Lab1:

Currently there is no way to update the encryption of an existing disk. Therefore you

should create a new disk with Encryption set to Customer supplied.

From Google Cloud Console

1. Go to Compute Engine Disks by visiting:

<https://console.cloud.google.com/compute/disks>.

2. Click CREATE DISK.

3. Set Encryption type to Customer supplied,

4. Provide the Key in the box.

5. Select Wrapped key.

6. Click Create.

From Google Cloud CLI

In the gcloud compute tool, encrypt a disk using the --csek-key-file flag during instance

creation. If you are using an RSA-wrapped key, use the gcloud beta component:

gcloud compute instances create <INSTANCE\_NAME> --csek-key-file <examplefile.json>

To encrypt a standalone persistent disk:

gcloud compute disks create <DISK\_NAME> --csek-key-file <example-file.json

Lab 2:

From Google Cloud Console

1. Go to the VM instances page by visiting:

<https://console.cloud.google.com/compute/instances>.

2. Click on the instance name to see its VM instance details page.

3. Click STOP to stop the instance.

4. When the instance has stopped, click EDIT.

5. In the Shielded VM section, select Turn on vTPM and Turn on Integrity Monitoring.

6. Optionally, if you do not use any custom or unsigned drivers on the instance, also

select Turn on Secure Boot.

7. Click the Save button to modify the instance and then click START to restart it.

From Google Cloud CLI

You can only enable Shielded VM options on instances that have Shielded VM support.

For a list of Shielded VM public images, run the

gcloud compute images list command

with the following flags:

gcloud compute images list --project gce-uefi-images --no-standard-images

1. Stop the instance:

gcloud compute instances stop <INSTANCE\_NAME>

2. Update the instance:

gcloud compute instances update <INSTANCE\_NAME> --shielded-vtpm --shieldedvm-integrity-monitoring

Lab 3:

1. Go to the VM instances page by visiting: <https://console.cloud.google.com/compute/instances>
2. Click on the instance name to go the the Instance detail page.
3. Click Edit.
4. For each Network interface, ensure that External IP is set to None.

Click Done and then click Save.

From Google Cloud CLI 1. Describe the instance properties:

gcloud compute instances describe --zone=