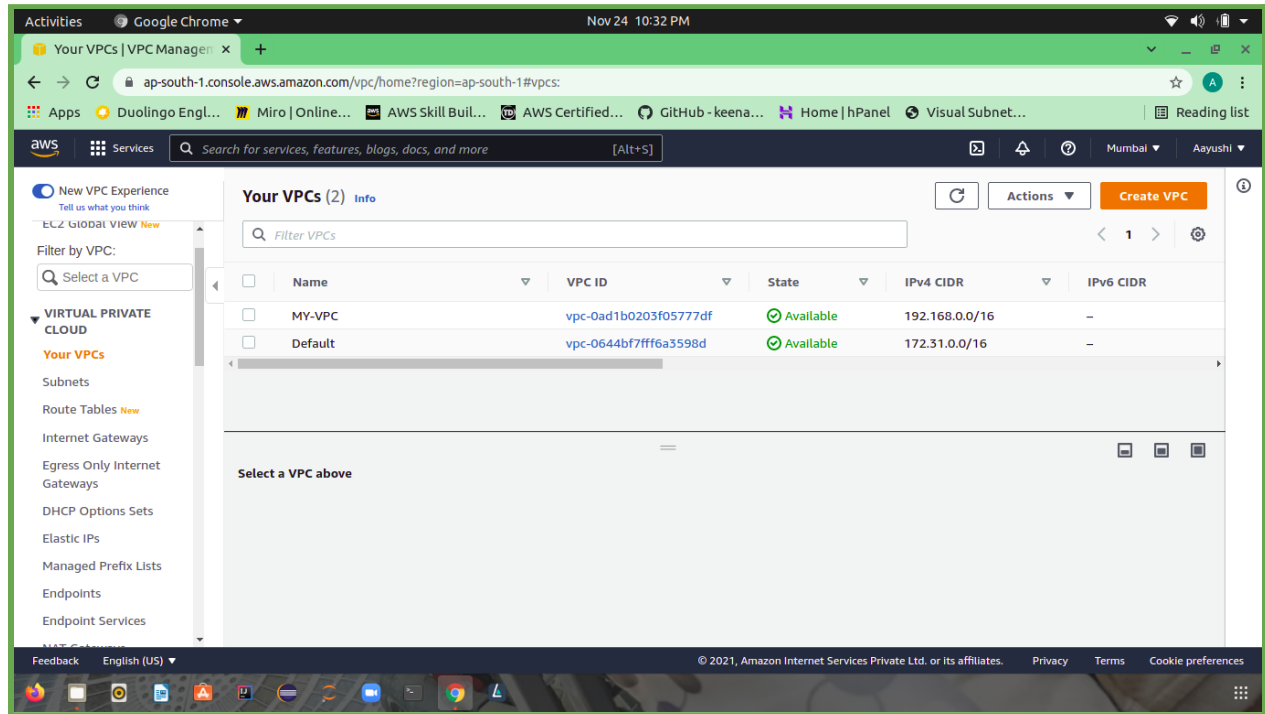


Module - 4 VPC Assignment - 4

You have been asked to:

1. Create a VPC Endpoint for an S3 bucket of your choice

Create VPC



Create subnets

Activities Google Chrome Nov 24 10:32 PM

Subnets | VPC Management x

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#subnets:

Subnets (5) Info

Filter subnets

1

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	-	subnet-0cc54cee9e5c79b46	Available	vpc-0644bf7fff6a3598d Defa...	172.31.16.0/20
<input type="checkbox"/>	-	subnet-0ee060e593144ea13	Available	vpc-0644bf7fff6a3598d Defa...	172.31.32.0/20
<input type="checkbox"/>	-	subnet-0a0499d11da6d664f	Available	vpc-0644bf7fff6a3598d Defa...	172.31.0.0/20
<input type="checkbox"/>	Public-Subnet	subnet-07493c946778c4d98	Available	vpc-0ad1b0203f05777df MY...	192.168.0.0/17
<input type="checkbox"/>	Private-Subnet	subnet-06839023d650f60dd	Available	vpc-0ad1b0203f05777df MY...	192.168.128.0/17

Select a subnet

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Create Internet-GW

Activities Google Chrome Nov 24 10:33 PM

Internet gateways | VPC x

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#gws:

Internet gateways (2) Info

Filter Internet gateways

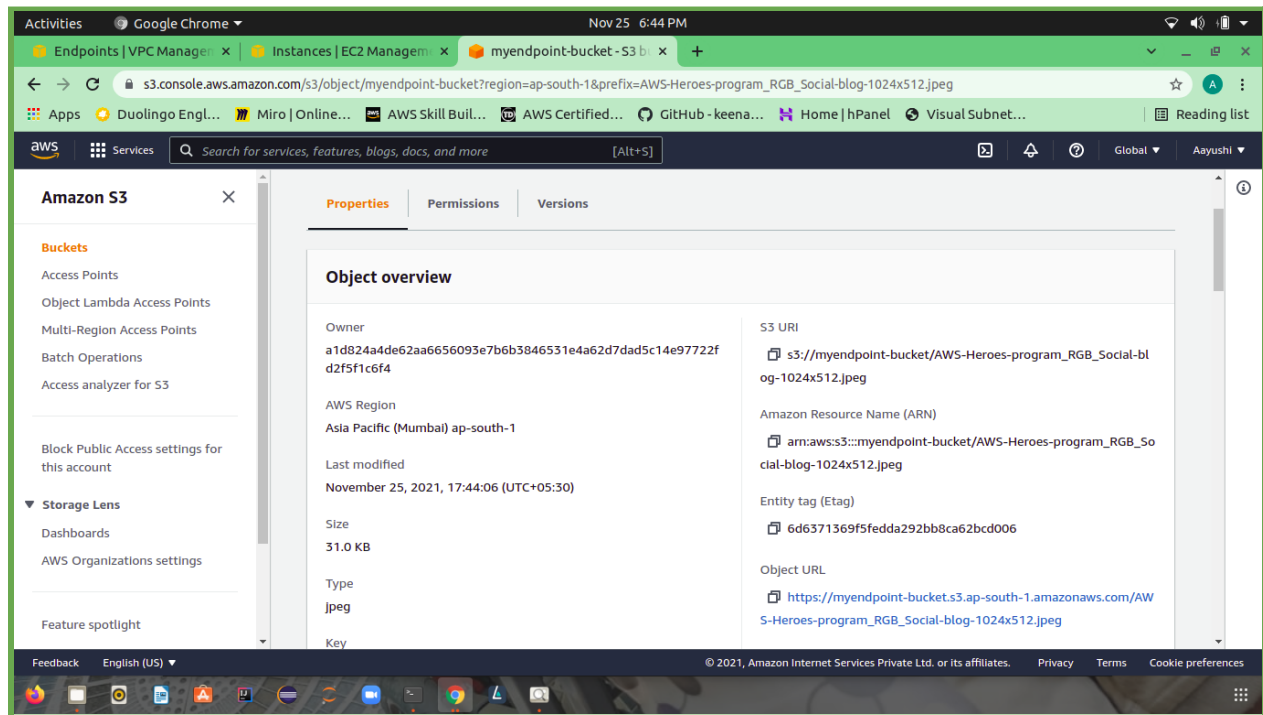
1

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	VPC-IGW	igw-0223807cb32bf9a30	Attached	vpc-0ad1b0203f05777df MY-VPC	60090417281
<input type="checkbox"/>	Default	igw-02b0574aa0ba7188a	Attached	vpc-0644bf7fff6a3598d Default	60090417281

Select an internet gateway above

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Now create S3 bucket and upload object make both bucket and object public



Create EC2 instances

Activities Google Chrome Nov 25 6:44 PM

Endpoints | VPC Manager | Instances | EC2 Management | myendpoint-bucket - S3

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

Services Search for services, features, blogs, docs, and more [Alt+S]

New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations

Instances (1/2) Info

Filter Instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	Public-Instance	i-0352e7cbf40a29069	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1
<input checked="" type="checkbox"/>	Private-Instance	i-0cd8225962d58b570	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1

Launch instances

Instance: i-0cd8225962d58b570 (Private-Instance)

Instance summary Info

Instance ID i-0cd8225962d58b570 (Private-Instance)	Public IPv4 address -	Private IPv4 addresses 192.168.181.88
IPv6 address -	Instance state Running	Public IPv4 DNS -
Hostname type	Private IP DNS name (IPv4 only)	Answer private resource DNS name

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Now create endpoint

Activities Google Chrome Nov 25 6:45 PM

Endpoints | VPC Manager | Instances | EC2 Management | myendpoint-bucket - S3

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#Endpoints:sort=vpcEndpointId

Services Search for services, features, blogs, docs, and more [Alt+S]

New VPC Experience Tell us what you think

EC2 Global View New

Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD
Your VPCs
Subnets
Route Tables New
Internet Gateways
Egress Only Internet Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
Endpoints
Endpoint Services

Create Endpoint Actions

Filter by tags and attributes or search by keyword

	Name	Endpoint ID	VPC ID	Service name	Endpoint type	Status	Creation time
<input checked="" type="checkbox"/>	vpce-0668153eb5...	vpce-0ad1b0203f0...	com.amazonaws.ap-south-1.s3	Gateway	available	November 25, 2021 at 6:25:30 PM UTC+5:30	

Endpoint: vpce-0668153eb5e1c29b4

Details Route Tables Policy Tags

Endpoint ID	vpce-0668153eb5e1c29b4	VPC ID	vpce-0ad1b0203f0577df MY-VPC
Status	available	Status message	
Creation time	November 25, 2021 at 6:25:30 PM UTC+5:30	Service name	com.amazonaws.ap-south-1.s3
Endpoint type	Gateway	DNS names	
Private DNS names enabled	false		

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Activities Google Chrome Nov 25 6:45 PM

Endpoints | VPC Manager | Instances | EC2 Manager | myendpoint-bucket - S3 | +

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#Endpoints:sort=vpcEndpointId

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aws Services Search for services, features, blogs, docs, and more [Alt+S]

New VPC Experience Tell us what you think

EC2 GLOBAL VIEW New

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables New

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

Create Endpoint Actions

Filter by tags and attributes or search by keyword

1 to 1 of 1

Name	Endpoint ID	VPC ID	Service name	Endpoint type	Status	Creation time
vpce-0668153eb5...	vpce-0ad1b0203f0...	com.amazonaws.ap-south-1.s3	Gateway	available	November 25, 2021 at 6:45 PM	

Endpoint: vpce-0668153eb5e1c29b4

Details Route Tables Policy Tags

Manage Route Tables

Route Table ID	Main	Associated With
rtb-063b303be316719e9	No	subnet-06839023d650f60dd Private-Subnet

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Configure route-table

Activities Google Chrome Nov 25 6:45 PM

Endpoints | VPC Manager | Instances | EC2 Manager | myendpoint-bucket - S3 | +

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#RouteTables:

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New VPC Experience Tell us what you think

EC2 GLOBAL VIEW New

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables New

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

Route tables (1/3) Info

Filter route tables

1

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
<input checked="" type="checkbox"/> VPC-RT-02	rtb-063b303be316719e9	subnet-06839023d650f...	-	No	vpce-0ad1b0203f0577...
<input type="checkbox"/> VPC-DRT-01	rtb-028ca7cd989bb8fb7	subnet-07493c946778c...	-	Yes	vpce-0ad1b0203f0577...
<input type="checkbox"/> Default	rtb-06b30ce09a6b90680	-	-	Yes	vpce-0644bf7fff6a359...

Filter routes

Both 1

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No
pl-78a54011	vpce-0668153eb5e1c29b4	Active	No

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Take the remote

```

Activities Terminal Nov 25 6:46 PM
ec2-user@ip-192-168-181-88:~$
root@Varonica:/home/aayushi/Downloads# chmod 400 Mumbai-Keypair.pem
root@Varonica:/home/aayushi/Downloads# ssh -i "Mumbai-Keypair.pem" ec2-user@65.2.144.18
Last login: Thu Nov 25 12:59:55 2021 from 203.192.216.44

      _ _   _ 
     /_/_ \_/ \_/_   Amazon Linux 2 AMI
    /___\___\___\___\

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-192-168-66-157 ~]$ ls -l
total 4
-r----- 1 ec2-user ec2-user 1679 Nov 25 12:17 key.pem
[ec2-user@ip-192-168-66-157 ~]$ nano key.pem
[ec2-user@ip-192-168-66-157 ~]$ chmod 400 key.pem
[ec2-user@ip-192-168-66-157 ~]$ ssh -i key.pem ec2-user@192.168.181.88
Last login: Thu Nov 25 13:00:13 2021 from 192.168.66.157

      _ _   _ 
     /_/_ \_/ \_/_   Amazon Linux 2 AMI
    /___\___\___\___\

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-192-168-181-88 ~]$
[ec2-user@ip-192-168-181-88 ~]$ wget https://myendpoint-bucket.s3.ap-south-1.amazonaws.com/AWS-Heroes-program_RGB_Social-blog-1024x512.jpeg
--2021-11-25 13:14:17-- https://myendpoint-bucket.s3.ap-south-1.amazonaws.com/AWS-Heroes-program_RGB_Social-blog-1024x512.jpeg
Resolving myendpoint-bucket.s3.ap-south-1.amazonaws.com (myendpoint-bucket.s3.ap-south-1.amazonaws.com)... 52.219.64.127
Connecting to myendpoint-bucket.s3.ap-south-1.amazonaws.com (myendpoint-bucket.s3.ap-south-1.amazonaws.com)[52.219.64.127]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 31701 (31K) [image/jpeg]
Saving to: 'AWS-Heroes-program_RGB_Social-blog-1024x512.jpeg.1'

100%[=====] 31,701 --.-K/s in 0.001s

2021-11-25 13:14:17 (35.6 MB/s) - 'AWS-Heroes-program_RGB_Social-blog-1024x512.jpeg.1' saved [31701/31701]

[ec2-user@ip-192-168-181-88 ~]$
```