CKAD : Complete Certification Guide

Kubernetes APIs
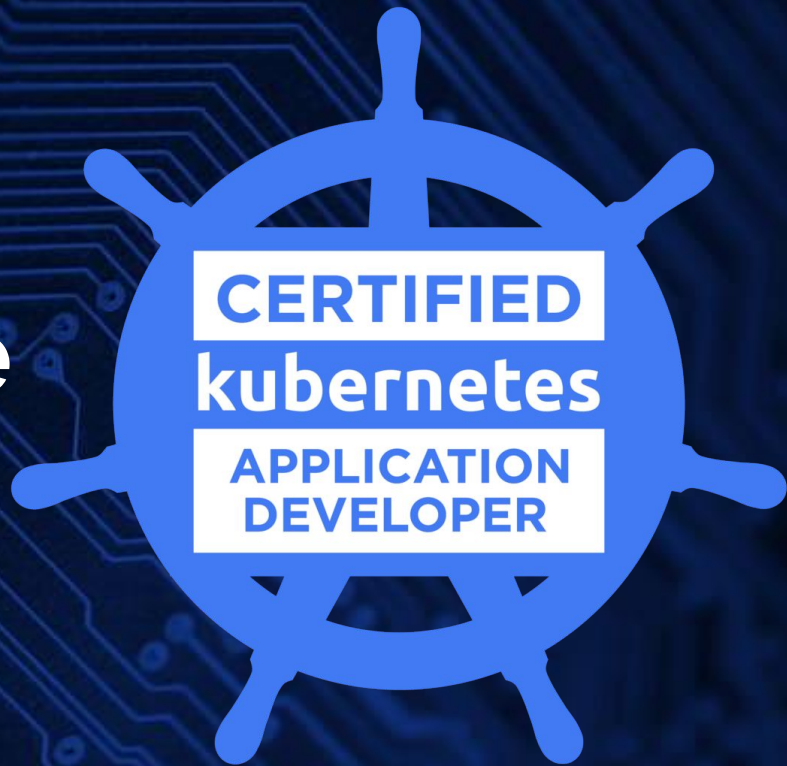
CKAD : Certification
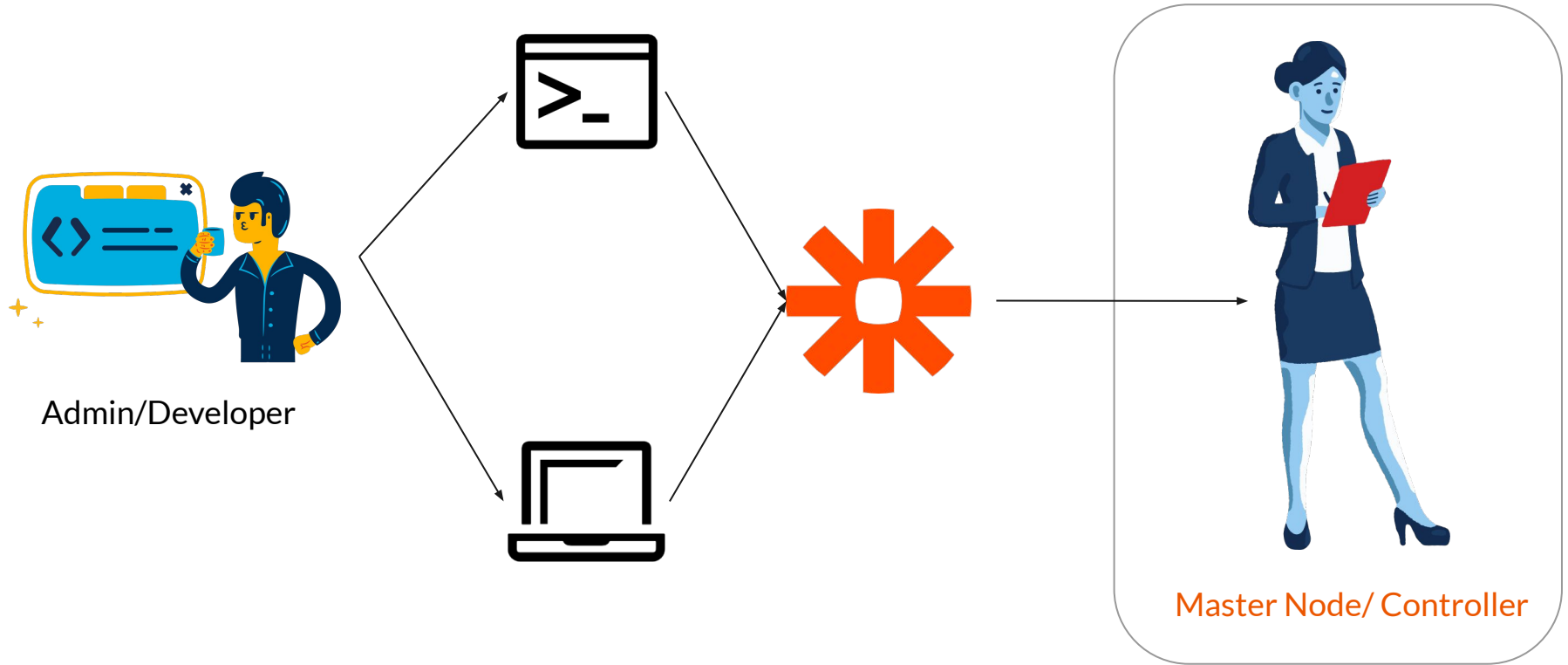
Admin/Developer

Master Node/ Controller

YAML

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: nginx
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    ports:
    - containerPort: 80
```

JSON

```json
{
  "apiVersion": "v1",
  "kind": "Pod",
  "metadata": {
    "name": "nginx"
  },
  "spec": {
    "containers": [
      {
        "name": "nginx",
        "image": "nginx:1.14.2",
        "ports": [
          {
            "containerPort": 80
          }
        ]
      }
    ]
  }
}
```

POD YAML

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    ports:
    - containerPort: 80
```

```
apiVersion: API_GROUP/API_VERSION


apiVersion: v1
apiVersion: apps/v1
apiVersion: rbac.authorization.k8s.io/v1
apiVersion: autoscaling/v1
apiVersion: batch/v1
apiVersion: extensions/v1beta1
apiVersion: batch/v1
```

POD YAML

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```

```yaml
kind: Kubernetes Objects

pods
service
secret
persistentVolume
configMap
Job
cronjob
namespace
role
statefulSet … etc
```

POD YAML

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POD YAML

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```

KIND vs API-Version

Kind	API Version
Pod	v1
ReplicationController	v1
Service	v1
Secret	v1
ComponentStatus	v1
NameSpace	v1
ConfigMap	v1
PersistentVolume	v1
PersistentVolumeClaim	v1
ServiceAccount	v1

Kind	API Version
ReplicaSet	apps/v1
Deployment	apps/v1
DaemonSet	apps/v1
StatefulSet	apps/v1

Kind	API Version
Job	batch/v1

Kind	API Version
CronJob	batch/v1beta1

KIND vs API-Version

Kind	API Version
Role	rbac.authorization.k8s.io/v1
RoleBinding	rbac.authorization.k8s.io/v1
ClusterRole	rbac.authorization.k8s.io/v1
ClusterRoleBinding	rbac.authorization.k8s.io/v1

CKAD : Certification

ALPHA → BETA → STABLE

v1alpha1   v1beta1   v1

Thank You...

Don't be the Same! Be Better!!!