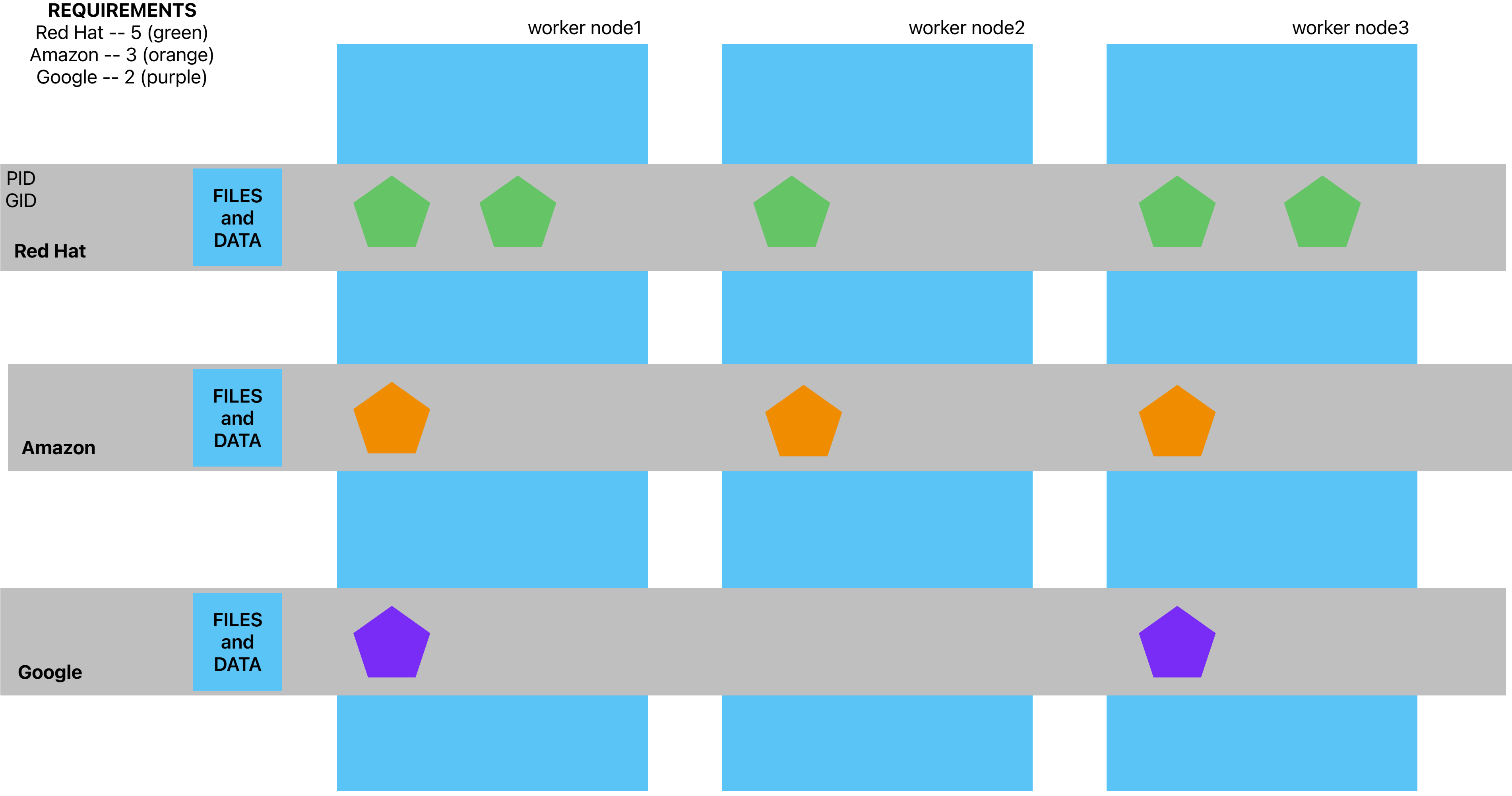


OpenShift Operators

Operators are a method of packaging, deploying and managing a Kubernetes Application.

Kubernetes Namespace  
Red Hat OpenShift Project



Types of Users

Regular  
System  
Service Account

Important Resources of OpenShift

- Pods (pod)
- Services (svc)
- Replica Set (rs)
- Replication Controller (rc)
- Persistent Volume (pv)
- Persistent Volume Claims (pvc)
- ConfigMaps (cm)
- Secrets
- Deployments (deploy)
- DeploymentConfig (dc)
- BuildConfig (bc)
- Routes

YAML

Yet Another Markup Language

KEY: VALUE

fruit: apple  
sport: football

LIST

Fruit  
- apple  
- banana  
- mango

Fruit[0] == apple  
Fruit [1] == banana  
Fruit[2] == mango

DICTIONARY

Person:  
Name: ABC  
Age: 31  
Hometown: XYZ

Person.Name == ABC  
Person.Age == 31  
Person.Hometown == XYZ

Dictionary inside a List

Fruit:

- Apple:  
calories: 105 kcal  
fat: 3.2g  
protein: 5g

- Banana:  
calories: 132 kcal  
fat: 2.2g

- Mango:  
protein: 2.2g

The Fat of Banana  
Fruit[1].fat == 2.2g

List inside a Dictionary

Person:  
Name: ABC  
Age: 31  
Hometown: XYZ  
Hobbies:  
- Football  
- Music  
- Movies

Want the Value as Music  
Person.Hobbies[2] == Movies  
Person[3].Hobbies.Music == ERROR  
Person.Hobbies[1] == Music

HISTORY FOR THE DAY

```
1 oc login https://api.ocp4.example.com:6443
2 oc login -u admin -p redhatocp https://api.ocp4.example.com:6443
3 oc whoami --show-console
4 clear
5 oc login -u admin -p redhatocp https://api.ocp4.example.com:6443
6 oc whoami --show-console
7 clear
8 cd /
9 ls
10 cd bin/
11 ls
12 ls oc
13 ll oc
14 cd ..
15 ls
16 cd sbin
17 ll oc
18 sudo ll oc
19 sudo ls -l oc
20 cd ..
21 ls
22 cd bin
23 ls | grep "oc"
24 ls | grep "kubectl"
25 clear
26 cd
27 clear
28 which oc
29 which kubectl
30 ls -li /usr/local/bin/oc
31 ls -li /usr/local/bin/kubectl
32 oc whoami --show-console
33 kubectl explain pod
34 oc explain pod
35 clear
36 oc projects
37 oc project openshift-etcd
38 oc projects
39 oc login -u developer -p developer https://api.ocp4.example.com:6443
40 oc projects
41 oc login -u admin -p redhatocp https://api.ocp4.example.com:6443
42 oc projects
43 oc new-project training
44 oc projects
45 oc cluster-info
46 oc api-resources
47 oc api-resources | less
48 oc get clusteroperators
49 oc get pods
50 oc projects
51 oc project openshift-etcd
52 oc get pods
53 oc get all
54 oc get service
55 oc get deployments
56 oc get pods
57 oc get pods -o wide
58 oc get pods
59 oc describe pod etcd-master01
60 clear
61 oc status
62 oc project training
63 oc create pod
64 oc create pod --help
65 oc delete
66 clear
67 oc login -u admin -p redhatocp https://api.ocp4.example.com:6443
68 oc whoami --show-console
69 oc login --token=sha256-wPTr0W57_Uvz14CXxh4vJRM77VocDk0dgukS1mG13vk --server=https://api.ocp4.example.com:6443
70 oc get pods
71 oc get pods -n openshift-etcd
72 oc get service
73 oc get service -n openshift-etcd
74 oc api-versions
75 oc api-resources
76 oc api-resources | grep ""pod
77 vim pod.yaml
78 oc create -f pod.yaml
79 oc get pods
80 oc describe pod my-pod
81 oc get pds
82 oc get pods
83 oc get pods -o wide
84 vim pod.yaml
85 oc project openshift-etcd
86 oc get pods
87* oc get pods -o y
88 oc project openshift-apiserver
89 oc get pods
90 oc get pods -o yaml
91 oc get pods -o yaml | less
92 oc project training
93 oc get pods -o yaml
94 oc get pods -o yaml | yq r - 'item.status.PodIP'
95 oc get pods -o yaml | yq r - 'items.status.PodIP'
96 oc get pods -o yaml | yq r - 'status.PodIP'
97 oc get pods -o yaml | yq r - 'status.podIP'
98 oc get pods -o yaml | yq r - 'items.status.podIP'
99* oc get pods -o yaml | yq r - 'itemsstatus.podIP'
100 oc get pods -o yaml | yq r - 'items[0].status.podIP'
101 oc projects
102* oc get pods -o yaml | yq r - 'items[0].status.podIP'his
103 oc get pods -o yaml | less
104 oc get pods -o yaml
105 history
```