# Lab-10-1: AWS Networking

# Objectives

* Host Static web page on S3
* Launch a webserver on a private VPC
* Configure subnet routing



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**Today:**

Login to awseducate.com

Classrooms, then goto classroom

Aws console

**Task1: Host a basic website on AWS Simple Storage Service (S3)**

1. You will create a bucket in S3
2. Upload Content on the bucket
3. Enable Access to bucket Object

Create a bucket on S3

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* Put a name <Yournetid>numbers
* Do not Block all public access
* Go to Properties Tab
* Put a tag on your Bucket
* Choose Static Website Hosting
* Put index.html as index document
* Upload the Files provided on Teams->Files->week10->web
* Make these files public
* Click on index.html

Paste the screen shots of the website you just created below:

Graphical user interface

Description automatically generated

# Task 2: Create a Virtual Private Network (VPC) and host a webserver inside a public subnet

# In this task, you are going to setup a virtual network in AWS, that has both private and public subnets that spans multiple availability zones.

# The network is shown below:

# 

# You will do the following:

# Create a VPC

# Create Subnets

# Configure a security group

# launch an ec2 instance on VPC

# Create VPC and the Subnets:

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# 1. Open the VPC service from AWS Management Console

# 2. Launch VPC

# 3. Create a public ip

# 4. Select 'vpc wih public and private subnets' from left panel

# - vpc name: OPBIT

# - public subnet name: Public Subnet 1

# - select the first availability Zone

# - private subnet name: Private Subnet 1

# - select the first availability Zone

# - pick the elastic ip

# Q1. What are the CIDR of public and private subnets?

# 5. Create two more subnets

# - select subnets from left panel

# - select the VPC you created

# - Select second availability Zone for this

# two subnets: Public Subnet 2 and

# Private Subnet 2

# - put corresponding CIDR for these

# two subnets (Refer to the diagram)

# Create Routing Tables for private and public clouds

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6. Create Routing Tables

- from left panel select Route Table

- Select the route table that has

Main=Yes and VPC=OPBIT

- Name this route table as Private Routing Table

- Change the subnet association to

Private subnet 1 and Public Subnet 1

7. Repeat step 6 for creating Routing Table for Public Subnets

- Select Main=No and VPC=OPBIT

**Q2. What is the Target route for Destination 0.0.0.0/0**

**for the private route and public route**

**Graphical user interface, application, Word

Description automatically generated**

Create Security Group

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Create the security group that allows inbound traffic to http

Launch a Web server instance

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Select the Amazon Linux 2

Select t2.micro

Configure instance details:

- set the instance at the public subnet 2 you created

- Copy and paste the following code as User data from

Advanced Details

|  |
| --- |
| #!/bin/bash  # Install Apache Web Server and PHP  yum install -y httpd mysql php  # Download Lab files  wget https://aws-tc-largeobjects.s3.amazonaws.com/AWS-TC-AcademyACF/acf-lab3-vpc/lab-app.zip  unzip lab-app.zip -d /var/www/html/  # Turn on web server  chkconfig httpd on  service https start |

Add Storage

Add Tag

Attach the security group you created early.

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**Paste the screen shot of the webserver accessed through from your browser.**