

Lab 12

VPC Peering Lab – 2 of 3

In Ohio region, we need to create VPC.

The screenshot displays the AWS VPC Dashboard in the Ohio region. The left sidebar contains a navigation menu with categories like Virtual Private Cloud, Security, and VPN Connections. The main area shows a table with one VPC entry. Above the table, there is a search bar and a 'Create VPC' button. The table has columns for Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, DHCP options set, Route table, and Network. The single entry has the name 'vpc-1de10e75', VPC ID 'vpc-1de10e75', and state 'available'.

| Name | VPC ID | State | IPv4 CIDR | IPv6 CIDR | DHCP options set | Route table | Network |
|------|--------------|-----------|---------------|-----------|------------------|--------------|------------|
| | vpc-1de10e75 | available | 172.31.0.0/16 | | dopt-5205f83a | rtb-e0f42188 | acl-94fc3f |

Click “Create VPC”.

While creating VPC, type name tag as “Sansbound VPC Ohio” and IPV4 CIDR Block as 192.168.0.0/16 subnet.

Create VPC

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an Amazon-provided IPv6 CIDR block with the VPC.

Name tag

Sansbound_VPC_Ohio

i

IPv4 CIDR block*

192.168.0.0/16

i

IPv6 CIDR block*

☒ No IPv6 CIDR Block

☐ Amazon provided IPv6 CIDR block

i

Tenancy

Default

i

Cancel

Yes, Create

Then click “Yes, create”.

Then we need to create subnet for “Sansbound VPC Ohio” VPC.

The screenshot shows the AWS Management Console interface for the VPC Subnets page. The 'Create Subnet' button is highlighted in yellow. The page displays a table of subnets for VPC vpc-1de10e75. The table has columns for Name, Subnet ID, State, VPC, IPv4 CIDR, Available IPv4, and IPv6 CIDR. There are three subnets listed, all in an 'available' state.

| Name | Subnet ID | State | VPC | IPv4 CIDR | Available IPv4 | IPv6 CIDR |
|------|-----------------|-----------|--------------|----------------|----------------|-----------|
| | subnet-35314778 | available | vpc-1de10e75 | 172.31.32.0/20 | 4091 | |
| | subnet-6888bf13 | available | vpc-1de10e75 | 172.31.16.0/20 | 4091 | |
| | subnet-1caa5974 | available | vpc-1de10e75 | 172.31.0.0/20 | 4091 | |

Click “Create Subnet”.

While creating Subnet, name tag as “Sansbound_Ohio_Public_Subnet”, VPC as Sansbound_VPC_Ohio, Availability Zone – 2b (optional) and IPV4 CIDR block as “192.168.2.0/24” subnet.

Create Subnet ✕

Use the CIDR format to specify your subnet's IP address block (e.g., 10.0.0.0/24). Note that block sizes must be between a /16 netmask and /28 netmask. Also, note that a subnet can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag ⓘ

VPC ⓘ

VPC CIDRs

| CIDR | Status | Status Reason |
|----------------|------------|---------------|
| 192.168.0.0/16 | associated | |

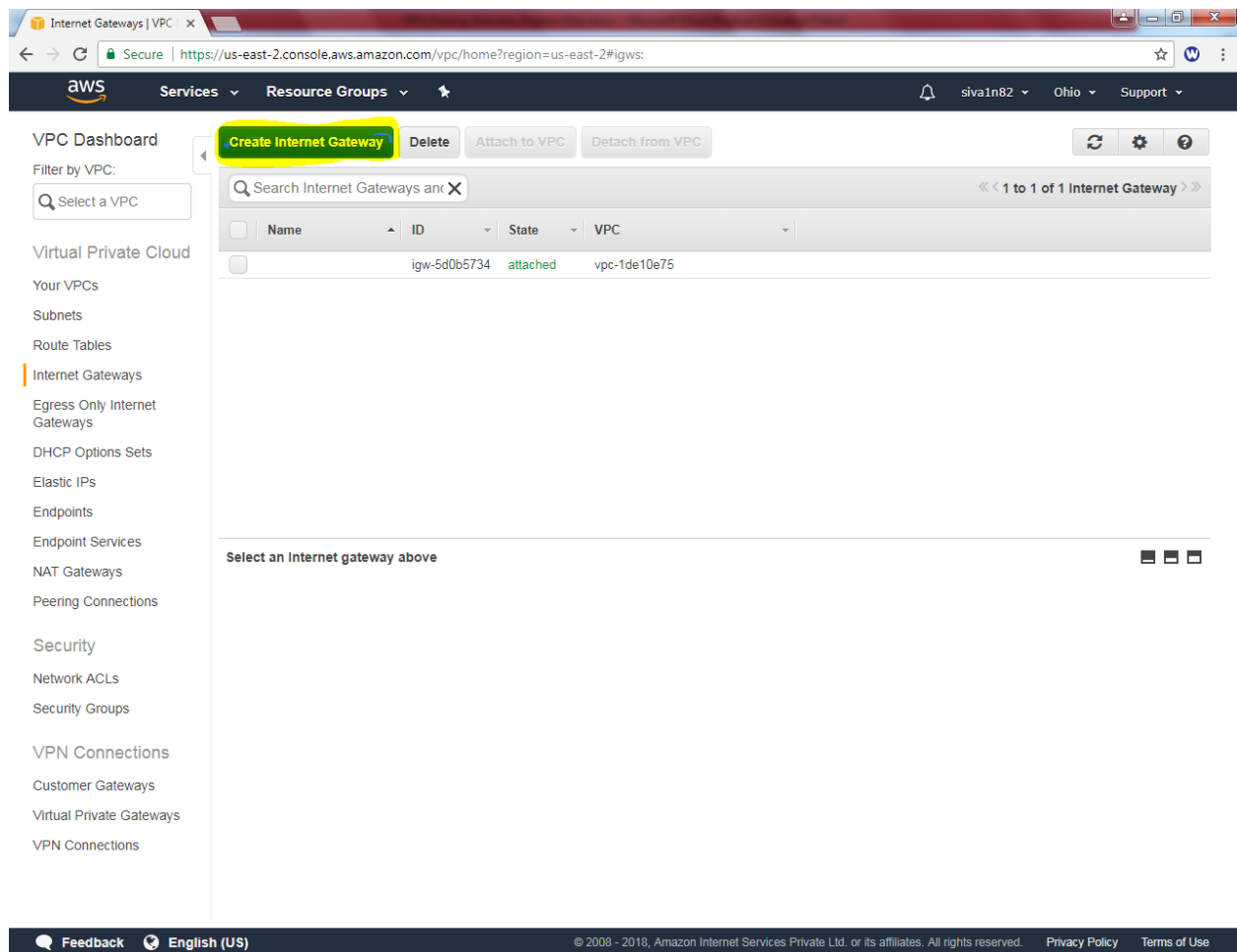
Availability Zone ⓘ

IPv4 CIDR block ⓘ

[Cancel](#) [Yes, Create](#)

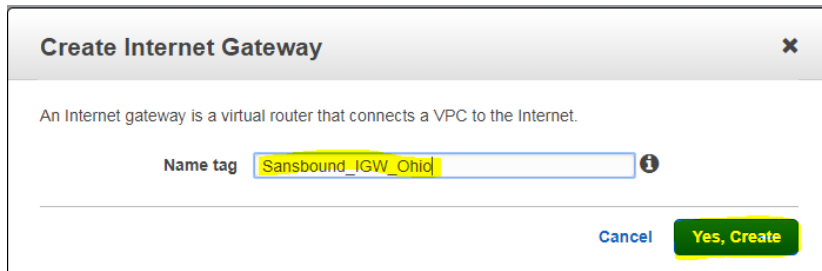
Then click “Yes, create”.

We have required to create an internet gateway.



Click “Create Internet Gateway”

While creating Internet Gateway, name tag as “Sansbound_IGW_Ohio”.



The screenshot shows a dialog box titled "Create Internet Gateway" with a close button (X) in the top right corner. Below the title bar, there is a descriptive text: "An Internet gateway is a virtual router that connects a VPC to the Internet." Below this text is a "Name tag" label followed by a text input field containing the text "Sansbound_IGW_Ohio". To the right of the input field is an information icon (i). At the bottom of the dialog, there are two buttons: "Cancel" and "Yes, Create".

Click "Yes , create".

Now internet gateway is in detached mode. We need to attach to Sansbound_VPC_Ohio VPC.

The screenshot shows the AWS VPC Dashboard. On the left is a navigation menu with categories like VPC Dashboard, Virtual Private Cloud, Security, and VPN Connections. The main area displays a table of Internet Gateways. The table has columns for Name, ID, State, and VPC. One gateway, 'Sansbound_IGW_Ohio' with ID 'igw-27b2874e', is shown with a state of 'detached'. Above the table, buttons for 'Create Internet Gateway', 'Delete', 'Attach to VPC' (highlighted in yellow), and 'Detach from VPC' are visible. Below the table, the details for the selected gateway are shown, including its ID and the fact that it is detached from any VPC.

| Name | ID | State | VPC |
|--------------------|--------------|----------|-----|
| Sansbound_IGW_Ohio | igw-27b2874e | detached | |

igw-27b2874e | Sansbound_IGW_Ohio

Summary | Tags

ID: igw-27b2874e | Sansbound_IGW_Ohio
State: detached
Attached VPC ID:
Attachment state:

The 'Attach to VPC' dialog box is shown. It contains a message: 'Attach an Internet gateway to a VPC to enable communication with the Internet.' Below this is a 'VPC' dropdown menu currently showing 'vpc-805a92e8 | Sansbound_VPC_Ohio'. At the bottom right, there are two buttons: 'Cancel' and 'Yes, Attach' (highlighted in yellow).

Then click “Yes attach”.

Type the route table value as sansbound_ohio_public

The screenshot shows the AWS VPC console interface. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, Your VPCs, Subnets, Route Tables (selected), Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, Security, Network ACLs, Security Groups, VPN Connections, Customer Gateways, Virtual Private Gateways, and VPN Connections.

The main content area displays the 'Route Tables' page. At the top, there are buttons for 'Create Route Table', 'Delete Route Table', and 'Set As Main Table'. Below these is a search bar and a table listing route tables. The table has columns: Name, Route Table ID, Explicitly Associated, Main, and VPC. Two route tables are listed: 'rtb-e0f42188' and 'Sansbound_ohio_public' (selected). The 'Sansbound_ohio_public' route table is associated with 'vpc-805a92e8' and is the main route table.

Below the table, the details for the selected route table 'rtb-1374ca7b' are shown. The 'Summary' tab is active, displaying the following information:

- Route Table ID: rtb-1374ca7b | Sansbound_ohio_public_route
- Main: yes
- Explicitly Associated With: 0 Subnets
- VPC: vpc-805a92e8 | Sansbound_VPC_Ohio

The bottom of the console shows a footer with 'Feedback', 'English (US)', and copyright information: '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

In Route table, route option click **“Edit”**.

The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, and various network services. The main content area displays a list of route tables. The selected route table, 'rtb-1374ca7b', is shown in detail with the 'Routes' tab active. The 'Edit' button is highlighted with a yellow box.

Route Tables List:

| Name | Route Table ID | Explicitly Associat | Main | VPC |
|-----------------------|----------------|---------------------|------|-----------------------------------|
| Sansbound_ohio_public | rtb-1374ca7b | 0 Subnets | Yes | vpc-805a92e8 Sansbound_VPC_Ohio |

Route Details for rtb-1374ca7b | Sansbound_ohio_public_route:

View: All rules

| Destination | Target | Status | Propagated |
|----------------|--------|--------|------------|
| 192.168.0.0/16 | local | Active | No |

Click “Add another route”

The screenshot displays the AWS Management Console interface for Route Tables. The left-hand navigation pane includes sections for VPC Dashboard, Virtual Private Cloud, Security, and VPN Connections. The main area shows a list of route tables. The selected route table, 'rtb-1374ca7b', is detailed below, showing its routes. A yellow highlight is placed on the 'Add another route' button.

Route Tables List:

| Name | Route Table ID | Explicitly Associat | Main | VPC |
|-----------------------|----------------|---------------------|------|-----------------------------------|
| Sansbound_ohio_public | rtb-1374ca7b | 0 Subnets | Yes | vpc-805a92e8 Sansbound_VPC_Ohio |

Route Details for rtb-1374ca7b | Sansbound_ohio_public_route:

View: All rules

| Destination | Target | Status | Propagated | Remove |
|----------------|--------|--------|------------|--------|
| 192.168.0.0/16 | local | Active | No | |

Add another route

Type default route 0.0.0.0/0 and select igw-* in target.

The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains the VPC Dashboard and various VPC resources. The main content area displays a list of route tables, with 'Sansbound_ohio_public' selected. Below the list, the 'Routes' tab for 'rtb-1374ca7b | Sansbound_ohio_public_route' is active. A table shows existing routes, and a new route is being added with destination '0.0.0.0/0' and target 'igw-27b2874e'. The 'Save' button is highlighted in green.

| Name | Route Table ID | Explicitly Associat | Main | VPC |
|-----------------------|----------------|---------------------|------|-----------------------------------|
| | rtb-e0f42188 | 0 Subnets | Yes | vpc-1de10e75 |
| Sansbound_ohio_public | rtb-1374ca7b | 0 Subnets | Yes | vpc-805a92e8 Sansbound_VPC_Ohio |

| Destination | Target | Status | Propagated | Remove |
|----------------|--------------|--------|------------|--------|
| 192.168.0.0/16 | local | Active | No | |
| 0.0.0.0/0 | igw-27b2874e | Active | No | |

Then click “save”.

In Subnet Associations, click “Edit” option.

The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, Your VPCs, Subnets, Route Tables (highlighted), Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, Security, Network ACLs, Security Groups, VPN Connections, Customer Gateways, Virtual Private Gateways, and VPN Connections.

The main content area displays a list of Route Tables. The table has columns: Name, Route Table ID, Explicitly Associated, Main, and VPC. The selected route table is 'Sansbound_ohio_public' with ID 'rtb-1374ca7b'.

Below the table, the details for 'rtb-1374ca7b | Sansbound_ohio_public_route' are shown. The 'Subnet Associations' tab is active, displaying a table with columns: Subnet, IPv4 CIDR, and IPv6 CIDR. The message states: '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:'. The table lists 'subnet-a5dbcede | Sansbound_Ohio_Public_Subnet' with IPv4 CIDR '192.168.2.0/24'.

The 'Edit' button is highlighted in yellow.

In Subnet association edit option, select the check box of Sandbound_Ohio_Public_Subnet.

The screenshot shows the AWS Management Console interface for the 'Route Tables' section. The left sidebar contains a navigation menu with categories like VPC Dashboard, Virtual Private Cloud, Security, and VPN Connections. The main content area displays a list of route tables. The selected route table, 'rtb-1374ca7b | Sansbound_ohio_public_route', is shown in detail with the 'Subnet Associations' tab active. A table lists the associated subnets, including 'subnet-a5dbcede | Sansbound_Ohio_Public_Subnet' with an IPv4 CIDR of '192.168.2.0/24'. The 'Save' button is highlighted in yellow.

Route Tables | VPC Manager

Secure | https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#routetables:

aws Services Resource Groups siva1n82 Ohio Support

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

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Security

Network ACLs

Security Groups

VPN Connections

Customer Gateways

Virtual Private Gateways

VPN Connections

Create Route Table Delete Route Table Set As Main Table

Search Route Tables and their

<< 1 to 2 of 2 Route Tables >>

| Name | Route Table ID | Explicitly Associat | Main | VPC |
|-----------------------|----------------|---------------------|------|-----------------------------------|
| Sansbound_ohio_public | rtb-1374ca7b | 0 Subnets | Yes | vpc-805a92e8 Sansbound_VPC_Ohio |

rtb-1374ca7b | Sansbound_ohio_public_route

Summary Routes Subnet Associations Route Propagation Tags

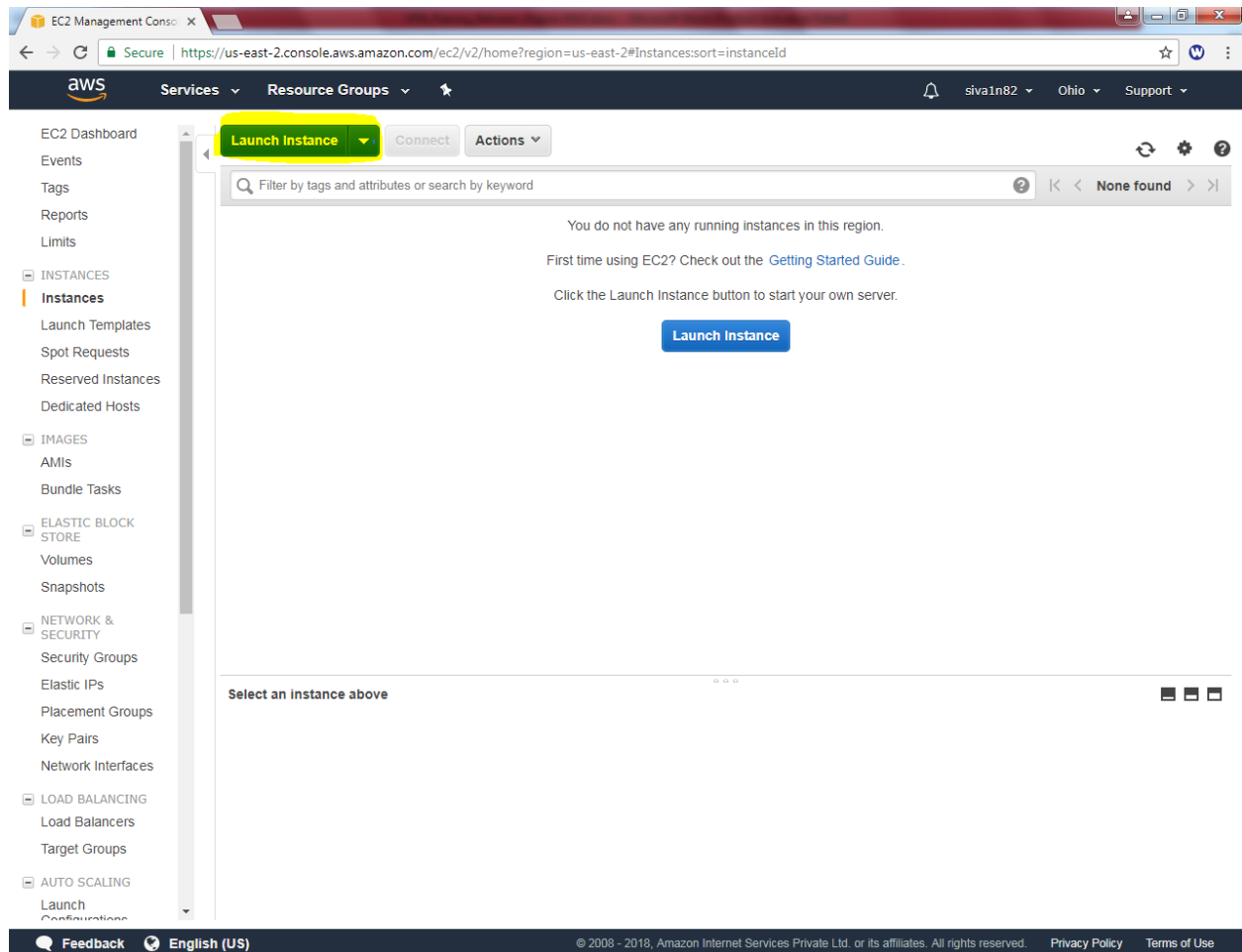
Cancel Save

| Associate | Subnet | IPv4 CIDR | IPv6 CIDR | Current Route Table |
|-------------------------------------|--|----------------|-----------|---------------------|
| <input checked="" type="checkbox"/> | subnet-a5dbcede Sansbound_Ohio_Public_Subnet | 192.168.2.0/24 | - | Main |

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Then click "Save".

Now we need to create an instance in Ohio Region.



Select Microsoft Windows Server 2016 base

The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard'. The browser address bar indicates the URL: <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:>. The console header shows the AWS logo, navigation tabs (Services, Resource Groups), and user information (siva1n82, Ohio, Support).

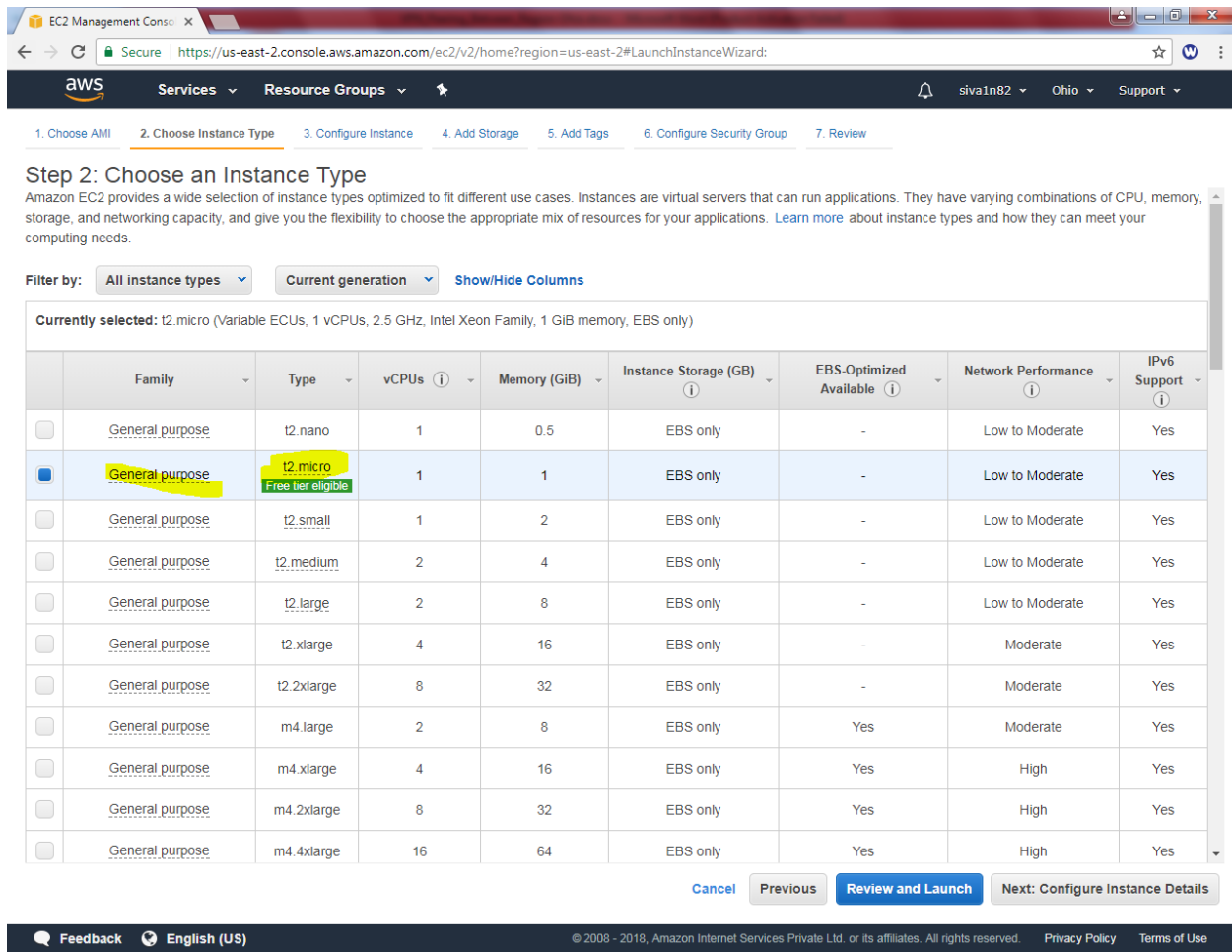
The main content area is titled 'Step 1: Choose an Amazon Machine Image (AMI)'. It features a progress bar at the top with steps: 1. Choose AMI (active), 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review. A 'Cancel and Exit' link is in the top right corner.

The AMI selection list includes:

- SUSE Linux** (Free tier eligible): SUSE Linux Enterprise Server 12 SP3 (HVM), SSD Volume Type - ami-75143f10. Root device type: ebs, Virtualization type: hvm. 64-bit. [Select]
- Red Hat** (Free tier eligible): Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type - ami-0b1e356e. Root device type: ebs, Virtualization type: hvm. 64-bit. [Select]
- Amazon RDS** (Promotional banner): Are you launching a database instance? Try Amazon RDS. Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale your database on AWS by automating time-consuming database management tasks. With RDS, you can easily deploy **Amazon Aurora, MariaDB, MySQL, Oracle, PostgreSQL, and SQL Server** databases on AWS. *Aurora* is a MySQL- and PostgreSQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. [Learn more about RDS](#). [Launch a database using RDS]
- Windows** (Free tier eligible): Microsoft Windows Server 2016 Base - ami-89cce7ec. Root device type: ebs, Virtualization type: hvm. 64-bit. [Select]
- Deep Learning AMI (Ubuntu)** (Free tier eligible) - ami-69f6df0c. Latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe2, PyTorch, Theano, CNTK, Keras. Root device type: ebs, Virtualization type: hvm. 64-bit. [Select]
- Deep Learning AMI (Amazon Linux)** (Free tier eligible) - ami-72f4dd17. Latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe2, PyTorch, Theano, CNTK, Keras. 64-bit. [Select]

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Select "t2.micro".



Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: **All instance types** **Current generation** [Show/Hide Columns](#)

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

| | Family | Type | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance | IPv6 Support |
|-------------------------------------|-----------------|--------------------------------|-------|--------------|-----------------------|-------------------------|---------------------|--------------|
| <input type="checkbox"/> | General purpose | t2.nano | 1 | 0.5 | EBS only | - | Low to Moderate | Yes |
| <input checked="" type="checkbox"/> | General purpose | t2.micro Free tier eligible | 1 | 1 | EBS only | - | Low to Moderate | Yes |
| <input type="checkbox"/> | General purpose | t2.small | 1 | 2 | EBS only | - | Low to Moderate | Yes |
| <input type="checkbox"/> | General purpose | t2.medium | 2 | 4 | EBS only | - | Low to Moderate | Yes |
| <input type="checkbox"/> | General purpose | t2.large | 2 | 8 | EBS only | - | Low to Moderate | Yes |
| <input type="checkbox"/> | General purpose | t2.xlarge | 4 | 16 | EBS only | - | Moderate | Yes |
| <input type="checkbox"/> | General purpose | t2.2xlarge | 8 | 32 | EBS only | - | Moderate | Yes |
| <input type="checkbox"/> | General purpose | m4.large | 2 | 8 | EBS only | Yes | Moderate | Yes |
| <input type="checkbox"/> | General purpose | m4.xlarge | 4 | 16 | EBS only | Yes | High | Yes |
| <input type="checkbox"/> | General purpose | m4.2xlarge | 8 | 32 | EBS only | Yes | High | Yes |
| <input type="checkbox"/> | General purpose | m4.4xlarge | 16 | 64 | EBS only | Yes | High | Yes |

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Instance Details](#)

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Click “Next”.

In Network, select sansbound_vpc_ohio

Subnet, select sansbound_ohio_public_subnet

Auto assign Public IP: Enable

EC2 Management Console

Secure | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard>

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

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-805a92e8 | Sansbound_VPC_Ohio [Create new VPC](#)

Subnet ⓘ subnet-a5dbc0de | Sansbound_Ohio_Public_Subnet [Create new subnet](#)
251 IP Addresses available

Auto-assign Public IP ⓘ Enable

Domain join directory ⓘ None [Create new directory](#)

IAM role ⓘ None [Create new IAM role](#)

Shutdown behavior ⓘ Stop

Enable termination protection ⓘ ☐ Protect against accidental termination

Monitoring ⓘ ☐ Enable CloudWatch detailed monitoring
[Additional charges apply.](#)

Tenancy ⓘ Shared - Run a shared hardware instance
[Additional charges will apply for dedicated tenancy.](#)

Elastic GPU ⓘ ☐ Add GPU
[Additional charges apply.](#)

T2 Unlimited ⓘ ☐ Enable
[Additional charges may apply](#)

▼ **Network interfaces** ⓘ

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

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Click “Next”.

Leave default settings and click “Next”.

The screenshot shows the AWS Management Console interface for the 'Add Storage' step of the EC2 Launch Wizard. The breadcrumb navigation at the top includes: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage (highlighted), 5. Add Tags, 6. Configure Security Group, and 7. Review.

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

| Volume Type | Device | Snapshot | Size (GiB) | Volume Type | IOPS | Throughput (MB/s) | Delete on Termination | Encrypted |
|-------------|-----------|------------------------|------------|---------------------------|------------|-------------------|-------------------------------------|---------------|
| Root | /dev/sda1 | snap-0af89eb045a23376e | 30 | General Purpose SSD (GP2) | 100 / 3000 | N/A | <input checked="" type="checkbox"/> | Not Encrypted |

[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Navigation buttons: [Cancel](#), [Previous](#), [Review and Launch](#), [Next: Add Tags](#)

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Type key as name and value as ohio public instance and click “Next”.

The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard'. The browser address bar shows the URL: <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:>. The navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information 'siva1n82' in 'Ohio'. The wizard progress bar shows seven steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags (active), 6. Configure Security Group, and 7. Review.

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

| Key (127 characters maximum) | Value (255 characters maximum) | Instances ⓘ | Volumes ⓘ |
|------------------------------|--------------------------------|-------------------------------------|-------------------------------------|
| Name | Ohio Public Instance | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

[Add another tag](#) (Up to 50 tags maximum)

Navigation buttons: [Cancel](#), [Previous](#), [Review and Launch](#), [Next: Configure Security Group](#)

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Create a new security group and permit RDP port 3389.

EC2 Management Console

Secure | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:>

Apps EC2 Management Console

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

| Type | Protocol | Port Range | Source | Description |
|------|----------|------------|------------------|----------------------------|
| RDP | TCP | 3389 | Custom 0.0.0.0/0 | e.g. SSH for Admin Desktop |

Add Rule

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous **Review and Launch**

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Click "Launch".

EC2 Management Console

Secure | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:>

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group, Ohio_Public_Sec_Group, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ AMI Details [Edit AMI](#)

Microsoft Windows Server 2016 Base - ami-89cce7ec

Free tier eligible Microsoft Windows 2016 Datacenter edition. [English]

Root Device Type: ebs Virtualization type: hvm

If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the [License Mobility Form](#). Don't show me this again

▼ Instance Type [Edit instance type](#)

| Instance Type | ECUs | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|----------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro | Variable | 1 | 1 | EBS only | - | Low to Moderate |

▼ Security Groups [Edit security groups](#)

Security group name: Ohio_Public_Sec_Group

Description: Ohio_Public_Sec_Group

| Type ⓘ | Protocol ⓘ | Port Range ⓘ | Source ⓘ | Description ⓘ |
|--------|------------|--------------|-----------|---------------|
| RDP | TCP | 3389 | 0.0.0.0/0 | |

► Instance Details [Edit instance details](#)

[Cancel](#) [Previous](#) [Launch](#)

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If you have already key pair select and launch the instance.

Select an existing key pair or create a new key pair ✕

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair ▼

Select a key pair

siva_ohio ▼

☒ I acknowledge that I have access to the selected private key file (siva_ohio.pem), and that without this file, I won't be able to log into my instance.

Cancel

Launch Instances

Click “Launch instances”.