

Q. 7: Scale an application automatically :

Automatically scale the hyderabad deployment in the latur project with the follow

Minimum number of pods: 1

Maximum number of pods: 9

Target average CPU utilization per pod: 60 percent

The pods require 25m CPU time to operate

The pods must not consume more than 180m CPU time

Answer:

Prerequisite for LAB / not for EXAM:

1. \$ wget https://k8s.io/examples/application/php-apache.yaml

Edit the file and change the metadata: name:hyderabad and remove

Resources properties.

2. \$ oc adm policy add-scc-to-user anyuid-z default

3. \$ oc create-f php-apache.yml

```
student@workstation ~]$ vim php-apache.yaml
student@workstation ~]$ oc apply -f php-apache.yaml
deployment.apps/hyderabad created
service/php-apache created
student@workstation ~]$ oc adm policy add-scc-to-user anyuid-z default
clusterrole.rbac.authorization.k8s.io/system:openshift:scc:anyuid-added: "default"
```

Exam Commands:

```
[student@workstation ~]$ oc set resources deployment hyderabad --requests=cpu=25m --limits=cpu=180m
deployment.apps/hyderabad resource requirements updated
[student@workstation ~]$ oc autoscale deployment hyderabad --min=1 --max=9 --cpu-percent=60
horizontalpodautoscaler.autoscaling/hyderabad autoscaled
[student@workstation ~]$ oc get hpa
```

NAME	REFERENCE	TARGETS	MINPODS	MAXPODS
hyderabad	Deployment/hyderabad	<unknown>/60%	1	9