Question-1:

Configure an identity provider

Configure your OpenShift cluster to use an HTPasswd identity provider with the following

The name of the identity provider is: ex280-htpasswd

The name of the secret is: ex280-idp-secret

The user account armstrong is present and can log in with password indionce

The user account collins is present and can log in with password veraster

The user account aldrin is present and can log in with password roonkere The user account jobs is present and can log in with password sestiver

The user account wozniak is present and can log in with password glegunge

Question-2:

Configure cluster permissions

Configure your OpenShift cluster to meet the following requirements:

The user account jobs can perform cluster administration tasks

The user account wozniak can create projects

The user account wozniak cannot perform cluster administration tasks The user account armstrong cannot create projects

The user account kubeadmin is not present

Question-3:

configure project permissions .Configure your OpenShift cluster to meet the following requirements: The following projects exist:

apollo

manhattan

gemini

bluebook

titan

The user account armstrong is an administrator for project apollo and project gemini The user account wozniak can view project titan but not administer or delete it

Question-4:

Configure groups

Configure your OpenShift cluster to meet the following requirements:

The user account armstrong is a member of the commander group

The user account collins is a member of the pilot group

The user account aldrin is a member of the pilot group

Members of the commander group have edit permission in the apollo proj Members of the pilot group have view permission in the apollo project

Question-5:

Configure quotas

Configure your OpenShift cluster to use quotas in the manhattan project with the following require

The name of the quota is: ex280-quota

The amount of memory consumed across all containers may not exceed 161

The total amount of CPU consumed across all containers may not exceed 2 full cores

The maximum number of replication controllers does not exceed 3

The maximum number of pods does not exceed 3

The maximum number of services does not exceed 6

Question-6:

Scale an application manually

Ensure that there are exactly 5 replicas of the minion application in the gru project.

Question-7:

Scale an application automatically

Automatically scale the hydra deployment in the lerna project with the follow

Minimum number of pods:

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 180 CPU time

Question-8:

Configure a secure route

Configure the oxcart application in the area51 project with the following requirements:

The application uses a secure route called oxcart

Traffic between the client and the router is encrypted

Traffic between the router and the service is unencrypted

The route uses a CA signed certificate with the following subject fields:

/C=US/ST=NV/L=Hiko/O=CIA/OU=USAF/CN=classified.apps.domain20.example.com

The application is reachable only at the following address:

https://classified.apps.domain28.example.com

The application produces output

Question-9:

Configure application data

Deploy an application using the openshift/hello-openshift image that meets the follow @g requirements;

The application is part of a project named: acid

The application is named: phosphoric

The application uses a key named RESPONSE in a configuration map named sedicen

The application is running and available at http://phosphoric acid.apps.domain20.example.com and displ

Soda pop won't stop can't stop

Question-10:

Deploy an application

EX280 exam prepared for

Deploy the chart named redhat-movie in the project ascii-movie from the repository http://helm.domain20.example.com/chart//

You may use the telnet or ne commands to validate the deployment.

Queston-11:

Configure a secret

Configure a secret in the math project with the following requirements:

The name of the secret is: magic

The secret defines a key with name: decoder_ring

000 VRCKukQdrosbcl0c2ZYhDk- The secret defines the key with value: XpWy9KdcP3T

Question-12:

Configure an application to use a secret

Configure the application called qed in the math project with the following requirements:

The application uses the secret previously created called: magic The secret defines an environment variable with name: DECODER_RING

The application output no longer displays: Sorry, application is not configured correctly.

Queston-13:

Configure a service account

Configure a service account in the apples project to meet the following requirements:

The name of the service account is ex280sa

The service account allows pods to be run as any available user

Question-14:

Deploy an application

Deploy the application called oranges in the apples project so that the following condition

No configuration components have been added or removed

The application produces output

The application uses the ex280sa service account

Question-15:

Deploy an application

Deploy the application called atlas in the mercury project so that the following condition

No configuration components have been added or removed

The application produces output

Question-16:

configure a network policy

Configure a network policy using the database and checker projects with the following requirements:

The database project has network policy with the name db-allow-sysql-conn based on pod selector label

network.openshift.io/policy-group

Connections to the database project are restricted to deployments from the checker project The network policy is filtered by project selector using the team devsecops label and pod selector using the deploymentb-sysql label

The application can establish a connection to port 3306/TCP

You can check your work by examining the logs in the checker project.

Question-17:

Configure a project template

Configure your OpenShift cluster so that new projects are created with limits using the following requirements

The name of the limit range is: PROJECT NAME-Limits where PROJECT NAME is the name of the project created using ac new-project The amount of memory consumed by a single container is between 128i and 16i with a default of 512M and a default request of 256

Question-18:

Install the file-integrity operator with the following

The operator is installed in the openshi egrity project

The approval strategy is Automatic

Cluster monitoring is enabled for the openshift-file-integrity project

Question-19:

Create a cron job using the image at registry.domain20.example.com/library/job-runner: Latest with the following requirements:

The cron job name is job-runner

The cron job runs at 04:05 on the 2nd day of every month

The successful job history limit is 14

The service account and service account name is magna

The cron job runs in the project called elementum

Question-20:

Collect cluster information for Red Hat support

Collect the default support information for your OpenShift cluster with the following requirements:

The data is stored as a compressed tar archive using tar craf

The name of the compressed tar archive is:

ex280-ocp-clusterID.tar.gz

where clusterID is the unique identifier of your OpenShift cluster

The archive has been uploaded for grading

A utility script has been provided for you to upload the archive as follows:

/usr/local/bin/upload-cluster-data ex280-acp-clusterID.tar.gz

You may upload the archive as many times as necessary. Each uploaded archive will overwrite any previously uploaded

Question-21:

A storage class has been configured to provide NFS storage.

Using information from that storage class, configure a persistent volume with the following requirements:

Name: Landing-pv

Access mode: ReadOnlyPlany 0000

Size: 161

The reclaim policy matches the storage class

Configure a persistent volume claim with the following requirements:

Name: Landing-pvc

The size is the same as the persistent volume

The access mode is the same as the persistent volume

Deploy the application with the following requirements:

The application exists in a project called page

The application uses a deployment called Landing

The application uses the image hosted at registry.domain28.example.com/nginxinc/nginx-unprivileged: latest

The nginx mountpoint is /usr/share/nginx/html

The application uses 3 pods

The application is accessible at https://landing-page.apps.domain20.example.com

Question-22:

Configure a health probe

An application named atlas has been deployed with a single container in the mercury project.

Implement a liveness probe for this container that meets the following requirements:

The probe monitors liveness by performing a TCP socket check on port 808e

The probe has an initial delay of 10 seconds and a timeout of 30 seconds