# Available API

1. Get list of available API:

$ kubectl api-versions  
$ kubectl api-resources

🤔 How many resources in the core API (v1) out of total?

1. Get information about Pod.apiVersion field of a specification:

$ kubectl explain Pod.apiVersion

🤔 Does your terminal support hyperlinks? Are they clickable?

## Solution

1. Get list of available API:

$ kubectl api-versions  
admissionregistration.k8s.io/v1  
admissionregistration.k8s.io/v1beta1  
apiextensions.k8s.io/v1  
apiextensions.k8s.io/v1beta1  
apiregistration.k8s.io/v1  
apiregistration.k8s.io/v1beta1  
apps/v1  
authentication.k8s.io/v1  
authentication.k8s.io/v1beta1  
authorization.k8s.io/v1  
authorization.k8s.io/v1beta1  
autoscaling/v1  
autoscaling/v2beta1  
autoscaling/v2beta2  
batch/v1  
batch/v1beta1  
certificates.k8s.io/v1  
certificates.k8s.io/v1beta1  
coordination.k8s.io/v1  
coordination.k8s.io/v1beta1  
discovery.k8s.io/v1beta1  
events.k8s.io/v1  
events.k8s.io/v1beta1  
extensions/v1beta1  
flowcontrol.apiserver.k8s.io/v1beta1  
metrics.k8s.io/v1beta1  
networking.k8s.io/v1  
networking.k8s.io/v1beta1  
node.k8s.io/v1  
node.k8s.io/v1beta1  
policy/v1beta1  
rbac.authorization.k8s.io/v1  
rbac.authorization.k8s.io/v1beta1  
scheduling.k8s.io/v1  
scheduling.k8s.io/v1beta1  
storage.k8s.io/v1  
storage.k8s.io/v1beta1  
v1  
  
$ kubectl api-resources  
NAME SHORTNAMES APIVERSION NAMESPACED KIND  
bindings v1 true Binding  
componentstatuses cs v1 false ComponentStatus  
configmaps cm v1 true ConfigMap  
endpoints ep v1 true Endpoints  
events ev v1 true Event  
limitranges limits v1 true LimitRange  
namespaces ns v1 false Namespace  
nodes no v1 false Node  
persistentvolumeclaims pvc v1 true PersistentVolumeClaim  
persistentvolumes pv v1 false PersistentVolume  
pods po v1 true Pod  
podtemplates v1 true PodTemplate  
replicationcontrollers rc v1 true ReplicationController  
resourcequotas quota v1 true ResourceQuota  
secrets v1 true Secret  
serviceaccounts sa v1 true ServiceAccount  
services svc v1 true Service  
mutatingwebhookconfigurations admissionregistration.k8s.io/v1 false MutatingWebhookConfiguration  
validatingwebhookconfigurations admissionregistration.k8s.io/v1 false ValidatingWebhookConfiguration  
customresourcedefinitions crd,crds apiextensions.k8s.io/v1 false CustomResourceDefinition  
apiservices apiregistration.k8s.io/v1 false APIService  
controllerrevisions apps/v1 true ControllerRevision  
daemonsets ds apps/v1 true DaemonSet  
deployments deploy apps/v1 true Deployment  
replicasets rs apps/v1 true ReplicaSet  
statefulsets sts apps/v1 true StatefulSet  
tokenreviews authentication.k8s.io/v1 false TokenReview  
localsubjectaccessreviews authorization.k8s.io/v1 true LocalSubjectAccessReview  
selfsubjectaccessreviews authorization.k8s.io/v1 false SelfSubjectAccessReview  
selfsubjectrulesreviews authorization.k8s.io/v1 false SelfSubjectRulesReview  
subjectaccessreviews authorization.k8s.io/v1 false SubjectAccessReview  
horizontalpodautoscalers hpa autoscaling/v1 true HorizontalPodAutoscaler  
cronjobs cj batch/v1beta1 true CronJob  
jobs batch/v1 true Job  
certificatesigningrequests csr certificates.k8s.io/v1 false CertificateSigningRequest  
leases coordination.k8s.io/v1 true Lease  
endpointslices discovery.k8s.io/v1beta1 true EndpointSlice  
events ev events.k8s.io/v1 true Event  
ingresses ing extensions/v1beta1 true Ingress  
flowschemas flowcontrol.apiserver.k8s.io/v1beta1 false FlowSchema  
prioritylevelconfigurations flowcontrol.apiserver.k8s.io/v1beta1 false PriorityLevelConfiguration  
nodes metrics.k8s.io/v1beta1 false NodeMetrics  
pods metrics.k8s.io/v1beta1 true PodMetrics  
ingressclasses networking.k8s.io/v1 false IngressClass  
ingresses ing networking.k8s.io/v1 true Ingress  
networkpolicies netpol networking.k8s.io/v1 true NetworkPolicy  
runtimeclasses node.k8s.io/v1 false RuntimeClass  
poddisruptionbudgets pdb policy/v1beta1 true PodDisruptionBudget  
podsecuritypolicies psp policy/v1beta1 false PodSecurityPolicy  
clusterrolebindings rbac.authorization.k8s.io/v1 false ClusterRoleBinding  
clusterroles rbac.authorization.k8s.io/v1 false ClusterRole  
rolebindings rbac.authorization.k8s.io/v1 true RoleBinding  
roles rbac.authorization.k8s.io/v1 true Role  
priorityclasses pc scheduling.k8s.io/v1 false PriorityClass  
csidrivers storage.k8s.io/v1 false CSIDriver  
csinodes storage.k8s.io/v1 false CSINode  
storageclasses sc storage.k8s.io/v1 false StorageClass  
volumeattachments storage.k8s.io/v1 false VolumeAttachment

🤔 How many resources in the core API (v1) out of total?

$ kubectl api-resources | grep -E ' v1' | wc -l  
17

1. Get information about Pod.apiVersion field of a specification:

$ kubectl explain Pod.apiVersion  
KIND: Pod  
VERSION: v1  
  
FIELD: apiVersion <string>  
  
DESCRIPTION:  
 APIVersion defines the versioned schema of this representation of an  
 object. Servers should convert recognized schemas to the latest internal  
 value, and may reject unrecognized values. More info:  
 https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources

🤔 Does your terminal support hyperlinks? Are they clickable?

Yep.