

TS SDP4 (Cloud DevOps)

ID NO: 190030677

Name: K. Sravani

Skilling-7

Create VPC, public and private subnets (1 availability zone), creating internet gateway, attaching internet gateway to VPC, creating route table to configure public and private subnet (navigating traffic inside the vpc), ACL security (directing traffic from outside world to IGW - inbound and outbound - since stateless), security groups (directing traffic from outside world to subnet - inbound only - since statefull). Use the created VPC to host one application.

Steps:

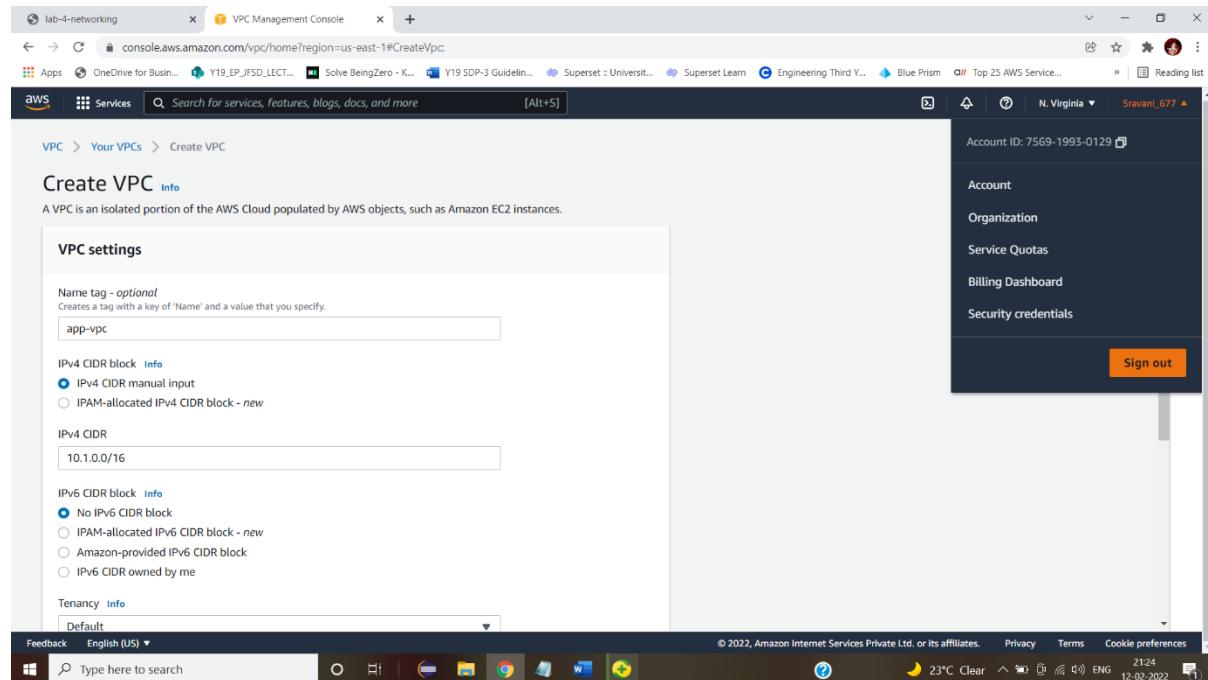
Stage 1 - Create VPC

Stage 2 - Create Subnets

Stage 3 - Create Route Tables

Stage 4 - Launch EC2 instances using role

Stage 5 - Stop instance



Screenshot of the AWS VPC Management Console showing the creation of a new VPC.

IPv4 CIDR: 10.1.0.0/16

IPv6 CIDR block: No IPv6 CIDR block

Tenancy: Default

Tags:

| Key | Value - optional |
|------|------------------|
| Name | app-vpc |

Create VPC button

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Screenshot of the AWS VPC Management Console showing the successful creation of a new VPC.

VPC ID: vpc-0cea7ee430c94263b

State: Available

DNS hostnames: Disabled

Main route table: rtb-072cd73cb788d592

IPv6 pool: -

Owner ID: 756919930129

IPv6 CIDR (Network border group): -

CIDRs: 10.1.0.0/16

Details: VPC ID: vpc-0cea7ee430c94263b, State: Available, IPv4 CIDR: 10.1.0.0/16, Owner ID: 756919930129

Create VPC button

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lab-4-networking Attach internet gateway | VPC M... +

console.aws.amazon.com/vpc/home?region=us-east-1#AttachInternetGateway:internetGatewayId=igw-072c81e63e163f7f8

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VPC > Internet gateways > Attach to VPC (igw-072c81e63e163f7f8) Info

Attach to VPC (igw-072c81e63e163f7f8)

Attach an 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.

vpc-0cea7ee430c94263b

AWS Command Line Interface command

Cancel Attach internet gateway

Account ID: 7569-1993-0129

Account Organization Service Quotas Billing Dashboard Security credentials Sign out

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lab-4-networking Create internet gateway | VPC M... +

console.aws.amazon.com/vpc/home?region=us-east-1#CreateInternetGateway:

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VPC > Internet gateways > Create internet gateway

Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

app-igw

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key Value - optional

Name app-igw Remove

Add new tag

You can add 49 more tags.

Cancel Create internet gateway

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Screenshot of the AWS VPC Management Console showing the successful attachment of an Internet gateway to a VPC.

Details:

| | |
|---------------------|---------------------------------|
| Internet gateway ID | igw-072c81e63e163f7f8 |
| State | Attached |
| VPC ID | vpc-0cea7ee430c94263b app-vpc |
| Owner | 756919930129 |

Tags:

| Key | Value |
|------|---------|
| Name | app-igw |

Navigation: VPC > Internet gateways > igw-072c81e63e163f7f8

Actions: Actions ▾

Header: lab-4-networking VPC Management Console

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Screenshot of the AWS VPC Management Console showing the creation of a new subnet.

VPC ID: Create subnets in this VPC.

Associated VPC CIDRs: IPv4 CIDRs

Subnet settings: Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 4:

Subnet name: Create a tag with a key of 'Name' and a value that you specify.
The name can be up to 256 characters long.

Navigation: VPC > Subnets > Create subnet

Header: lab-4-networking VPC Management Console

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Screenshot of the AWS VPC Management Console showing the creation of Subnet 1 of 4.

Subnet 1 of 4

Subnet name: public subnet 1

Availability Zone: US East (N. Virginia) / us-east-1a

IPv4 CIDR block: 10.1.1.0/24

Tags - optional:

| Key | Value - optional |
|------|------------------|
| Name | public subnet 1 |

Subnet 2 of 4

Subnet name: public subnet 2

Availability Zone: US East (N. Virginia) / us-east-1b

IPv4 CIDR block: 10.1.2.0/24

Tags - optional:

| Key | Value - optional |
|------|------------------|
| Name | public subnet 2 |

Subnet 3 of 4

Subnet name: public subnet 3

Availability Zone: US East (N. Virginia) / us-east-1c

IPv4 CIDR block: 10.1.3.0/24

Tags - optional:

| Key | Value - optional |
|------|------------------|
| Name | public subnet 3 |

Subnet 4 of 4

Subnet name: public subnet 4

Availability Zone: US East (N. Virginia) / us-east-1d

IPv4 CIDR block: 10.1.4.0/24

Tags - optional:

| Key | Value - optional |
|------|------------------|
| Name | public subnet 4 |

Screenshot of the AWS VPC Management Console showing the creation of Subnet 2 of 4.

Subnet 2 of 4

Subnet name: public subnet 2

Availability Zone: US East (N. Virginia) / us-east-1b

IPv4 CIDR block: 10.1.2.0/24

Tags - optional:

| Key | Value - optional |
|------|------------------|
| Name | public subnet 2 |

Subnet 3 of 4

Subnet name: public subnet 3

Availability Zone: US East (N. Virginia) / us-east-1c

IPv4 CIDR block: 10.1.3.0/24

Tags - optional:

| Key | Value - optional |
|------|------------------|
| Name | public subnet 3 |

Subnet 4 of 4

Subnet name: public subnet 4

Availability Zone: US East (N. Virginia) / us-east-1d

IPv4 CIDR block: 10.1.4.0/24

Tags - optional:

| Key | Value - optional |
|------|------------------|
| Name | public subnet 4 |

Subnet 3 of 4

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

The name can be up to 256 characters long.

Availability Zone [Info](#)
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

IPv4 CIDR block [Info](#)

▼ Tags - optional

| Key | Value - optional |
|-----------------------------------|---|
| <input type="text" value="Name"/> | <input type="text" value="private subnet 1"/> |

[Add new tag](#)
You can add 49 more tags.

[Remove](#)

Subnet 4 of 4

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

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Subnet 4 of 4

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

The name can be up to 256 characters long.

Availability Zone [Info](#)
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

IPv4 CIDR block [Info](#)

▼ Tags - optional

| Key | Value - optional |
|-----------------------------------|---|
| <input type="text" value="Name"/> | <input type="text" value="private subnet 2"/> |

[Add new tag](#)
You can add 49 more tags.

[Remove](#)

[Add new subnet](#)

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Subnets | VPC Management Con... +

console.aws.amazon.com/vpc/home?region=us-east-1#subnets:SubnetId=subnet-0b09d769c79445292,subnet-0e3c0a5ac1dd3c043,subnet-05e7e71070ceb236e,subnet-061fb1f82ce52a6f8

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New VPC Experience Tell us what you think

VPC Dashboard EC2 Global View New Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

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

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You have successfully created 4 subnets: subnet-0b09d769c79445292, subnet-0e3c0a5ac1dd3c043, subnet-05e7e71070ceb236e, subnet-061fb1f82ce52a6f8

Subnets (4) Info Actions Create subnet

Filter subnets

Subnet ID: subnet-0b09d769c79445292 Subnet ID: subnet-0e3c0a5ac1dd3c043 Subnet ID: subnet-05e7e71070ceb236e

Subnet ID: subnet-061fb1f82ce52a6f8 Clear filters

| Name | Subnet ID | State | VPC | IPv4 CIDR | IPv6 CIDR |
|------------------|--------------------------|-----------|--------------------------------|-------------|-----------|
| public subnet 2 | subnet-0e3c0a5ac1dd3c043 | Available | vpc-0cea7ee430c94263b app... | 10.1.2.0/24 | - |
| public subnet 1 | subnet-0b09d769c79445292 | Available | vpc-0cea7ee430c94263b app... | 10.1.1.0/24 | - |
| private subnet 2 | subnet-061fb1f82ce52a6f8 | Available | vpc-0cea7ee430c94263b app... | 10.1.4.0/24 | - |
| private subnet 1 | subnet-05e7e71070ceb236e | Available | vpc-0cea7ee430c94263b app... | 10.1.3.0/24 | - |

Select a subnet

Subnets | VPC Management Con... +

console.aws.amazon.com/vpc/home?region=us-east-1#subnets:SubnetId=subnet-0b09d769c79445292,subnet-0e3c0a5ac1dd3c043,subnet-05e7e71070ceb236e,subnet-061fb1f82ce52a6f8

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New VPC Experience Tell us what you think

VPC Dashboard EC2 Global View New Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

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- Endpoints New
- Endpoint Services
- NAT Gateways
- Peering Connections

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You have successfully created 4 subnets: subnet-0b09d769c79445292, subnet-0e3c0a5ac1dd3c043, subnet-05e7e71070ceb236e, subnet-061fb1f82ce52a6f8

Subnets (1/4) Info Actions Create subnet

Filter subnets

Subnet ID: subnet-0b09d769c79445292 Subnet ID: subnet-0e3c0a5ac1dd3c043 Subnet ID: subnet-05e7e71070ceb236e

Subnet ID: subnet-061fb1f82ce52a6f8 Clear filters

| Name | Subnet ID | State | VPC | IPv4 CIDR |
|---|--------------------------|-----------|--------------------------------|------------|
| public subnet 2 | subnet-0e3c0a5ac1dd3c043 | Available | vpc-0cea7ee430c94263b app... | 10.1.2.0/2 |
| <input checked="" type="checkbox"/> public subnet 1 | subnet-0b09d769c79445292 | Available | vpc-0cea7ee430c94263b app... | 10.1.1.0/2 |

Actions

- View details
- Create flow log
- Edit subnet settings
- Edit IPv6 CIDRs
- Edit network ACL association
- Edit route table association
- Edit CIDR reservations
- Share subnet
- Manage tags
- Delete subnet

Customer-owned IPv4 pool Auto-assign public IPv4 address No IPv4 CIDR reservations No IPv6 CIDR reservations

IPv6-only Outpost ID Resource name DNS A record Disabled Resource name DNS AAAA record Disabled

DNS64 Hostname type IP name

Screenshot of the AWS VPC Management Console showing the configuration of a subnet named "public subnet".

Subnet ID: subnet-0b09d769c79445292

Name: public subnet

Auto-assign IP settings: Enable auto-assign public IPv4 address

Resource-based name (RBN) settings:

- Enable resource name DNS A record on launch
- Enable resource name DNS AAAA record on launch

Hostname type: IP name

DNS64 settings:

- Enable DNS64

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Screenshot of the AWS VPC Management Console showing the configuration of a subnet.

Enable auto-assign public IPv4 address:

Resource-based name (RBN) settings:

- Enable resource name DNS A record on launch
- Enable resource name DNS AAAA record on launch

Hostname type: IP name

DNS64 settings:

- Enable DNS64

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lab-4-networking VPC Management Console

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

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

VPC
The VPC to use for this route table.

Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

| Key | Value - optional |
|-----------------------------------|--|
| <input type="text" value="Name"/> | <input type="text" value="app-routetable-public"/> |

Add new tag
You can add 49 more tags.

Cancel **Create route table**

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lab-4-networking Route tables | VPC Management

New VPC Experience Tell us what you think

CLOUD Your VPCs Subnets

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

SECURITY Network ACLs Security Groups

NETWORK ANALYSIS Reachability Analyzer

Route tables (1/3) **Info**

Filter route tables

| Name | Route table ID | Explicit subnet associat... | Edge associations | Main | VPC | Owner |
|------------------------------|------------------------------|-----------------------------|-------------------|------|--------------------------------|-------|
| rtb-009e0975416e822f | - | - | - | Yes | vpc-093e879616074866 ts7 | 756 |
| app-routetable-public | rtb-00cd2351710a9707a | - | - | No | vpc-0cea7ee430c94263b app... | 756 |

rtb-00cd2351710a9707a / app-routetable-public

Details **Routes** Subnet associations Edge associations Route propagation Tags

Filter routes Both

| Destination | Target | Status | Propagated |
|-------------|--------|--------|------------|
| 10.1.0.0/16 | local | Active | No |

Edit routes

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Screenshot of the AWS VPC Management Console showing the 'Edit routes' page for route table ID rtb-00cd2351710a9707a.

The table shows two routes:

| Destination | Target | Status | Propagated |
|-------------|-----------------------|--------|------------|
| 10.1.0.0/16 | local | Active | No |
| 0.0.0.0/0 | igw-072c81e63e163f7f8 | - | No |

Buttons at the bottom include 'Add route', 'Cancel', 'Preview', and 'Save changes'.

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Screenshot of the AWS VPC Management Console showing the 'Edit subnet associations' page for route table ID rtb-00cd2351710a9707a.

The table shows available subnets:

| Name | Subnet ID | IPv4 CIDR | IPv6 CIDR | Route table ID |
|------------------|--------------------------|-------------|-----------|------------------------------------|
| public subnet 2 | subnet-0e3c0a5ac1dd5c043 | 10.1.2.0/24 | - | Main (rtb-072cdd73cb788d592 / ts7) |
| public subnet 1 | subnet-0b09d769c79445292 | 10.1.1.0/24 | - | Main (rtb-072cdd73cb788d592 / ts7) |
| private subnet 2 | subnet-061fb1f82ce52a6f8 | 10.1.4.0/24 | - | Main (rtb-072cdd73cb788d592 / ts7) |
| private subnet 1 | subnet-05e7e71070ceb236e | 10.1.3.0/24 | - | Main (rtb-072cdd73cb788d592 / ts7) |

The selected subnets are:

- subnet-0e3c0a5ac1dd5c043 / public subnet 2
- subnet-0b09d769c79445292 / public subnet 1

Buttons at the bottom include 'Cancel' and 'Save associations'.

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Screenshot of the AWS VPC Management Console showing the creation of a new route table.

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

VPC
The VPC to use for this route table.

Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

| Key | Value - optional |
|-----------------------------------|---|
| <input type="text" value="Name"/> | <input type="text" value="app-routetable-private"/> |

Add new tag
You can add 49 more tags.

Create route table

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Screenshot of the AWS VPC Management Console showing the editing of subnet associations for a route table.

Edit subnet associations
Change which subnets are associated with this route table.

Available subnets (2/4)

| Name | Subnet ID | IPv4 CIDR | IPv6 CIDR | Route table ID |
|--|--------------------------|-------------|-----------|---|
| public subnet 2 | subnet-0e3c0a5ac1dd5c043 | 10.1.2.0/24 | - | rtb-00cd2351710a9707a / app-routetable-public |
| public subnet 1 | subnet-0b09d769c79445292 | 10.1.1.0/24 | - | rtb-00cd2351710a9707a / app-routetable-public |
| <input checked="" type="checkbox"/> private subnet 2 | subnet-061fb1f82ce52a6f8 | 10.1.4.0/24 | - | Main (rtb-072cd73cb788d592 / ts7) |
| <input checked="" type="checkbox"/> private subnet 1 | subnet-05e7e71070ceb236e | 10.1.3.0/24 | - | Main (rtb-072cd73cb788d592 / ts7) |

Selected subnets

Save associations

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lab-4-networking

Launch instance wizard | EC2 M...

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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

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, and storage. Use the filters to narrow down your search.

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, ~ 1 GiB memory, EBS only)

| Family | Type | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Networking |
|--------|---|-------|--------------|-----------------------|-------------------------|---------------------|
| i2 | t2.nano | 1 | 0.5 | EBS only | - | |
| i2 | t2.micro <small>Free tier eligible</small> | 1 | 1 | EBS only | - | |
| i2 | t2.small | 1 | 2 | EBS only | - | Low to Moderate Yes |
| i2 | t2.medium | 2 | 4 | EBS only | - | Low to Moderate Yes |
| i2 | t2.large | 2 | 8 | EBS only | - | Low to Moderate Yes |
| i2 | t2.xlarge | 4 | 16 | EBS only | - | Moderate Yes |
| i2 | t2.2xlarge | 8 | 32 | EBS only | - | Moderate Yes |
| i3 | t3.nano | 2 | 0.5 | FRS only | Yes | Up to 5 Gbps Yes |

Cancel Previous Review and Launch Next: Configure Instance Details

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lab-4-networking

Launch instance wizard | EC2 M...

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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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

Network: vpc-0cea7ee430c94263b | app-vpc Create new VPC

Subnet: subnet-0b09d769c79445292 | public subnet 1 | us-east-1 Create new subnet
251 IP Addresses available

Auto-assign Public IP: Enable

Hostname type: Use subnet setting (IP name)

DNS Hostname: Enable IP name IPv4 (A record) DNS requests
 Enable resource-based IPv4 (A record) DNS requests
 Enable resource-based IPv6 (AAAA record) DNS requests

Placement group: Add instance to placement group

Capacity Reservation: Open

Domain join directory: No directory Create new directory

IAM role: fullaccess Create new IAM role

Shutdown behavior: Stop

C Cancel Previous Review and Launch Next: Add Storage

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Screenshot of the AWS IAM Management Console showing the "Step 3: Configure Instance Details" page. The user is configuring an EC2 instance with the following settings:

- Device:** eth0
- Network Interface:** New network interface
- Subnet:** subnet-0b09d765
- Primary IP:** Auto-assign
- Secondary IP addresses:** Add IP
- IPv6 IPs:** The selected subnet does not support IPv6 because it does not have an IPv6 CIDR block.

Advanced Details:

- Enclave:** Enable
- Metadata accessible:** Enabled
- Metadata version:** V1 and V2 (token optional)
- Metadata token response hop limit:** 1
- Allow tags in metadata:** Disabled
- User data:** As text (radio button selected)
#!/bin/bash -ex
wget https://aws-tc-largeobjects.s3-us-west-2.amazonaws.com/DEV-AWS-MO-GCN2/FlaskApp.zip
unzip FlaskApp.zip
sed -i 's/"TextField"/StringField/g' FlaskApp/application.py
cd FlaskApp/

Buttons at the bottom: Cancel, Previous, Review and Launch (highlighted), Next: Add Storage.

Screenshot of the AWS IAM Management Console showing the "Step 5: Add Tags" page. The user is adding a tag to the EC2 instance:

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 | (128 characters maximum) | Value | (256 characters maximum) | Instances | Volumes | Network Interfaces |
|------------------------|--------------------------|-------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| employee-directory-app | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Add another tag (Up to 50 tags maximum)

Buttons at the bottom: Cancel, Previous, Review and Launch (highlighted), Next: Configure Security Group.

lab-4-networking | Launch instance wizard | EC2 Management Console | IAM Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

Services: iam

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: web-security-group
Description: Enable HTTP access

| Type | Protocol | Port Range | Source | Description |
|-------|----------|------------|----------|--|
| HTTP | TCP | 80 | Anywhere | 0.0.0.0/0, ::/0 e.g. SSH for Admin Desktop |
| HTTPS | TCP | 443 | Anywhere | 0.0.0.0/0, ::/0 e.g. SSH for Admin Desktop |

Add Rule

Warning
You will not be able to connect to this instance as the AMI requires port(s) 22 to be open in order to have access. Your current security group doesn't have port(s) 22 open.

Feedback English (US) ▾

Type here to search

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23°C Clear 22:14 12-02-2022

lab-4-networking | Launch instance wizard | EC2 Management Console | IAM Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

Services: iam

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

Security Groups: web-security-group (selected)

Security group name: web-security-group
Description: Enable HTTP access

Type: HTTP | Protocol: TCP
Type: HTTP | Protocol: TCP
Type: HTTPS | Protocol: TCP
Type: HTTPS | Protocol: TCP

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. Amazon EC2 supports ED25519 and RSA key pair types.

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.

Create a new key pair | RSA | ED25519
Key pair name: app-key-pair

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel | Launch Instances

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The screenshot shows the AWS EC2 Management Console interface. The main pane displays a table of instances with the following details:

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status |
|-------------|---------------------|----------------|---------------|-------------------|--------------|
| employeeapp | i-0166726395a35e1e8 | Running | t2.micro | 2/2 checks passed | No alarms |
| ts6 | i-08a231b2fa33b9764 | Running | t2.micro | 2/2 checks passed | No alarms |
| ts7 | i-05311eaff52a0fd0a | Running | t2.micro | 2/2 checks passed | No alarms |

The left sidebar shows navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (with sub-links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations), and Images (AMIs). The top right corner shows account information (Account ID: 7569-1993-0129) and a sign-out button.

The screenshot shows the Employee Directory application interface. The main title is "Employee Directory". Below it, a sub-header says "Employee Directory - Home". On the far right, there is a blue "Add" button. The rest of the screen is mostly blank, indicating no data is currently listed.



Screenshot of a web browser showing the "Employee Directory" page. The browser tabs include "lab-4-networking", "Instances | EC2 Management Con...", "Employee Directory", "IAM Management Console", and "Not secure | 54.152.194.17/add". The "Employee Directory" tab is active.

The page displays a form for adding an employee:

- Choose File: No file chosen
- Full Name: [Input field]
- Location: [Input field]
- Job Title: [Input field]
- A list of checkboxes for interests:
 - Mac User
 - Windows User
 - Linux User
 - Digital Content Star
 - Employee of the Month
 - Photographer
 - Frequent Flier
 - Paperclip Afficionado
 - Coffee Snob
 - Gamer
 - Bugfixer
 - Seattle Fan

At the bottom right of the form is a "Save" button.

The taskbar at the bottom shows the Windows Start button, a search bar with "Type here to search", and various pinned icons. The system tray shows the date (12-02-2022), time (22:21), and battery status.

Screenshot of the same web browser session after an employee has been added. The "Employee Directory" tab is still active.

The form now contains the following data:

- Choose File: 2.jpg
- Full Name: Sravani
- Location: Vijayawada
- Job Title: Cloud
- A list of checkboxes for interests:
 - Mac User
 - Windows User
 - Linux User
 - Digital Content Star
 - Employee of the Month
 - Photographer
 - Frequent Flier
 - Paperclip Afficionado
 - Coffee Snob
 - Gamer
 - Bugfixer
 - Seattle Fan

A "Save" button is visible at the bottom right of the form.

The taskbar and system tray are identical to the previous screenshot.

The screenshot shows a web browser window with the title "Employee Directory". A blue banner at the top says "Saved!". Below it, the page header reads "Employee Directory - Home". On the right side of the header is a blue "Add" button. The main content area is currently empty, showing a few horizontal grey lines.

