



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, and 3 roles), 'Security alerts' (warning about MFA), and 'Best practices'. A large green callout bubble on the right contains the handwritten note: '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 through 4 are at the top right.

- 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 | Create new directory |
| IAM role | None None S3_FACCESS_IAM | Create new IAM role |
| Shutdown behavior | <input type="checkbox"/> Enable hibernation as an additional stop behavior | |
| Stop - Hibernate behavior | <input type="checkbox"/> Protect against accidental termination | |
| Enable termination protection | <input type="checkbox"/> Enable CloudWatch detailed monitoring <small>Additional charges apply.</small> | |
| Monitoring | | |
| 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 console interface. 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 search bar for "Search for buckets" and buttons for "+ Create bucket", "Edit public access settings", "Empty", and "Delete". Below these are sections for "Buckets" and "Regions". A table lists one bucket: "Bucket name" is "bucketiam", "Access" is "Public", "Region" is "US East (N. Virginia)", and "Date created" is "Oct 15, 2020 5:23:48 PM GMT+0530". A note at the top says "We've temporarily re-enabled the previous version of the S3 console while we continue to improve the new S3 console experience. Switch to the new console." There are also "Discover the console" and "All access types" dropdowns.

The screenshot shows the AWS EC2 Instances page. The sidebar includes "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)" with the status "Running". The table provides details: Instance ID (i-0bd8a98e39b7dc96a), Public IPv4 address (3.15.18.40), Private IPv4 addresses (172.31.4.165), Instance state (Running), Public IPv4 DNS (ec2-3-15-18-40.us-east-2.compute.amazonaws.com), Private IPv4 DNS (ip-172-31-4-165.us-east-2.compute.internal), Instance type (t2.micro), Elastic IP addresses (-), IAM Role (S3_FACCESS_IAM), Subnet ID (subnet-ff6ea594), and VPC ID (vpc-4e46e525). Below the table, 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, tabs for "Details" (which is selected), Security, Networking, Storage, Monitoring, and Tags are visible.

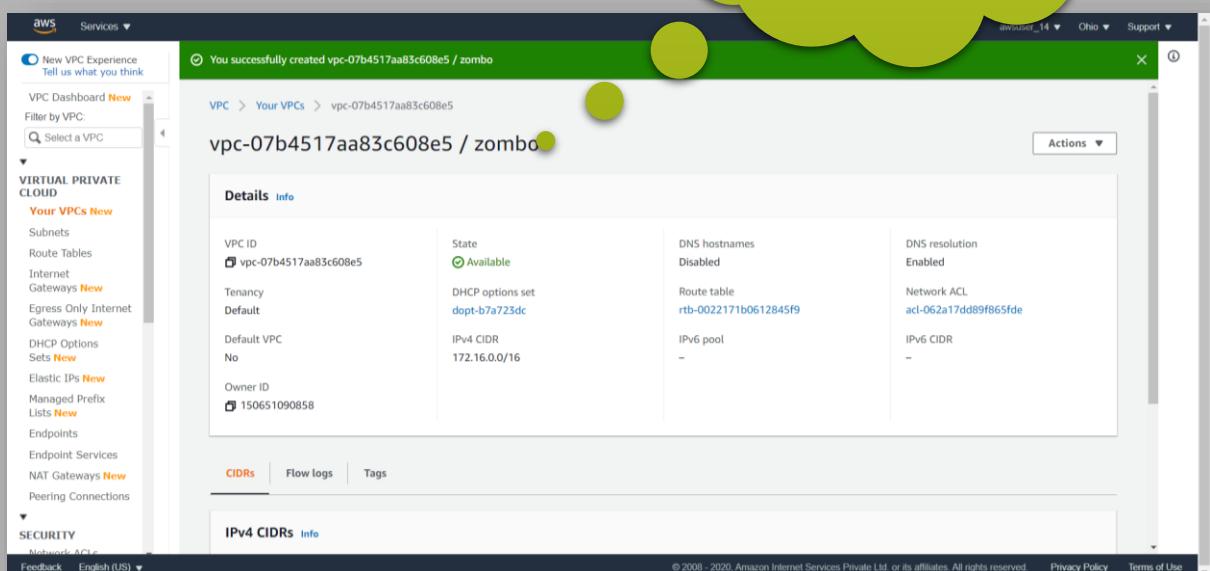
PROJECT 2:

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. It starts with a summary step: 'Create internet gateway' (Info). It then moves to the 'Internet gateway settings' step, where a 'Name tag' is specified as 'gon gatee'. In the 'Tags - optional' step, a single tag 'gon gatee' is added with a value 'gon gatee'. At the bottom, there are 'Cancel' and 'Create internet gateway' buttons.

- **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: 'The following internet gateway was created: igw-02d5bbbe3f9ec87a2. You can now attach to a VPC to enable the VPC to communicate with the internet.' and a 'Attach to a VPC' button.

- **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, showing the gateway's ID, state, VPC ID, and owner.

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 <input type="text" value="igw-02d5bbbe3f9ec87a2"/> | State <input checked="" type="button" value="Attached"/> | VPC ID <input type="text" value="vpc-07b4517aa83c608e5 zombo"/> | Owner <input type="text" value="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 'Summary' tab is selected, showing the route table ID (rtb-088777199a50af65c), owner (150651090858), and VPC (vpc-07b4517aa83c608e5 | zombo).
- Screenshot 3:** Shows the 'Actions' menu for the 'dora' route table. The 'Set Main Route Table' option is highlighted. A confirmation dialog box titled 'Set Main Route Table' asks, 'Are you sure you want to set this route table as the main route table? (rtb-088777199a50af65c dora)'. The 'OK' button is visible at the bottom right of the dialog.

● SETTING ROUTE TABLE AS A MAIN

This screenshot shows the 'Set Main Route Table' confirmation dialog box from the previous screenshot. The dialog box 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 with a blue border.

The screenshot shows the AWS VPC Route Tables page. On the left, there's a sidebar with navigation links for VPC Dashboard, 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 shows a table of route tables with columns for Name, Route Table ID, Explicit subnet association, Edge associations, Main, VPC ID, and Owner. One route table is selected, showing its details: Route Table ID: rtb-088777199a50af65c, Main: Yes, VPC: vpc-07b4517aa83c608e5 | zombo. The table has 3 items.

- **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. Fields include: Name tag (zombooliee), VPC (vpc-07b4517aa83c608e5), Availability Zone (No preference), VPC CIDRs (CIDR: 172.16.0.0/16, Status: associated), and IPv4 CIDR block (172.16.0.0/24). A note says 'Required'. At the bottom are 'Cancel' and 'Create' buttons.

THEN,

The screenshot shows the 'Modify auto-assign IP settings' page. It enables the auto-assign IP address setting for a subnet. Fields include: Subnet ID (subnet-02ce52f8b724c51d2), Auto-assign IPv4 (checked, with 'Enable auto-assign public IPv4 address' checked), and Auto-assign Co-IP (unchecked, with 'Enable auto-assign customer-owned IPv4 address' unchecked). A note says 'Required'. 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 | <input type="checkbox"/> Request Spot instances | |
| Network | vpc-4e46e525 (default) | <input type="button"/> Create new VPC |
| Subnet | vpc-07b4517aa83c608e5 zombo | <input type="button"/> Create new subnet |
| Auto-assign Public IP | <input type="button"/> Use subnet setting (Enable) | |
| Placement group | <input type="checkbox"/> Add instance to placement group | |
| Capacity Reservation | Open | |
| Domain join directory | No directory | <input type="button"/> Create new directory |
| IAM role | None | <input type="button"/> Create new IAM role |
| Shutdown behavior | Stop | |
| Stop - Hibernate behavior | <input type="checkbox"/> Enable hibernation as an additional stop behavior | |
| Enable termination protection | <input type="checkbox"/> Protect against accidental termination | |
| Monitoring | <input type="checkbox"/> Enable CloudWatch detailed monitoring Additional charges apply | |
| Tenancy | Shared - Run a shared hardware instance | |

Cancel Previous Review and Launch Next: Add Storage

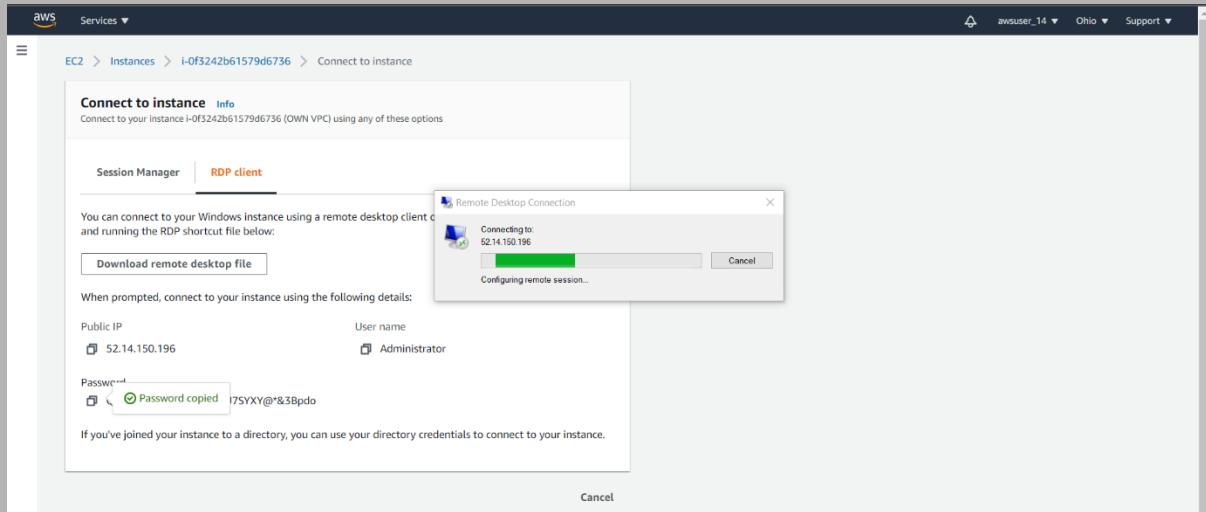
Step 3: Configure Instance Details

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 | <input type="checkbox"/> Request Spot instances | |
| Network | vpc-4e46e525 (default) | <input type="button"/> Create new VPC |
| Subnet | vpc-07b4517aa83c608e5 zombo | <input type="button"/> Create new subnet |
| Auto-assign Public IP | <input type="button"/> Use subnet setting (Enable) | |
| Placement group | <input type="checkbox"/> Add instance to placement group | |
| Capacity Reservation | Open | |
| Domain join directory | No directory | <input type="button"/> Create new directory |
| IAM role | None | <input type="button"/> Create new IAM role |
| Shutdown behavior | Stop | |
| Stop - Hibernate behavior | <input type="checkbox"/> Enable hibernation as an additional stop behavior | |
| Enable termination protection | <input type="checkbox"/> Protect against accidental termination | |
| Monitoring | <input type="checkbox"/> 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-0da59a906da3835d' AMI ID. The Public IPv4 address is 52.14.150.196 and the Private IPv4 address is 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. The instance was launched from subnet 02ce52fb724c51d2 (zomboice).

| 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 navigation links for VPCs, Subnets, 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. A specific subnet, 'zomboobee', is selected and shown in a detailed view below the table.

| Name | Subnet ID | State | VPC | IPv4 CIDR | Available IPv4 | IPv6 CIDR | Availability Zone | Availability Zone ID | Route |
|-----------|--------------------------|-----------|---------------------------|----------------|----------------|-----------|-------------------|----------------------|---------|
| zomboobee | 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 |

Subnet: subnet-02ce52f8b724c51d2

Description: Subnet ID: subnet-02ce52f8b724c51d2, VPC: vpc-07b4517aa83c608e5 | zomboobee, 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-08777199a50af65c | 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 the 'Route Table' tab is selected for the subnet 'zomboobee'. It shows the route table association for this subnet.

| 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 selected route table ('dora') has two entries: one for '172.16.0.0/16' pointing to 'local' with 'active' status and 'No' propagation, and another for '0.0.0.0/0' pointing to 'igw-02dfbbbe3f9ec87a2' with 'active' status and 'No' propagation.

| 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

Feedback English (US)

Type here to search

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 (selected), Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, and Peering Connections. The SECURITY section is partially visible. 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, a specific gateway is selected: "igw-02d5bbe3f9ec87a2 / gongatee". The "Details" tab is selected, showing the Internet gateway ID (igw-02d5bbe3f9ec87a2), State (Attached), VPC ID (vpc-07b4517aa83c608e5 | zombo), and Owner (150651090858).

AND FINALLY MAIN SCREEN OUTPUT OUR OWN VPC

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

