**API Server access**

Kubernetes API Server access by example

Sometimes it’s useful or necessary to directly [access the Kubernetes API server](https://kubernetes.io/docs/tasks/access-kubernetes-api/http-proxy-access-api/), for exploratory or testing purposes.

In order to do this, one option is to proxy the API to your local environment, using:

$ kubectl proxy --port=8080

Starting to serve on 127.0.0.1:8080

Now you can query the API (in a separate terminal session) like so:

$ curl http://localhost:8080/api/v1

{

"kind": "APIResourceList",

"groupVersion": "v1",

"resources": [

{

...

{

"name": "services/status",

"singularName": "",

"namespaced": true,

"kind": "Service",

"verbs": [

"get",

"patch",

"update"

]

}

]

}

Alternatively, without proxying, you can use kubectl directly as follows to achieve the same:

$ kubectl get --raw=/api/v1

Further, if you want to explore the supported API versions and/or resources, you can use the following commands:

$ kubectl api-versions

admissionregistration.k8s.io/v1beta1

...

v1

$ kubectl api-resources

NAME SHORTNAMES APIGROUP NAMESPACED KIND

bindings true Binding

...

storageclasses sc storage.k8s.io