject_review module

kubernetes.client.models.v1beta1_self_subject_review_status module

kubernetes.client.models.v1beta2_flow_distinguisher_method module

kubernetes.client.models.v1beta2_flow_schema module

kubernetes.client.models.v1beta2_flow_schema_condition module

kubernetes.client.models.v1beta2_flow_schema_list module

kubernetes.client.models.v1beta2_flow_schema_spec module

kubernetes.client.models.v1beta2_flow_schema_status module

kubernetes.client.models.v1beta2_group_subject module

kubernetes.client.models.v1beta2_limit_response module

kubernetes.client.models.v1beta2_limited_priority_level_configuration module

kubernetes.client.models.v1beta2_non_resource_policy_rule module

kubernetes.client.models.v1beta2_policy_rules_with_subjects module

`kubernetes.client.models.v1beta2_priority_level_configuration` module

`kubernetes.client.models.v1beta2_priority_level_configuration_condition` module

`kubernetes.client.models.v1beta2_priority_level_configuration_list` module

`kubernetes.client.models.v1beta2_priority_level_configuration_reference` module

`kubernetes.client.models.v1beta2_priority_level_configuration_spec` module

`kubernetes.client.models.v1beta2_priority_level_configuration_status` module

`kubernetes.client.models.v1beta2_queuing_configuration` module

`kubernetes.client.models.v1beta2_resource_policy_rule` module

`kubernetes.client.models.v1beta2_service_account_subject` module

`kubernetes.client.models.v1beta2_subject` module

`kubernetes.client.models.v1beta2_user_subject` module

`kubernetes.client.models.v1beta3_flow_distinguisher_method` module

`kubernetes.client.models.v1beta3_flow_schema` module

`kubernetes.client.models.v1beta3_flow_schema_condition` module

`kubernetes.client.models.v1beta3_flow_schema_list` module

`kubernetes.client.models.v1beta3_flow_schema_spec` module

`kubernetes.client.models.v1beta3_flow_schema_status` module

`kubernetes.client.models.v1beta3_group_subject` module

`kubernetes.client.models.v1beta3_limit_response` module

`kubernetes.client.models.v1beta3_limited_priority_level_configuration` module

`kubernetes.client.models.v1beta3_non_resource_policy_rule` module

`kubernetes.client.models.v1beta3_policy_rules_with_subjects` module

`kubernetes.client.models.v1beta3_priority_level_configuration` module

`kubernetes.client.models.v1beta3_priority_level_configuration_condition` module

`kubernetes.client.models.v1beta3_priority_level_configuration_list` module

`kubernetes.client.models.v1beta3_priority_level_configuration_reference` module

`kubernetes.client.models.v1beta3_priority_level_configuration_spec` module

`kubernetes.client.models.v1beta3_priority_level_configuration_status` module

`kubernetes.client.models.v1beta3_queuing_configuration` module

`kubernetes.client.models.v1beta3_resource_policy_rule` module

`kubernetes.client.models.v1beta3_service_account_subject` module

`kubernetes.client.models.v1beta3_subject` module

`kubernetes.client.models.v1beta3_user_subject` module

`kubernetes.client.models.v2_container_resource_metric_source` module

`kubernetes.client.models.v2_container_resource_metric_status` module

`kubernetes.client.models.v2_cross_version_object_reference` module

`kubernetes.client.models.v2_external_metric_source` module

`kubernetes.client.models.v2_external_metric_status` module

`kubernetes.client.models.v2_horizontal_pod_autoscaler` module

`kubernetes.client.models.v2_horizontal_pod_autoscaler_behavior` module

`kubernetes.client.models.v2_horizontal_pod_autoscaler_condition` module

`kubernetes.client.models.v2_horizontal_pod_autoscaler_list` module

`kubernetes.client.models.v2_horizontal_pod_autoscaler_spec` module

`kubernetes.client.models.v2_horizontal_pod_autoscaler_status` module

`kubernetes.client.models.v2_hpa_scaling_policy` module

`kubernetes.client.models.v2_hpa_scaling_rules` module

`kubernetes.client.models.v2_metric_identifier` module

`kubernetes.client.models.v2_metric_spec` module

`kubernetes.client.models.v2_metric_status` module

`kubernetes.client.models.v2_metric_target` module

`kubernetes.client.models.v2_metric_value_status` module

`kubernetes.client.models.v2_object_metric_source` module

`kubernetes.client.models.v2_object_metric_status` module

`kubernetes.client.models.v2_pods_metric_source` module

`kubernetes.client.models.v2_pods_metric_status` module

`kubernetes.client.models.v2_resource_metric_source` module

`kubernetes.client.models.v2_resource_metric_status` module

`kubernetes.client.models.version_info` module

Module contents

Submodules

`kubernetes.client.api_client` module

`kubernetes.client.configuration` module

`kubernetes.client.exceptions` module

`kubernetes.client.rest` module

Module contents

`kubernetes.e2e_test` package

Submodules

`kubernetes.e2e_test.base` module

`kubernetes.e2e_test.port_server` module

`kubernetes.e2e_test.test_apps` module

`kubernetes.e2e_test.test_batch` module

`kubernetes.e2e_test.test_client` module

`kubernetes.e2e_test.test_utils` module

`kubernetes.e2e_test.test_watch` module

Module contents

`kubernetes.test` package

Submodules

`kubernetes.test.test_admissionregistration_api` module

`kubernetes.test.test_admissionregistration_v1_api` module

`kubernetes.test.test_admissionregistration_v1_service_reference` module

`kubernetes.test.test_admissionregistration_v1_webhook_client_config` module

`kubernetes.test.test_admissionregistration_v1alpha1_api` module

`kubernetes.test.test_apiextensions_api` module

`kubernetes.test.test_apiextensions_v1_api` module

`kubernetes.test.test_apiextensions_v1_service_reference` module

`kubernetes.test.test_apiextensions_v1_webhook_client_config` module

`kubernetes.test.test_apiregistration_api` module

`kubernetes.test.test_apiregistration_v1_api` module

`kubernetes.test.test_apiregistration_v1_service_reference` module

`kubernetes.test.test_apis_api` module

`kubernetes.test.test_apps_api` module

`kubernetes.test.test_apps_v1_api` module

`kubernetes.test.test_authentication_api` module

`kubernetes.test.test_authentication_v1_api` module

`kubernetes.test.test_authentication_v1_token_request` module

`kubernetes.test.test_authentication_v1alpha1_api` module

`kubernetes.test.test_authentication_v1beta1_api` module

`kubernetes.test.test_authorization_api` module

`kubernetes.test.test_authorization_v1_api` module

`kubernetes.test.test_autoscaling_api` module

`kubernetes.test.test_autoscaling_v1_api` module

`kubernetes.test.test_autoscaling_v2_api` module

`kubernetes.test.test_batch_api` module

`kubernetes.test.test_batch_v1_api` module

`kubernetes.test.test_certificates_api` module

`kubernetes.test.test_certificates_v1_api` module

`kubernetes.test.test_certificates_v1alpha1_api` module

`kubernetes.test.test_coordination_api` module

`kubernetes.test.test_coordination_v1_api` module

`kubernetes.test.test_core_api` module

`kubernetes.test.test_core_v1_api` module

`kubernetes.test.test_core_v1_endpoint_port` module

`kubernetes.test.test_core_v1_event` module

`kubernetes.test.test_core_v1_event_list` module

`kubernetes.test.test_core_v1_event_series` module

kubernetes.test.test_custom_objects_api module

kubernetes.test.test_discovery_api module

kubernetes.test.test_discovery_v1_api module

kubernetes.test.test_discovery_v1_endpoint_port module

kubernetes.test.test_events_api module

kubernetes.test.test_events_v1_api module

kubernetes.test.test_events_v1_event module

kubernetes.test.test_events_v1_event_list module

kubernetes.test.test_events_v1_event_series module

kubernetes.test.test_flowcontrol_apiserver_api module

kubernetes.test.test_flowcontrol_apiserver_v1beta2_api module

kubernetes.test.test_flowcontrol_apiserver_v1beta3_api module

kubernetes.test.test_internal_apiserver_api module

kubernetes.test.test_internal_apiserver_v1alpha1_api module

kubernetes.test.test_logs_api module

kubernetes.test.test_networking_api module

kubernetes.test.test_networking_v1_api module

kubernetes.test.test_networking_v1alpha1_api module

kubernetes.test.test_node_api module

kubernetes.test.test_node_v1_api module

kubernetes.test.test_openid_api module

kubernetes.test.test_policy_api module

kubernetes.test.test_policy_v1_api module

`kubernetes.test.test_rbac_authorization_api` module

`kubernetes.test.test_rbac_authorization_v1_api` module

`kubernetes.test.test_resource_api` module

`kubernetes.test.test_resource_v1alpha2_api` module

`kubernetes.test.test_scheduling_api` module

`kubernetes.test.test_scheduling_v1_api` module

`kubernetes.test.test_storage_api` module

`kubernetes.test.test_storage_v1_api` module

`kubernetes.test.test_storage_v1_token_request` module

`kubernetes.test.test_v1_affinity` module

`kubernetes.test.test_v1_aggregation_rule` module

`kubernetes.test.test_v1_api_group` module

`kubernetes.test.test_v1_api_group_list` module

`kubernetes.test.test_v1_api_resource` module

`kubernetes.test.test_v1_api_resource_list` module

`kubernetes.test.test_v1_api_service` module

`kubernetes.test.test_v1_api_service_condition` module

`kubernetes.test.test_v1_api_service_list` module

`kubernetes.test.test_v1_api_service_spec` module

`kubernetes.test.test_v1_api_service_status` module

`kubernetes.test.test_v1_api_versions` module

`kubernetes.test.test_v1_attached_volume` module

`kubernetes.test.test_v1_aws_elastic_block_store_volume_source` module

kubernetes.test.test_v1_azure_disk_volume_source module

kubernetes.test.test_v1_azure_file_persistent_volume_source module

kubernetes.test.test_v1_azure_file_volume_source module

kubernetes.test.test_v1_binding module

kubernetes.test.test_v1_bound_object_reference module

kubernetes.test.test_v1_capabilities module

kubernetes.test.test_v1_ceph_fs_persistent_volume_source module

kubernetes.test.test_v1_ceph_fs_volume_source module

kubernetes.test.test_v1_certificate_signing_request module

kubernetes.test.test_v1_certificate_signing_request_condition module

kubernetes.test.test_v1_certificate_signing_request_list module

kubernetes.test.test_v1_certificate_signing_request_spec module

kubernetes.test.test_v1_certificate_signing_request_status module

kubernetes.test.test_v1_cinder_persistent_volume_source module

kubernetes.test.test_v1_cinder_volume_source module

kubernetes.test.test_v1_claim_source module

kubernetes.test.test_v1_client_ip_config module

kubernetes.test.test_v1_cluster_role module

kubernetes.test.test_v1_cluster_role_binding module

kubernetes.test.test_v1_cluster_role_binding_list module

kubernetes.test.test_v1_cluster_role_list module

kubernetes.test.test_v1_component_condition module

kubernetes.test.test_v1_component_status module

`kubernetes.test.test_v1_component_status_list` module

`kubernetes.test.test_v1_condition` module

`kubernetes.test.test_v1_config_map` module

`kubernetes.test.test_v1_config_map_env_source` module

`kubernetes.test.test_v1_config_map_key_selector` module

`kubernetes.test.test_v1_config_map_list` module

`kubernetes.test.test_v1_config_map_node_config_source` module

`kubernetes.test.test_v1_config_map_projection` module

`kubernetes.test.test_v1_config_map_volume_source` module

`kubernetes.test.test_v1_container` module

`kubernetes.test.test_v1_container_image` module

`kubernetes.test.test_v1_container_port` module

`kubernetes.test.test_v1_container_resize_policy` module

`kubernetes.test.test_v1_container_state` module

`kubernetes.test.test_v1_container_state_running` module

`kubernetes.test.test_v1_container_state_terminated` module

`kubernetes.test.test_v1_container_state_waiting` module

`kubernetes.test.test_v1_container_status` module

`kubernetes.test.test_v1_controller_revision` module

`kubernetes.test.test_v1_controller_revision_list` module

`kubernetes.test.test_v1_cron_job` module

`kubernetes.test.test_v1_cron_job_list` module

`kubernetes.test.test_v1_cron_job_spec` module

kubernetes.test.test_v1_cron_job_status module

kubernetes.test.test_v1_cross_version_object_reference module

kubernetes.test.test_v1_csi_driver module

kubernetes.test.test_v1_csi_driver_list module

kubernetes.test.test_v1_csi_driver_spec module

kubernetes.test.test_v1_csi_node module

kubernetes.test.test_v1_csi_node_driver module

kubernetes.test.test_v1_csi_node_list module

kubernetes.test.test_v1_csi_node_spec module

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kubernetes.test.test_v1_csi_storage_capacity module

kubernetes.test.test_v1_csi_storage_capacity_list module

kubernetes.test.test_v1_csi_volume_source module

kubernetes.test.test_v1_custom_resource_column_definition module

kubernetes.test.test_v1_custom_resource_conversion module

kubernetes.test.test_v1_custom_resource_definition module

kubernetes.test.test_v1_custom_resource_definition_condition module

kubernetes.test.test_v1_custom_resource_definition_list module

kubernetes.test.test_v1_custom_resource_definition_names module

kubernetes.test.test_v1_custom_resource_definition_spec module

kubernetes.test.test_v1_custom_resource_definition_status module

kubernetes.test.test_v1_custom_resource_definition_version module

kubernetes.test.test_v1_custom_resource_subresource_scale module

`kubernetes.test.test_v1_custom_resource_subresources` module

`kubernetes.test.test_v1_custom_resource_validation` module

`kubernetes.test.test_v1_daemon_endpoint` module

`kubernetes.test.test_v1_daemon_set` module

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`kubernetes.test.test_v1_daemon_set_spec` module

`kubernetes.test.test_v1_daemon_set_status` module

`kubernetes.test.test_v1_daemon_set_update_strategy` module

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`kubernetes.test.test_v1_deployment_list` module

`kubernetes.test.test_v1_deployment_spec` module

`kubernetes.test.test_v1_deployment_status` module

`kubernetes.test.test_v1_deployment_strategy` module

`kubernetes.test.test_v1_downward_api_projection` module

`kubernetes.test.test_v1_downward_api_volume_file` module

`kubernetes.test.test_v1_downward_api_volume_source` module

`kubernetes.test.test_v1_empty_dir_volume_source` module

`kubernetes.test.test_v1_endpoint` module

`kubernetes.test.test_v1_endpoint_address` module

`kubernetes.test.test_v1_endpoint_conditions` module

kubernetes.test.test_v1_endpoint_hints module

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kubernetes.test.test_v1_endpoint_slice_list module

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kubernetes.test.test_v1_endpoints_list module

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kubernetes.test.test_v1_env_var_source module

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kubernetes.test.test_v1_ephemeral_volume_source module

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kubernetes.test.test_v1_host_alias module

kubernetes.test.test_v1_host_path_volume_source module

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kubernetes.test.test_v1_http_ingress_rule_value module

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kubernetes.test.test_v1_ingress_class_spec module

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`kubernetes.test.test_v1_ingress_status` module

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`kubernetes.test.test_v1_iscsi_volume_source` module

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`kubernetes.test.test_v1_job_spec` module

`kubernetes.test.test_v1_job_status` module

`kubernetes.test.test_v1_job_template_spec` module

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`kubernetes.test.test_v1_label_selector_requirement` module

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`kubernetes.test.test_v1_lease_list` module

`kubernetes.test.test_v1_lease_spec` module

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`kubernetes.test.test_v1_lifecycle_handler` module

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`kubernetes.test.test_v1_limit_range_list` module

`kubernetes.test.test_v1_limit_range_spec` module

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`kubernetes.test.test_v1_load_balancer_status` module

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`kubernetes.test.test_v1_local_subject_access_review` module

`kubernetes.test.test_v1_local_volume_source` module

`kubernetes.test.test_v1_managed_fields_entry` module

`kubernetes.test.test_v1_match_condition` module

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`kubernetes.test.test_v1_mutating_webhook_configuration` module

`kubernetes.test.test_v1_mutating_webhook_configuration_list` module

`kubernetes.test.test_v1_namespace` module

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`kubernetes.test.test_v1_namespace_list` module

`kubernetes.test.test_v1_namespace_spec` module

`kubernetes.test.test_v1_namespace_status` module

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`kubernetes.test.test_v1_network_policy_ingress_rule` module

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kubernetes.test.test_v1_network_policy_peer module

kubernetes.test.test_v1_network_policy_port module

kubernetes.test.test_v1_network_policy_spec module

kubernetes.test.test_v1_network_policy_status module

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kubernetes.test.test_v1_node_affinity module

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kubernetes.test.test_v1_node_config_status module

kubernetes.test.test_v1_node_daemon_endpoints module

kubernetes.test.test_v1_node_list module

kubernetes.test.test_v1_node_selector module

kubernetes.test.test_v1_node_selector_requirement module

kubernetes.test.test_v1_node_selector_term module

kubernetes.test.test_v1_node_spec module

kubernetes.test.test_v1_node_status module

kubernetes.test.test_v1_node_system_info module

kubernetes.test.test_v1_non_resource_attributes module

kubernetes.test.test_v1_non_resource_rule module

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`kubernetes.test.test_v1_overhead` module

`kubernetes.test.test_v1_owner_reference` module

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`kubernetes.test.test_v1_persistent_volume_claim` module

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`kubernetes.test.test_v1_persistent_volume_claim_list` module

`kubernetes.test.test_v1_persistent_volume_claim_spec` module

`kubernetes.test.test_v1_persistent_volume_claim_status` module

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`kubernetes.test.test_v1_persistent_volume_claim_volume_source` module

`kubernetes.test.test_v1_persistent_volume_list` module

`kubernetes.test.test_v1_persistent_volume_spec` module

`kubernetes.test.test_v1_persistent_volume_status` module

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`kubernetes.test.test_v1_pod` module

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`kubernetes.test.test_v1_pod_anti_affinity` module

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`kubernetes.test.test_v1_pod_disruption_budget_list` module

kubernetes.test.test_v1_pod_disruption_budget_spec module

kubernetes.test.test_v1_pod_disruption_budget_status module

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kubernetes.test.test_v1_pod_dns_config_option module

kubernetes.test.test_v1_pod_failure_policy module

kubernetes.test.test_v1_pod_failure_policy_on_exit_codes_requirement module

kubernetes.test.test_v1_pod_failure_policy_on_pod_conditions_pattern module

kubernetes.test.test_v1_pod_failure_policy_rule module

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kubernetes.test.test_v1_pod_os module

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kubernetes.test.test_v1_pod_scheduling_gate module

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kubernetes.test.test_v1_pod_template_list module

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`kubernetes.test.test_v1_priority_class_list` module

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`kubernetes.test.test_v1_rbd_volume_source` module

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`kubernetes.test.test_v1_replication_controller_spec` module

`kubernetes.test.test_v1_replication_controller_status` module

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kubernetes.test.test_v1_scale_status module

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`kubernetes.test.test_v1_secret_list` module

`kubernetes.test.test_v1_secret_projection` module

`kubernetes.test.test_v1_secret_reference` module

`kubernetes.test.test_v1_secret_volume_source` module

`kubernetes.test.test_v1_security_context` module

`kubernetes.test.test_v1_self_subject_access_review` module

`kubernetes.test.test_v1_self_subject_access_review_spec` module

`kubernetes.test.test_v1_self_subject_rules_review` module

`kubernetes.test.test_v1_self_subject_rules_review_spec` module

`kubernetes.test.test_v1_server_address_by_client_cidr` module

`kubernetes.test.test_v1_service` module

`kubernetes.test.test_v1_service_account` module

`kubernetes.test.test_v1_service_account_list` module

`kubernetes.test.test_v1_service_account_token_projection` module

`kubernetes.test.test_v1_service_backend_port` module

`kubernetes.test.test_v1_service_list` module

`kubernetes.test.test_v1_service_port` module

`kubernetes.test.test_v1_service_spec` module

`kubernetes.test.test_v1_service_status` module

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`kubernetes.test.test_v1_stateful_set_list` module

`kubernetes.test.test_v1_stateful_set_ordinals` module

`kubernetes.test.test_v1_stateful_set_persistent_volume_claim_retention_policy` module

`kubernetes.test.test_v1_stateful_set_spec` module

`kubernetes.test.test_v1_stateful_set_status` module

`kubernetes.test.test_v1_stateful_set_update_strategy` module

`kubernetes.test.test_v1_status` module

`kubernetes.test.test_v1_status_cause` module

`kubernetes.test.test_v1_status_details` module

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`kubernetes.test.test_v1_storage_class_list` module

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`kubernetes.test.test_v1_storage_os_volume_source` module

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`kubernetes.test.test_v1_subject_access_review` module

`kubernetes.test.test_v1_subject_access_review_spec` module

`kubernetes.test.test_v1_subject_access_review_status` module

`kubernetes.test.test_v1_subject_rules_review_status` module

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`kubernetes.test.test_v1_token_request_status` module

`kubernetes.test.test_v1_token_review` module

`kubernetes.test.test_v1_token_review_spec` module

`kubernetes.test.test_v1_token_review_status` module

`kubernetes.test.test_v1_toleration` module

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`kubernetes.test.test_v1_topology_selector_term` module

`kubernetes.test.test_v1_topology_spread_constraint` module

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`kubernetes.test.test_v1_typed_object_reference` module

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`kubernetes.test.test_v1_validating_webhook_configuration` module

`kubernetes.test.test_v1_validating_webhook_configuration_list` module

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kubernetes.test.test_v1alpha1_match_resources module

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kubernetes.test.test_v1alpha1_param_ref module

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kubernetes.test.test_v1alpha1_self_subject_review_status module

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kubernetes.test.test_v1alpha1_storage_version_status module

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kubernetes.test.test_v1alpha2_pod_scheduling_context_spec module

kubernetes.test.test_v1alpha2_pod_scheduling_context_status module

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kubernetes.test.test_v1alpha2_resource_claim_list module

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kubernetes.test.test_v1alpha2_resource_claim_status module

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kubernetes.test.test_v1alpha2_resource_handle module

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kubernetes.test.test_v1beta1_self_subject_review_status module

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`kubernetes.test.test_v1beta2_flow_schema` module

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`kubernetes.test.test_v1beta2_flow_schema_list` module

`kubernetes.test.test_v1beta2_flow_schema_spec` module

`kubernetes.test.test_v1beta2_flow_schema_status` module

`kubernetes.test.test_v1beta2_group_subject` module

`kubernetes.test.test_v1beta2_limit_response` module

`kubernetes.test.test_v1beta2_limited_priority_level_configuration` module

`kubernetes.test.test_v1beta2_non_resource_policy_rule` module

`kubernetes.test.test_v1beta2_policy_rules_with_subjects` module

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`kubernetes.test.test_v1beta2_priority_level_configuration_condition` module

`kubernetes.test.test_v1beta2_priority_level_configuration_list` module

`kubernetes.test.test_v1beta2_priority_level_configuration_reference` module

`kubernetes.test.test_v1beta2_priority_level_configuration_spec` module

`kubernetes.test.test_v1beta2_priority_level_configuration_status` module

`kubernetes.test.test_v1beta2_queuing_configuration` module

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`kubernetes.test.test_v1beta2_subject` module

`kubernetes.test.test_v1beta2_user_subject` module

`kubernetes.test.test_v1beta3_flow_distinguisher_method` module

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kubernetes.test.test_v1beta3_flow_schema_condition module

kubernetes.test.test_v1beta3_flow_schema_list module

kubernetes.test.test_v1beta3_flow_schema_spec module

kubernetes.test.test_v1beta3_flow_schema_status module

kubernetes.test.test_v1beta3_group_subject module

kubernetes.test.test_v1beta3_limit_response module

kubernetes.test.test_v1beta3_limited_priority_level_configuration module

kubernetes.test.test_v1beta3_non_resource_policy_rule module

kubernetes.test.test_v1beta3_policy_rules_with_subjects module

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kubernetes.test.test_v1beta3_priority_level_configuration_condition module

kubernetes.test.test_v1beta3_priority_level_configuration_list module

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kubernetes.test.test_v1beta3_priority_level_configuration_spec module

kubernetes.test.test_v1beta3_priority_level_configuration_status module

kubernetes.test.test_v1beta3_queuing_configuration module

kubernetes.test.test_v1beta3_resource_policy_rule module

kubernetes.test.test_v1beta3_service_account_subject module

kubernetes.test.test_v1beta3_subject module

kubernetes.test.test_v1beta3_user_subject module

kubernetes.test.test_v2_container_resource_metric_source module

kubernetes.test.test_v2_container_resource_metric_status module

kubernetes.test.test_v2_cross_version_object_reference module

`kubernetes.test.test_v2_external_metric_source` module

`kubernetes.test.test_v2_external_metric_status` module

`kubernetes.test.test_v2_horizontal_pod_autoscaler` module

`kubernetes.test.test_v2_horizontal_pod_autoscaler_behavior` module

`kubernetes.test.test_v2_horizontal_pod_autoscaler_condition` module

`kubernetes.test.test_v2_horizontal_pod_autoscaler_list` module

`kubernetes.test.test_v2_horizontal_pod_autoscaler_spec` module

`kubernetes.test.test_v2_horizontal_pod_autoscaler_status` module

`kubernetes.test.test_v2_hpa_scaling_policy` module

`kubernetes.test.test_v2_hpa_scaling_rules` module

`kubernetes.test.test_v2_metric_identifier` module

`kubernetes.test.test_v2_metric_spec` module

`kubernetes.test.test_v2_metric_status` module

`kubernetes.test.test_v2_metric_target` module

`kubernetes.test.test_v2_metric_value_status` module

`kubernetes.test.test_v2_object_metric_source` module

`kubernetes.test.test_v2_object_metric_status` module

`kubernetes.test.test_v2_pods_metric_source` module

`kubernetes.test.test_v2_pods_metric_status` module

`kubernetes.test.test_v2_resource_metric_source` module

`kubernetes.test.test_v2_resource_metric_status` module

`kubernetes.test.test_version_api` module

`kubernetes.test.test_version_info` module

kubernetes.test.test_well_known_api module

Module contents

kubernetes.utils package

Submodules

kubernetes.utils.create_from_yaml module

kubernetes.utils.quantity module

Module contents

4.1.2 Module contents

Contributing Guidelines

5.1 How to become a contributor and submit your own code

5.1.1 Contributor License Agreements

We'd love to accept your patches! Before we can take them, we have to jump a couple of legal hurdles.

Please fill out either the individual or corporate Contributor License Agreement (CLA).

- If you are an individual writing original source code and you're sure you own the intellectual property, then you'll need to sign an [individual CLA](#).
- If you work for a company that wants to allow you to contribute your work, then you'll need to sign a [corporate CLA](#).

Follow either of the two links above to access the appropriate CLA and instructions for how to sign and return it. Once we receive it, we'll be able to accept your pull requests.

5.2 Composition of This Repository and Where/How to Contribute

The Kubernetes Python client contains mostly files that are generated by the OpenAPI generator from [this OpenAPI spec](#). In the repo there is also the utility part, which allows developers to create their own kubernetes clients ([kubernetes/base](#)). The base repo was once a submodule of the main repo, but is now integrated into the main repo. The archived code is available ([here](#)).

5.2.1 Where to Submit Your Patch

The following folders are automatically generated. You will need to submit a patch to the upstream Kubernetes repo [kubernetes](#) or the OpenAPI generator repo [openapi-generator](#).

- [kubernetes/client](#)

- [kubernetes/test](#)
- [kubernetes/docs](#).

In this main repo, the following folders contain developer written codes and the patches should be submitted as pull requests here:

- [kubernetes/base](#)
- [kubernetes/config](#)
- [kubernetes/dynamic](#)
- [kubernetes/e2e_test](#)
- [kubernetes/leaderelection](#)
- [kubernetes/stream](#)
- [kubernetes/utils](#)
- [kubernetes/watch](#)
- [examples](#)
- [scripts](#).

5.2.2 Contributing A Patch

1. Submit an issue describing your proposed change to the repo in question.
2. The [repo owners](#) will respond to your issue promptly.
3. If your proposed change is accepted, and you haven't already done so, sign a Contributor License Agreement (see details above).
4. Fork the desired repo, develop and test your code changes. Add a test if possible.
5. Submit a pull request.

5.2.3 Adding Dependencies

If your patch depends on new packages, add those packages to [requirements.txt](#) and/or [setup.py](#). If these package are for testing only, add those to [test-requirements.txt](#).

5.2.4 Commits

Generally we would like to see one commit per pull request. However, if the pull request is reasonably large, the PR can be divided into several commits that make logical sense. The commit message should be clear and indicative of the aim of the fix. Sometimes multiple commits in a single pull request is acceptable if it meets the [Kubernetes pull request guidelines](#).

If you have several commits in a pull request and have been asked to squash your commits, please use `git reset --soft HEAD~N_COMMITS` and commit again to make your PR a single commit.

5.2.5 Windows Developers

The symbolic links contained in this repo do not work for Windows operating systems. If you are a Windows developer, please run the `fix` inside the `scripts` folder or manually copy the content of the `kubernetes/base` folder into the `kubernetes` folder.

5.2.6 Writing Tests

In addition to running the fix yourself and telling us that your fix works, you can demonstrate that your fix really works by using unit tests and end to end tests. Tests are mainly located in three places. You should put your tests into the places that they fit in.

1. **Generated tests** by OpenAPI generator: these tests should pass and do not require modification.
2. **End to end tests**: these are tests that can only be verified with a live kubernetes server.
3. Base repo tests in the `base` repo, in which the test files are named `test_*.py`: These tests use the package `Mock` and confirms the functionality of the base repo files.

5.2.7 Coding Style

We use an automatic coding style checker by using the `diff` of the `autopep8` output and your code file. To make sure that your code passes the coding style checker, run `autopep8 --in-place --aggressive --aggressive your_code.py` before committing and submitting.

5.3 Running Tests Locally

If you write a new end to end (e2e) test, or change behaviors that affect e2e tests, you should set up a local cluster and test them on your machine. The following steps will help you run the unit tests.

1. Acquire a local cluster. `Minikube` is a good choice for Windows and Linux developers. Alternatively if you are on Linux, you can clone the `kubernetes` repo and run `install-etcd.sh` and then `local-up-cluster.sh` to get a local cluster up and running.
2. Run the unit tests. In the root directory of the main repo, run `python -m unittest discover`.
3. Check the test results and make corresponding fixes.

CHAPTER 6

Indices and tables

- `genindex`
- `modindex`
- `search`