**SYST35144: Cloud System Final Project**

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# 1.TF code building out VPCs, subnets, route tables, GWs, SGs, and bastion hosts

Answer:

Please see the attached zip file : cloud.zip

# 2. Building out the rest of the infrastructure on the diagram:

Peering connection

Updated route tables (if needed)

Updated SGs (if needed)

Answer:

## Create Peering connection

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, website

Description automatically generated

Graphical user interface, text, website

Description automatically generated

## Updated route tables Graphical user interface, text, application Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

## Updated SGs Graphical user interface, text, application, email Description automatically generated

Graphical user interface, text, application

Description automatically generated

# 3. Admin users should be able to ssh to PC-Shared-VM1 and PC-Shared-VM2 in the private subnets

Answer:

1. SSH into the public subnet VPC-Shared-Bastion from my machine.

Identify

private IP address to EC2 instance in VPC-Shared-VM1 private subnet

private IP address to EC2 instance in VPC-Shared-VM2 private subnet

copy the A4KP .pem file to VPC-Shared-Bastion

1. SSH into the private subnet VPC-Share VM1 subnet from public subnet VPC-Shared-Bastion.
2. SSH into the private subnet VPC-Share VM2 subnet from public subnet VPC-Shared-Bastion.

## SSH into the public VPC-Shared-Bastion from my machine

## Text Description automatically generatedSSH into the private VPC-Shared-VM1 from public VPC-Shared-Bastion

Text

Description automatically generated

## SSH into the private VPC-Shared-VM2 from public VPC-Shared-BastionText Description automatically generated

# 4. VPC-Shared-VM1 should be able to ping VPC-Shared-VM2 and vice versa

Answer:

## VPC-Shared-VM1 pings VPC-Shared-VM2

Text

Description automatically generated

## VPC-Shared-VM2 pings VPC-Shared-VM1Text Description automatically generated with low confidence

## SGs settingGraphical user interface, text, application, email Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

# 5. VPC-Shared-VM2 should be able to ping VPC-Dev-VM1 using the peer connection

Answer:

## VPC-Shared-VM2 pings VPC-Dev-VM1

Text

Description automatically generated

## SGs setting

Graphical user interface, text, application, email

Description automatically generated

## Route tables settingGraphical user interface, text, application Description automatically generated

Graphical user interface, text, application, email

Description automatically generated