

# API Groups

```
curl https://kube-master:6443/version
```

```
{
  "major": "1",
  "minor": "13",
  "gitVersion": "v1.13.0",
  "gitCommit": "ddf47ac13c1a9483ea035a79cd7c10005ff21a6d",
  "gitTreeState": "clean",
  "buildDate": "2018-12-03T20:56:12Z",
  "goVersion": "go1.11.2",
  "compiler": "gc",
  "platform": "linux/amd64"
}
```

```
curl https://kube-master:6443/api/v1/pods
```

```
{
  "kind": "PodList",
  "apiVersion": "v1",
  "metadata": {
    "selfLink": "/api/v1/pods",
    "resourceVersion": "153068"
  },
  "items": [
    {
      "metadata": {
        "name": "nginx-5c7588df-ghsbd",
        "generateName": "nginx-5c7588df-",
        "namespace": "default",
        "creationTimestamp": "2019-03-20T10:57:48Z",
        "labels": {
          "app": "nginx",
          "pod-template-hash": "5c7588df"
        },
        "ownerReferences": [
          {
            "apiVersion": "apps/v1",
            "kind": "ReplicaSet",
            "name": "nginx-5c7588df",
            "uid": "398ce179-4af9-11e9-beb6-020d3114c7a7",
            "controller": true,
            "blockOwnerDeletion": true
          }
        ]
      }
    }
  ]
}
```

Our focus in this lecture is about these API pods

/metrics

/healthz

/version

/api

/apis

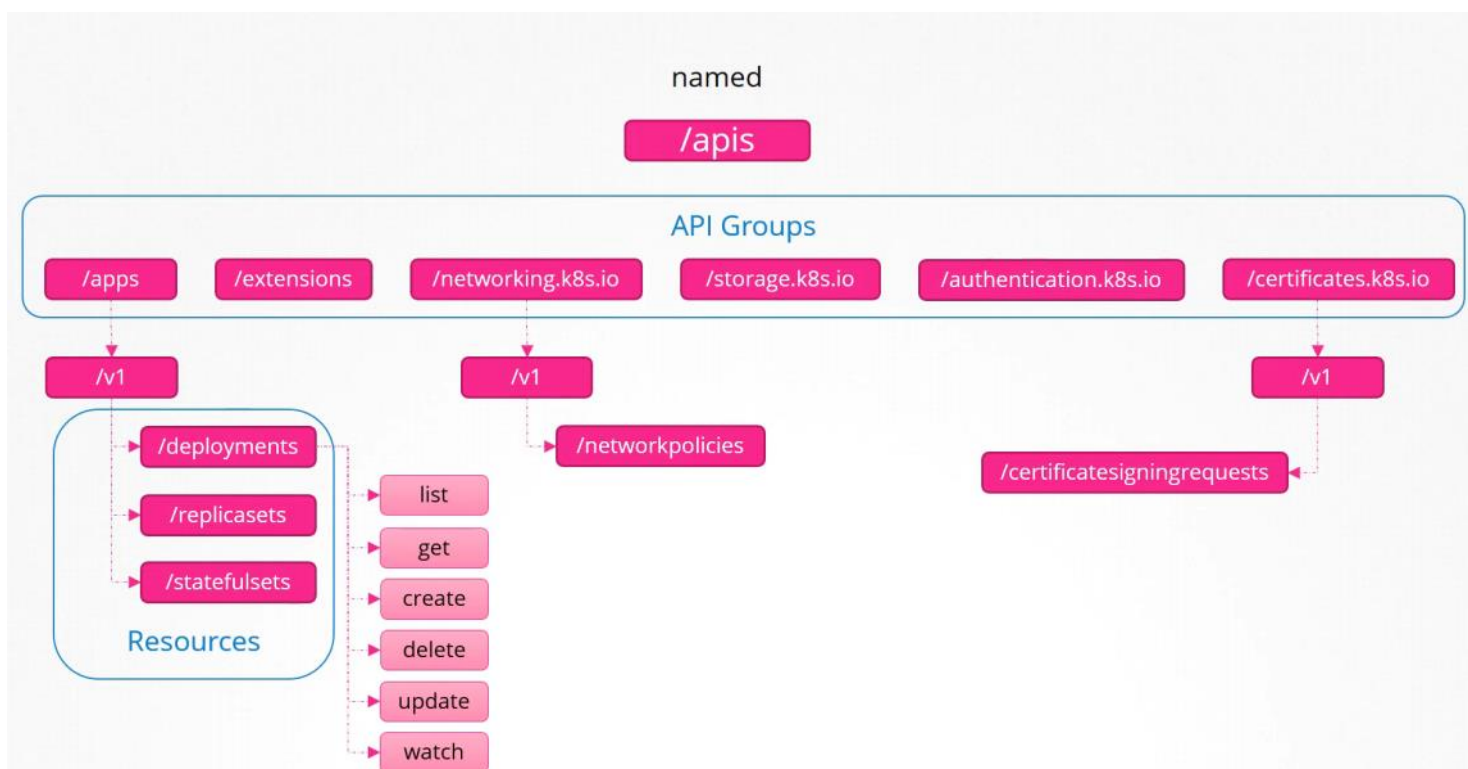
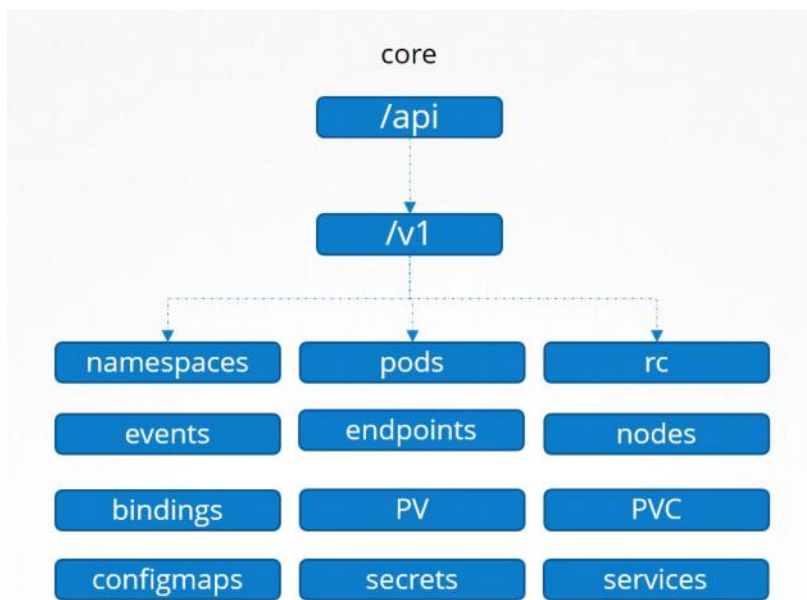
/logs

core

named

/api

/apis



```
curl http://localhost:6443 -k
```

```
{
  "paths": [
    "/api",
    "/api/v1",
    "/apis",
    "/apis/",
    "/healthz",
    "/logs",
    "/metrics",
    "/openapi/v2",
    "/swagger-2.0.0.json",
```

```
curl http://localhost:6443/apis -k | grep "name"
```

```
"name": "extensions",
"name": "apps",
"name": "events.k8s.io",
"name": "authentication.k8s.io",
"name": "authorization.k8s.io",
"name": "autoscaling",
"name": "batch",
"name": "certificates.k8s.io",
"name": "networking.k8s.io",
"name": "policy",
"name": "rbac.authorization.k8s.io",
"name": "storage.k8s.io",
"name": "admissionregistration.k8s.io",
"name": "apiextensions.k8s.io",
"name": "scheduling.k8s.io",
```



Kube ApiServer



```
curl http://localhost:6443 -k
```

```
{
  "kind": "Status",
  "apiVersion": "v1",
  "metadata": {

  },
  "status": "Failure",
  "message": "Forbidden: User \"system:anonymous\" cannot get path \"/\"",
  "reason": "Forbidden",
  "details": {

  },
  "code": 403
}
```

```
curl http://localhost:6443 -k
```

```
--key admin.key
--cert admin.crt
--cacert ca.crt
```

```
{
  "paths": [
    "/api",
    "/api/v1",
    "/apis",
    "/apis/",
    "/healthz",
    "/logs",
    "/metrics"
```

Gdemy

# kubectl proxy



```
> kubectl proxy
```

```
Starting to serve on 127.0.0.1:8001
```

```
> curl http://localhost:8001 -k
```

```
{
  "paths": [
    "/api",
    "/api/v1",
    "/apis",
    "/apis/",
    "/healthz",
    "/logs",
    "/metrics",
    "/openapi/v2",
    "/swagger-2.0.0.json",
```

Kube proxy



Kubectl proxy