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                EX280_v4.x
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Exam Instructions:
1) you will have 8 VMs in the exam
        - loadbalancer.domain3.example.com
        - registry.domain3.example.com
        - workbench.domain3.example.com (where we will do our work)
        - master0.domain3.example.com
        - master1.domain3.example.com
        - master2.domain3.example.com
        - worker0.domain3.example.com
        - worker1.domain3.example.com

2) 3 Hours Exam
3) Cluster is already configured and all required packages are installed. In case you
need any package, you can install with preconfigured repositories.
4) Docs are available in html and pdf format
5) Cluster Web Console and API url will be given in the exam:
        https://console.domain3.example.com:6443
        https://api.domain3.example.com:6443
6) kubeadmin user password is stored in /root/kubeadmin-passwd on workbench VM
7) once common password will be given in the exam, we can use same password to access
workbench VM as root

Q1) Manage Identity Providers: (secret name and identity provider name will be given in
the exam)
        - Create user bob with password indionce
        - Create user qwerty with password catalog
        - Create user john with password john123
        - Create user natasha with password natasha123
        - Create user harry with password harry123
        - Create user susan with password susuan123
        - Identity provider name should be users

Q2) Manage Cluster Project and Permissions:
        - Create project with named apollo,test,demo
        - bob user should have cluster administrator rights
        - john user can create new projects
        - qwerty user can not create projects
        - natasha user can only view the resources of apollo and test project
        - kubeadmin user should not exist (remove kubeadmin user)

Q3) Managing Groups:
        - Create a groups with named site-users and guest-users
        - add qwerty user in guest-users group
        - add harry and susan users in site-users
        - Give edit permission to sites-users groups on test project
        - Give view permission to guest-users groups on demo project

Q4) Create resource quota for project rocky:
        - pods = 3
        - cpu = 2
        - services = 6
        - memory = 1Gi
        - secrets = 6

Q5) Create LimitRange for project rocky:
        - Set the pod memory limit between 5Mi and 300Mi
        - Set the container memory limit between 5Mi and 300Mi
        - Set the pod cpu limit between 5m and 300m
        - Set the container cpu limit between 5m and 300m
        - Set the container default limit for memory and cpu to 100Mi and 100m
respectively

Q6) Scale Application Manually:
        - scale the single-pod replicas to 6 under the project world and make sure all
pods should run successfully.

Q7) Autoscale of Pods in scaling project:
        - minimum replicas=2, maximum replicas=9 and cpu percentage=60%
        - Default request for container memory should 100Mi and cpu 50m

Q8) Create secret with named ex280-secure in secure project
        - The key name should be myuser
        - The value of key should be asdf234234=

Q9) Use Secret in secure project
        - There is one pod already exists.
        - it should use ex280-secure secret
        - Application Should Produce Output.

Q10) Create Secure Route in quart project
        - One application is already running named with hello based on http
        - It should run on https with self-signed certificate.
        - It should use '/CN=quart.apps.domain3.example.com'
        - It should run on https with following url:
                https://quart.apps.domain3.example.com
        - Application should produce output.

Q11) Create Service Account(user) in project1:
        - Service Account (user) Should be project1-sa
        - Service Account should be associated with anyuid SCC

Q12) Deploy application in the project project1:
        - There is one pod already running and,
        - Application should produce output

Q13) Deploy application in the project project2:
        - There is one pod already running and,
        - Application should produce output

Q14) Deploy application in the project project3:
        - There is one pod already running and,
        - Application should produce output

Q15) Deploy application in the project project4:
        - There is one pod already running and,
        - Application should produce output

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(FOR OUR KNOWLEDGE: In every "deploy application" question there is one application is
already deployed with one pod which is having some issues we will have to fix
it)
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