



ASSIGNMENT NO-01

Project no - 01

A. Working with IAM Roles with S3 and bootstrapping with EC2.

Task1: Creating a bootstrapped instance

- Firstly going to **EC2 Console**.
- Create a **linux instance** and then in that....in **USER DATA** section add the script

The screenshot shows the AWS EC2 Instance Configuration Wizard, Step 3: Configure Instance Details. The 'User data' field contains the following shell script:

```
#!/bin/bash\n#(using the bash environment)\nyum -y install httpd\n(service httpd start)
```

ADDING THE SCRIPT IN USER DATA
– IT WOULD RUN, WHEN THE
INSTANCES IS RUNNING (I.E
BOOTING FOR FIRST TIME)

which is **CLI** concept.

```

Amazon Linux 2 M1
https://aws.amazon.com/amazon-linux-2/
2 package(s) needed for security, out of 13 available
Run "sudo yum update" to apply all updates.
(ec2-user@ip-172-31-40-61 ~)

```

i-0a39f58b0ea772f28 (BOOTING)

Public IPs: 18.224.184.246 Private IPs: 172.31.40.61

Instance summary for i-0a39f58b0ea772f28 (BOOTING)

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0a39f58b0ea772f28 (BOOTING)	18.224.184.246 open address	172.31.40.61
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	ec2-18-224-184-246.us-east-2.compute.amazonaws.com open address	ip-172-31-40-61.us-east-2.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.micro	-	vpc-4e46e525
IAM Role	Subnet ID	
-	subnet-bf5038f3	

AWS Compute Optimizer
Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

[Details](#) [Security](#) [Networking](#) [Storage](#) [Monitoring](#) [Tags](#)

Instance details [Info](#)

- Then **Launch** it.....

Test Page

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:
The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you should send mail to "webmaster@example.com".

If you are the website administrator:
You may now add content to the directory /var/www/html/. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file /etc/httpd/conf.d/welcome.conf.

You are free to use the image below on web sites powered by the Apache HTTP Server:

Powered by **APACHE** 2.4

OUTPUT-

BOOTING

Task 2: Checking bucket list and creating a new bucket from EC2 using IAM ROLES.

- INITIALLY Go to the IAM section under the security, identity & compliance.
- Then select IAM in that ROLES section.

The screenshot shows the AWS IAM Dashboard. On the left, there's a navigation menu with 'Identity and Access Management (IAM)' selected. Under 'Access management', 'Roles' is highlighted with a black arrow. The main content area displays the 'IAM dashboard' with sections for 'Sign-in URL for IAM users in this account', 'IAM resources' (showing 0 users, 0 groups, 3 roles, and 0 customer managed policies), 'Security alerts' (warning about MFA), and 'Best practices' (with several recommendations). To the right, there's an 'Additional information' sidebar with links to IAM documentation, videos, tools like the policy simulator, and quick links to my access key.

ROLE- permissioned assigned to the service

- Create role.
- Choosing ec2 service.

The screenshot shows the 'Create role' wizard, step 1: 'Select type of trusted entity'. It has four options: 'AWS service' (selected), 'Another AWS account', 'Web Identity', and 'SAML 2.0 federation'. Below each option is a brief description. Step navigation buttons (1, 2, 3, 4) are at the top right. At the bottom, there are 'Cancel' and 'Next: Permissions' buttons.

- Giving a role the Name
- i.e- S3_FACCESS_IAM

Review

Provide the required information below and review this role before you create it.

Role name* S3_FACCESS_IAM

Use alphanumeric and '+-=_,@-' characters. Maximum 64 characters.

Role description Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and '+-=_,@-' characters.

Trusted entities AWS service: ec2.amazonaws.com

Policies AmazonS3FullAccess

Permissions boundary Permissions boundary is not set

The new role will receive the following tag

Key	Value
ACCESSIONER	S3_ACCESS

* Required

[Cancel](#)

[Previous](#)

[Create role](#)

- THERE are readily available policies choose only one of them – **S3_full_access**.
- Then create **LINUX** instances

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	1	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	vpc-4e46e525 (default)	Create new VPC
Subnet	No preference (default subnet in any Availability Zone)	Create new subnet
Auto-assign Public IP	Use subnet setting (Enable)	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	Open	
Domain join directory	No directory	
IAM role	<input type="button" value="None"/> <input type="button" value="None"/> <input type="button" value="S3_FACCESS_IAM"/> Create new IAM role	
Shutdown behavior	<input type="checkbox"/> Stop	
Stop - Hibernate behavior	<input type="checkbox"/> Hibernate	
Enable termination protection	<input type="checkbox"/> Protect against accidental termination	
Monitoring	<input type="checkbox"/> CloudWatch detailed monitoring <small>Additional charges apply.</small>	
Tenancy	Shared - Run a shared hardware instance	

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

- **Launch an instances.**

- And giving permission to S3 as root user.

```
|_|(_|_) / Amazon Linux 2 AMI  
https://aws.amazon.com/amazon-linux-2/  
2 package(s) needed for security, out of 13 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-4-165 ~]$ sudo su  
[root@ip-172-31-4-165 ec2-user]# aws s3 ls  
[root@ip-172-31-4-165 ec2-user]#
```

i-0bd8a98e39b7dc96a (IAM-S3 FULLACCESS)
Public IPs: 3.15.18.40 Private IPs: 172.31.4.165

- Here's the code
- **#!/bin/bash (for using the bash environment)**
- **yum -y install httpd (for installing the server)**
- **service httpd start**

```
|_|(_|_) / Amazon Linux 2 AMI  
https://aws.amazon.com/amazon-linux-2/  
2 package(s) needed for security, out of 13 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-4-165 ~]$ sudo su  
[root@ip-172-31-4-165 ec2-user]# aws s3 ls  
[root@ip-172-31-4-165 ec2-user]# aws s3 mb s3://bucketiam  
make_bucket: bucketiam  
[root@ip-172-31-4-165 ec2-user]#
```

i-0bd8a98e39b7dc96a (IAM-S3 FULLACCESS)
Public IPs: 3.15.18.40 Private IPs: 172.31.4.165

✓ BUCKET is created (i.e- bucketiam)

The screenshot shows the AWS S3 service page. On the left, there's a sidebar with options like Buckets, Batch operations, Access analyzer for S3, Block public access (account settings), and Feature spotlight. The main area is titled "Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. Learn more ». Documentation". It features a message about temporarily re-enabling the previous version of the S3 console. Below that is a search bar for "S3 buckets" and a "Create bucket" button. A table lists one bucket: "bucketiam" (Bucket name), "US East (N. Virginia)" (Region), and "Oct 15, 2020 5:23:48 PM GMT+0530" (Date created). There are also buttons for "Edit public access settings", "Empty", and "Delete".

The screenshot shows the AWS EC2 Instances page. The sidebar includes options like New EC2 Experience, EC2 Dashboard, Events, Tags, Limits, Instances (with sub-options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, and Capacity Reservations), Images, AMIs, and Elastic Block Store (with sub-options like Volumes and Snapshots). The main content area shows an "Instance summary for i-0bd8a98e39b7dc96a (IAM-S3 FULLACCESS)". The instance is listed as "Running". Key details include:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0bd8a98e39b7dc96a (IAM-S3 FULLACCESS)	3.15.18.40 open address	172.31.4.165
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	ec2-3-15-18-40.us-east-2.compute.amazonaws.com open address	ip-172-31-4-165.us-east-2.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.micro	-	vpc-4e46e525
IAM Role	Subnet ID	
S3_FACCESS_IAM	subnet-ff6ea594	

Below the instance summary, there's a callout for "AWS Compute Optimizer" with the text "Opt-in to AWS Compute Optimizer for recommendations." and a "Learn more" button. At the bottom, there are tabs for Details, Security, Networking, Storage, Monitoring, and Tags.

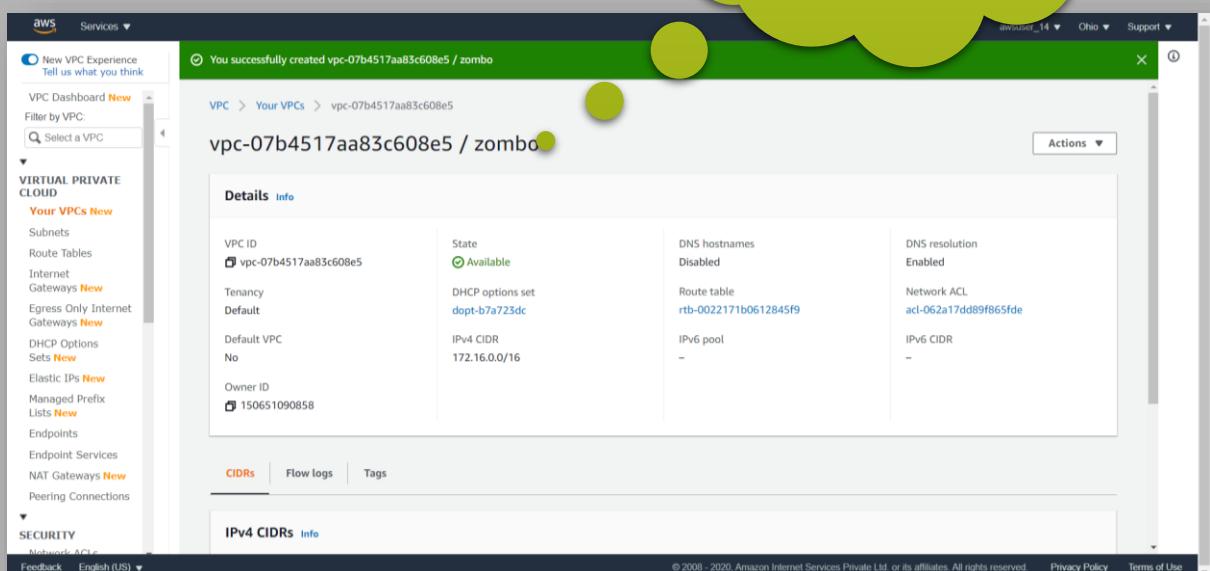
PROJECT 2:

Creating an EC2 instance in custom VPC

Task1: Create a VPC

- Go to VPC and create our own vpc.
- Then give the name tag.
- IP Address-**172.16.0.0/16**

VPC NAME



Task 2: Create an Internet gateway

- GOING TO INTERNET GATEWAY SECTION
- CREATING IGW.
- Giving the tag name
- **i.e- gongatee**

The screenshot shows the 'Create internet gateway' wizard. The first step, 'Create internet gateway', is selected. It asks for a name for the gateway. The 'Name tag' field contains 'gon gatee'. Below this, there is a section for 'Tags - optional' with a key 'Name' and a value 'gon gatee'. At the bottom right, there is a 'Create internet gateway' button.

- **IGW CREATED**

The screenshot shows the AWS VPC Internet Gateways page. A red arrow points from the heading 'IGW CREATED' to the newly created internet gateway 'igw-02d5bbbe3f9ec87a2' in the list. The gateway has a tag 'Name: gongatee'. The page also includes a success message about the creation and a 'Attach to a VPC' button.

Internet gateway ID	State	VPC ID	Owner
igw-02d5bbbe3f9ec87a2	Detached	-	150651090858

- **FURTHER STEPS-**

- 1.

The screenshot shows the AWS VPC Internet Gateways page with the 'gongatee' gateway selected. A context menu is open over the gateway, listing options: Actions (View details, Attach to VPC, Detach from VPC, Manage tags, Delete internet gateway), Create internet gateway, and a copy icon. The 'Details' tab is selected in the main pane.

Name	Internet gateway ID	State	VPC ID
gongatee	igw-02d5bbbe3f9ec87a2	Detached	-

VPC > Internet gateways > Attach to VPC (igw-02d5bbbe3f9ec87a2)

Attach to VPC (igw-02d5bbbe3f9ec87a2) Info

VPC
Attach the internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs
Attach the internet gateway to this VPC.

Select a VPC

AWS Command Line Interface command

Cancel Attach internet gateway

2.
3.

New VPC Experience
Tell us what you think

VPC Dashboard New
Filter by VPC

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

SECURITY
Network ACLs

Feedback English (US) ▾

Internet gateway igw-02d5bbbe3f9ec87a2 successfully attached to vpc-07b4517aa83c608e5

Name	Internet gateway ID	State	VPC ID	Owner
gongatee	igw-02d5bbbe3f9ec87a2	Attached	vpc-07b4517aa83c608e5 zombo	150651090858

igw-02d5bbbe3f9ec87a2 / gongatee

Details Tags

Internet gateway ID igw-02d5bbbe3f9ec87a2	State Attached	VPC ID vpc-07b4517aa83c608e5 zombo	Owner 150651090858
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• 2-CREATING A ROUTE TABLE

Task3: Create a route table

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Name tag

VPC*

Key (128 characters maximum) Value (256 characters maximum)

This resource currently has no tags

Add Tag 50 remaining (Up to 50 tags maximum)

* Required Cancel Create

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Name tag

VPC*

Filter by attributes

vpc-07b4517aa83c608e5 zombo
vpc-4e46e525

This resource currently has no tags

Add Tag 50 remaining (Up to 50 tags maximum)

* Required Cancel Create

ROUTE TABLE NAME - DORA

Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
rtb-0023441b0612845f9		-	-	Yes	vpc-07b4517aa83c608e5 ...	150651090858
dora	rtb-088777199a50af65c	-	-	No	vpc-07d4517aa83c608e5 ...	150651090858
rtb-f81d7693		-	-	Yes	vpc-4e46e525	150651090858

Route Table: rtb-088777199a50af65c

Summary Routes Subnet Associations Edge Associations Route Propagation Tags

Route Table ID: rtb-088777199a50af65c
Explicitly Associated with: -
Owner: 150651090858

Main: No
VPC: vpc-07b4517aa83c608e5 | zombo

● THEN EDIT THE ROUTES BY GOING ACTION MENU.

The image consists of three vertically stacked screenshots of the AWS VPC Route Tables interface. Each screenshot shows a different step in the process:

- Screenshot 1:** Shows the 'Edit routes' screen. A new route is being added for destination 172.16.0.0/16 with target 'igw-' and status 'active'. The 'Propagated' column shows 'No' for all three existing routes. An 'Add route' button is visible at the bottom left.
- Screenshot 2:** Shows the 'Create route table' screen. A new route table named 'dora' is being created. The 'Main' checkbox is checked for this route table. Below the table, the details show 'Route Table ID: rtb-088777199a50af65c', 'Explicitly Associated with: -', and 'Owner: 150651090858'.
- Screenshot 3:** Shows the 'Actions' menu for the 'dora' route table. The 'Set Main Route Table' option is selected. A confirmation dialog box asks, 'Are you sure you want to set this route table as the main route table? (rtb-088777199a50af65c dora)'. The 'OK' button is highlighted.

● SETTING ROUTE TABLE AS A MAIN

This screenshot shows the 'Set Main Route Table' dialog box from the previous screenshot. The dialog contains the question 'Are you sure you want to set this route table as the main route table? (rtb-088777199a50af65c dora)' and two buttons: 'Cancel' and 'OK'. The 'OK' button is highlighted.

The screenshot shows the AWS VPC Route Tables page. On the left, there's a sidebar with navigation links for VPCs, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, and Peering Connections. The main content area displays a table of route tables. One row is selected, showing its details: Route Table ID (rtb-088777199a50af65c), Main (Yes), VPC ID (vpc-07b4517aa83c608e5), and Owner (150651090858). The table has columns for Name, Route Table ID, Explicit subnet association, Edge associations, Main, VPC ID, and Owner.

- **ROUTE TABLE IS CONNECTED AND ATTACHED TO VPC.**

Task4: Create a subnet

- **FOLLOWING STEPS- NAME AS ZOMBOOIEE**

The screenshot shows the 'Create subnet' page. It asks for the subnet's IP address block in CIDR format. The form includes fields for 'Name tag' (zomboooiee), 'VPC' (vpc-07b4517aa83c608e5), 'Availability Zone' (No preference), and 'VPC CIDRs'. A table shows one CIDR block (172.16.0.0/16) associated with the VPC. Below the table is an 'IPv4 CIDR block' field containing '172.16.0.0/24'. At the bottom are 'Cancel' and 'Create' buttons.

THEN,

The screenshot shows the 'Modify auto-assign IP settings' page. It allows enabling auto-assign IP address settings. The 'Auto-assign IPv4' checkbox is checked, and the 'Enable auto-assign public IPv4 address' option is selected. At the bottom are 'Cancel' and 'Save' buttons.

SUBSET OF 16
IP RANGE

• GIVING SUBNET VALUE – 172.16.0.0/24

• ENABLE IT AND SAVE IT. – AS SHOWNEN IN ABOVE FIG.

Task5 : Create an EC2 in custom vpc .

- CREATING LASTLY WINDOW INSTANNCE.
- CHOOSE YOUR OWN VPC'S
- AND THE SUBNET VALUE
- ENABLE- AUTO ASSIGN PUBLIC IP
- AND THEN CONNECT IT.

1.

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 Launch into Auto Scaling Group

Purchasing option: Request Spot instances

Network: vpc-4e46e525 (default) Create new VPC
vpc-07b4517aa83c609e5 | zombo Create new subnet
vpc-4e46e525 (default)

Subnet: Use subnet setting (Enable)

Auto-assign Public IP: Use subnet setting (Enable)

Placement group: Add instance to placement group

Capacity Reservation: Open

Domain join directory: No directory Create new directory

IAM role: None Create new IAM role

Shutdown behavior: Stop

Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring Additional charges apply

Tenancy: Shared - Run a shared hardware instance

Cancel Previous Review and Launch Next: Add Storage

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 Launch into Auto Scaling Group

Purchasing option: Request Spot instances

Network: vpc-4e46e525 (default) Create new VPC
vpc-07b4517aa83c609e5 | zombo Create new subnet
vpc-4e46e525 (default)

Subnet: subnet-02ce52fb724c51d2 | zombociee | us-east-2a

Auto-assign Public IP: Use subnet setting (Enable)

Placement group: Add instance to placement group

Capacity Reservation: Open

Domain join directory: No directory Create new directory

IAM role: None Create new IAM role

Shutdown behavior: Stop

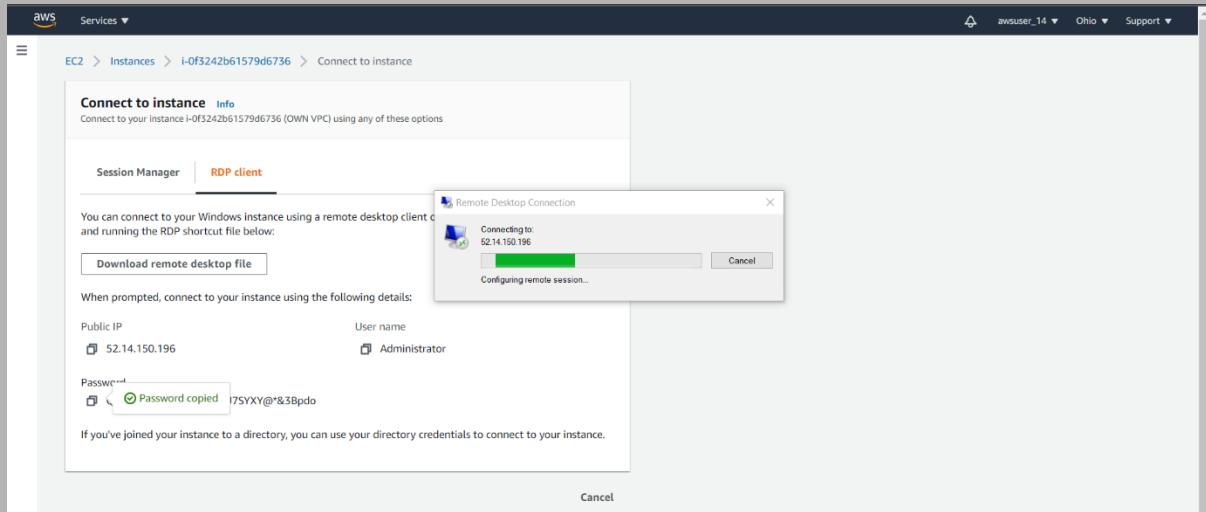
Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring Additional charges apply

Cancel Previous Review and Launch Next: Add Storage

3.



4

The screenshot shows the AWS EC2 Instances page with one instance listed. The instance is named 'OWN VPC' with Instance ID 'i-0f3242b61579d6736', currently 'Running'. The instance type is 't2.micro' and it has an 'ami-0' AMI ID. The Public IPv4 DNS is '52.14.150.196'. The instance summary section shows the Public IPv4 address as '52.14.150.196 | open address' and the Private IPv4 address as '172.16.0.131'. The Public IPv4 DNS is 'ip-172-16-0-131.us-east-2.compute.internal' and the VPC ID is 'vpc-07b4517aa83c608e5 (zombo)'. The instance details section shows the Platform as 'windows'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm Sta...	Availability z...	Public IPv4 DNS	Public IPv...
OWN VPC	i-0f3242b61579d6736	Running	t2.micro	2/2 check...	No alar...	us-east-2a	-	52.14.150...

5. subnet screen

The screenshot shows the AWS VPC Dashboard. On the left, there's a sidebar with various VPC-related options like Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, and Peering Connections. The main area displays a table of subnets:

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	Availability Zone	Availability Zone ID	Route
zomboooie	subnet-02ce52f8b724c51d2	available	vpc-07b4517aa83c608e5 ...	172.16.0.0/24	250	-	us-east-2a	use2-az1	rtb-081
	subnet-0747475	available	vpc-4e46e625	172.31.16.0/20	4091	-	us-east-2b	use2-az2	rtb-81
	subnet-b50383	available	vpc-4e46e625	172.31.32.0/20	4091	-	us-east-2c	use2-az3	rtb-81
	subnet-f6ea504	available	vpc-4e46e625	172.31.0.0/20	4091	-	us-east-2a	use2-az1	rtb-81

Below the table, a specific subnet (subnet-02ce52f8b724c51d2) is selected, and its details are shown in a modal window:

Description	Flow Logs	Route Table	Network ACL	Tags	Sharing
Subnet ID: subnet-02ce52f8b724c51d2 VPC: vpc-07b4517aa83c608e5 zomboooie Available IPv4 Addresses: 250 Availability Zone: us-east-2a (use2-az1) Network ACL: ad-062a17d589f695fde Auto-assign public IPv4 address: Yes Customer-owned IPv4 pool: - Outpost ID: -	State: available IPv4 CIDR: 172.16.0.0/24 IPv6 CIDR: - Route Table: rtb-088777199a50af65c dora Default subnet: No Auto-assign customer-owned IPv4 address: No Auto-assign IPv6 address: No Owner: 150651090858				

This screenshot is similar to the one above but shows a different tab selected: "Route Table". The modal window now displays the "Edit route table association" section, which lists the route table (rtb-088777199a50af65c | dora) and its associations:

Destination	Target
172.16.0.0/16	local
0.0.0.0/0	igw-02d5bbbe3f9ec87a2

ROUTE TABLE

The screenshot shows the AWS VPC Route Table list page. On the left, there's a navigation sidebar with options like 'Your VPCs', 'Subnets', 'Route Tables', and 'Security'. The main area has a search bar and a table with three rows. The first row is unselected, the second row ('dora') is selected, and the third row is unselected. The table columns include Name, Route Table ID, Explicit subnet association, Edge associations, Main, VPC ID, and Owner. Below the table, a summary card provides details about the selected route table ('rtb-088777199a50af65c'), including its Route Table ID, Main status (Yes), and VPC information.

Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
rtb-0022171b0612845f9	-	-	-	No	vpc-07b4517aa83c608e5 ...	150651090858
dora	rtb-088777199a50af65c	-	-	Yes	vpc-07b4517aa83c608e5 ...	150651090858
rtb-f81d7693	-	-	-	Yes	vpc-4e46e525	150651090858

This screenshot shows the same VPC Route Table list page, but the 'Routes' tab is selected. It displays a table with two rows. The first row is unselected, and the second row ('dora') is selected. The table columns are Destination, Target, Status, and Propagated. The 'View' dropdown is set to 'All routes'. The table shows two entries: one for '172.16.0.0/16' with a local target and active status, and another for '0.0.0.0/0' with an internet gateway target and active status.

Destination	Target	Status	Propagated
172.16.0.0/16	local	active	No
0.0.0.0/0	igw-02dfbbbe3f9ec87a2	active	No

AWS Route Tables | VPC | IAM Management | Billing Management | Using versioning | AWS EC2 Instances | AWS Certified Solutions Architect | AWS ASSIGNMENT | (3563) Yaad | +

<https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTables:sort=routeTableId>

New VPC Experience Tell us what you think

VPC Dashboard New Filter by VPC Select a VPC

VIRTUAL PRIVATE CLOUD

- Your VPCs New
- Subnets
- Route Tables**
- Internet Gateways New
- Egress Only Internet Gateways New
- DHCP Options Sets New
- Elastic IPs New
- Managed Prefix Lists New
- Endpoints
- Endpoint Services
- NAT Gateways New
- Peering Connections

SECURITY

- Network ACLs

Feedback English (US)

Type here to search

ROUTE TABLES: rtb-0022171b0612845f9 | rtb-088777199a50af65c | rtb-f8f1d7693

Create route table Actions

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
rtb-0022171b0612845f9	-	-	-	No	vpc-07b4517aa83c608e5 ...	150651090858
dora	rtb-088777199a50af65c	-	-	Yes	vpc-07b4517aa83c608e5 ...	150651090858
rtb-f8f1d7693	-	-	-	Yes	vpc-4e46af25	150651090858

ROUTE SIDES: rtb-0022171b0612845f9 | rtb-088777199a50af65c | rtb-f8f1d7693

Summary Routes Subnet Associations Edge Associations Route Propagation Tags

Edit subnet associations

Subnet ID IPv4 CIDR IPv6 CIDR

You do not have any subnet associations.

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-02ce52fb724c51d2	172.16.0.0/24	-

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awsuser_14 Ohio Support

AWS Services

New EC2 Experience Tell us what you think

EC2 Dashboard New Filter by VPC Select a VPC

Events New

Tags

Limits

Instances

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

Images

- AMIs

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Feedback English (US)

Type here to search

EC2 > Instances > i-0f3242b61579d6736

Instance summary for i-0f3242b61579d6736 (OWN VPC) Info

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0f3242b61579d6736 (OWN VPC)	52.14.150.196 open address	172.16.0.131
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	-	ip-172-16-0-131.us-east-2.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.micro	-	vpc-07b4517aa83c608e5 (zombo)
IAM Role	Subnet ID	
-	subnet-02ce52fb724c51d2 (zomboee)	

AWS Compute Optimizer Opt-in to AWS Compute Optimizer for recommendations. Learn more

Details Security Networking Storage Monitoring Tags

Instance details Info

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New VPC Experience Tell us what you think

VPC Dashboard New Filter by VPC Select a VPC

VIRTUAL PRIVATE CLOUD

- Your VPCs New
- Subnets
- Route Tables
- Internet Gateways New
- Egress Only Internet Gateways New
- DHCP Options Sets New
- Elastic IPs New
- Managed Prefix Lists New
- Endpoints
- Endpoint Services
- NAT Gateways New
- Peering Connections

SECURITY

- Network ACLs

Your VPCs (1/2) Info

Filter VPCs

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	IPv6 pool
zombo	vpc-07b4517aa83c608e5	Available	172.16.0.0/16	-	-
-	vpc-4e46af25	Available	172.21.0.0/16	-	-

vpc-07b4517aa83c608e5 / zombo

Details CIDs Flow logs Tags

Details

VPC ID vpc-07b4517aa83c608e5	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP options set dopt-b7a723dc	Route table rtb-088777199a50af65c / dora	Network ACL acl-062a17dd89fb65fde
Default VPC No	IPv4 CIDR 172.16.0.0/16	IPv6 pool -	IPv6 CIDR -
Owner ID			

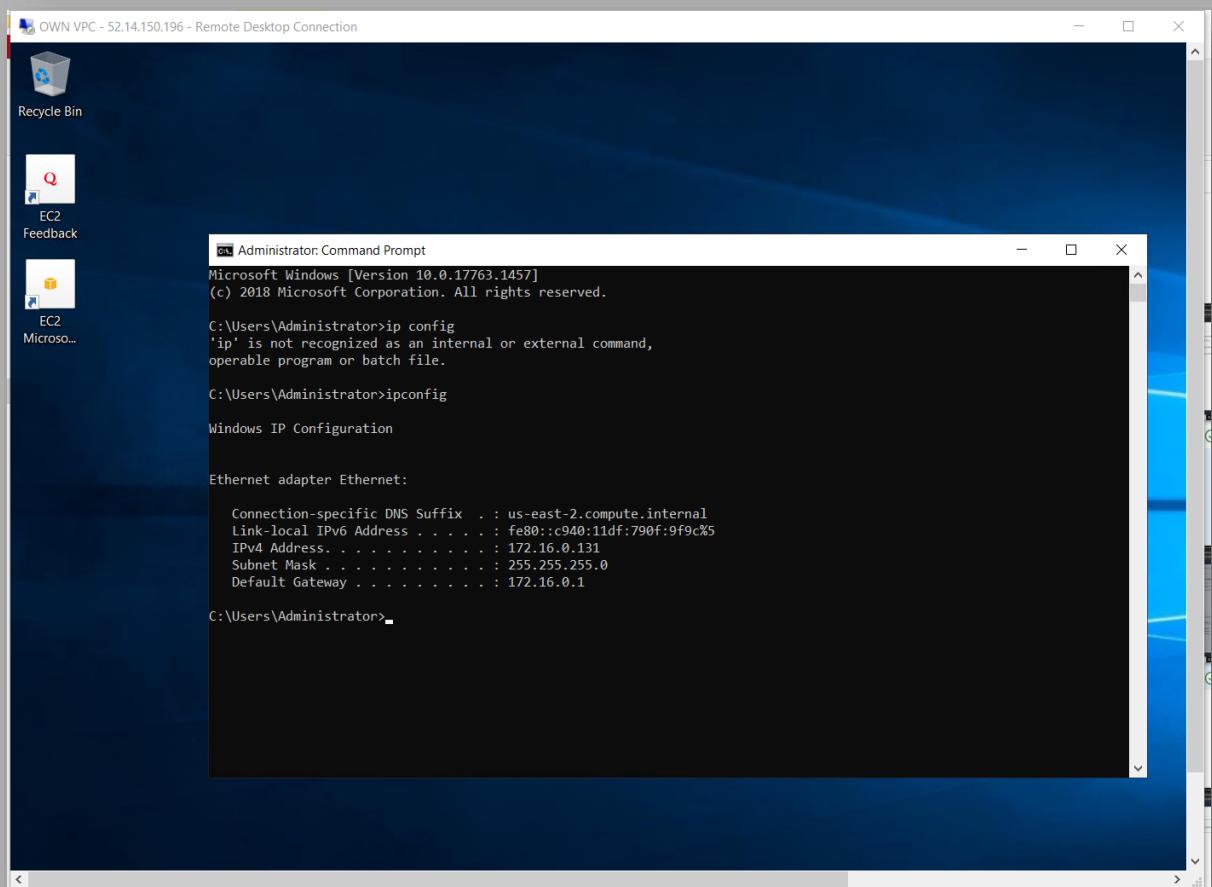
: igw with vpc associated

The screenshot shows the AWS VPC Internet Gateways page. The left sidebar has sections for New VPC Experience, VPC Dashboard, Filter by VPC, Select a VPC, VIRTUAL PRIVATE CLOUD (Your VPCs, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, Peering Connections), and SECURITY (AWS CloudTrail, AWS CloudWatch Metrics, AWS CloudWatch Logs, AWS CloudWatch Metrics Insights). The main content area shows a table titled "Internet gateways (1/2) Info". The table has columns: Name, Internet gateway ID, State, VPC ID, and Owner. It lists two entries: "gongatee" (id: igw-02d5bbe3f9ec87a2, State: Attached, VPC ID: vpc-07b4517aa83c608e5 | zombo, Owner: 150651090858) and "igw-ae2d61c6" (id: igw-ae2d61c6, State: Attached, VPC ID: vpc-4e46e525, Owner: 150651090858). Below the table, there is a detailed view for "igw-02d5bbe3f9ec87a2 / gongatee" with tabs for Details and Tags, and a "Details" section showing Internet gateway ID, State, VPC ID, and Owner.

Name	Internet gateway ID	State	VPC ID	Owner
gongatee	igw-02d5bbe3f9ec87a2	Attached	vpc-07b4517aa83c608e5 zombo	150651090858
-	igw-ae2d61c6	Attached	vpc-4e46e525	150651090858

AND FINALLY MAIN SCREEN OUTPUT OUR OWN VPC

Task 6: Check ipconfig in VM command prompt-cmd prompt: ipconfig



PROJECT 1:

- Working with IAM Roles with S3 and bootstrapping with EC2

Task 3: Hosting a webpage using the bootstrap script on ec2.

Create an IAM role(instance name demo3)

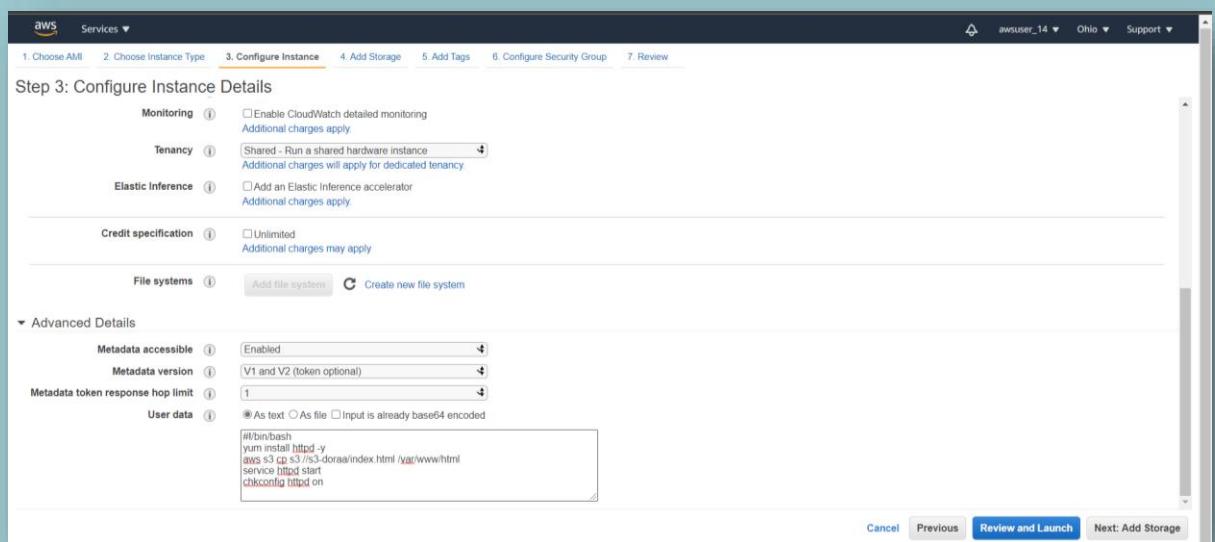
Create a bucket and upload index.html(In index.html - Welcome to my webpage)

Create a Linux instance with the above role and use this bootstrap script.

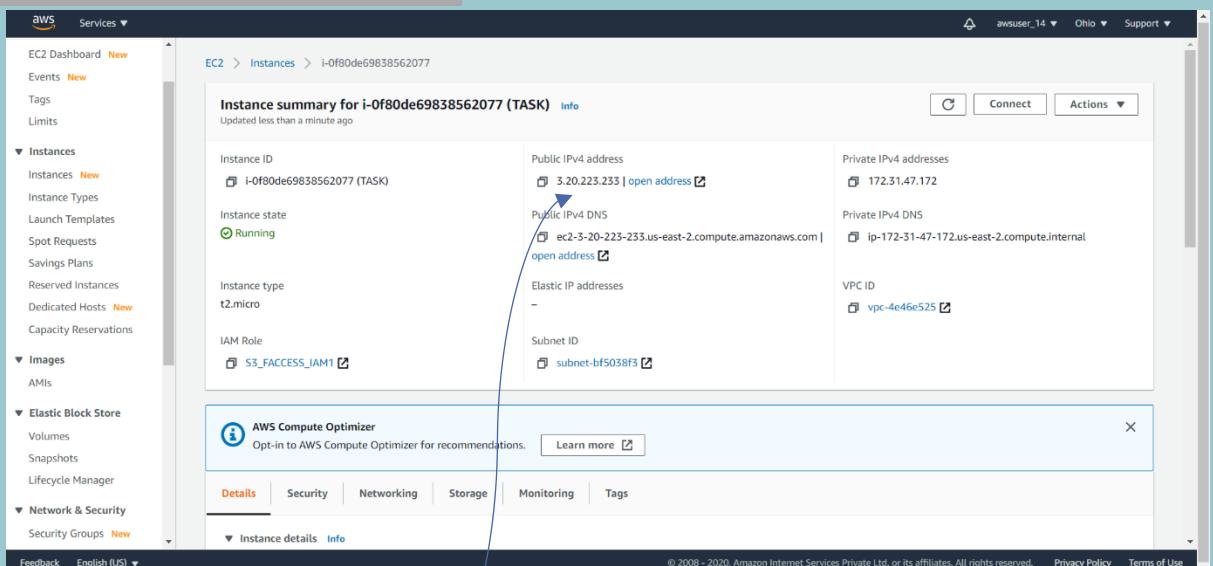
The screenshot shows the 'Review' step of creating an IAM role. The role name is 'S3_FACCESS_IAM1'. The role description is 'Allows EC2 instances to call AWS services on your behalf.' Under 'Trusted entities', it lists 'AWS service: ec2.amazonaws.com'. Under 'Policies', there is a single policy 'AmazonS3FullAccess'. The 'Permissions boundary' section indicates 'Permissions boundary is not set'. A key tag 'ACCESSION1' with value 'S3_ACCESS1' is listed under 'The new role will receive the following tag'. At the bottom, there are 'Cancel', 'Previous', and 'Create role' buttons.

The screenshot shows the 'Overview' tab for the 'doraa' bucket. It displays a single file 'index.html' with a size of 0 B and a last modified date of Oct 16, 2020 6:59:43 PM GMT+0530. The bucket is located in 'US East (Ohio)'. The top navigation bar shows 'Amazon S3 > doraa' and the user 'awsuser_14'.

- Initialize the IAM role & then put a script in USER DATA section.



- Launched an instance.



Then connecting,

✓ Copying public address

❖ Output-

