



Pelatihan ABCD – Hari 5 Cloud Computing

Sekolah Teknik Elektro dan Informatika Institut Teknologi Bandung
Universitas Singaperbangsa Karawang

Introduction to Cloud 101

<https://www.awseducate.com/student/s/>

Lab 5: Creating a Virtual Private Cloud

https://awseducate.instructure.com/courses/746/assignments/3109?module_item_id=13261

Lab 5: Creating a Virtual Private Cloud

The screenshot shows a web browser window with the following details:

- Title Bar:** Lab 5 - Introduction to Amazon
- URL:** awseducate.instructure.com/courses/746/assignments/3109?module_item_id=13261
- Header:** Getting Started, Imported From Fir..., Addons, New Tab, Network Research..., IEEE/ACM Internat..., Styles Archives -...
- Sidebar (Left):**
 - aws logo**
 - Navigation:** Home, Modules
 - Courses:** EN-US (dropdown), Submit, Details, AWS, Start Lab, End Lab, --:--, Instructions, Grades, Actions
 - File Options:** Files, README, Terminal, Source
 - Terminal Window:** bash, ddd_v1_w_1Vu_1834270@runweb67415:~\$
- Content Area:**
 - Section Header:** Lab 5 - Introduction to Amazon Virtual Private Cloud (Amazon VPC)
 - Due Date:** No Due Date
 - Points:** 100
 - Submission:** Submitting an external tool
 - Text:** EN-US (dropdown)
 - Section Header:** Lab 5: Creating a Virtual Private Cloud
 - Section Header:** Lab overview
 - Text:** Traditional networking is difficult. It involves equipment, cabling, complex configurations, and specialist skills. Amazon Virtual Private Cloud (Amazon VPC) hides the complexity and simplifies the deployment of secure private networks.
 - Text:** This lab shows you how to build your own virtual private cloud (VPC), deploy resources, and create private
- Bottom Navigation:** Previous, Next

Lab 5: Creating a Virtual Private Cloud

- ▶ After completing this lab, you should be able to:
 - ▶ Deploy a VPC
 - ▶ Create an internet gateway and attach it to the VPC
 - ▶ Create a public subnet
 - ▶ Create a private subnet
 - ▶ Create an application server to test the VPC
- ▶ Duration
 - ▶ This lab requires approximately 45 minutes to complete.

Accessing the AWS Management Console

The screenshot shows a web browser window with the following details:

- Title Bar:** Lab 5 - Introduction to Amazon > awseducate.instructure.com/courses/746/assignments/3109?module_item_id=13261
- Toolbar:** Getting Started, Imported From Fir..., Addons, New Tab, Network Research..., IEEE/ACM Internat..., Styles Archives -...
- Left Sidebar (Courses):** AWS logo, Account, Modules, Dashboard, Courses, History, Help.
- Current Page:** EDC101v... > Assignments > Lab 5 - Introduction to Amazon Virtual Private Cloud (Amazon VPC)
- Content:** Lab 5 - Introduction to Amazon Virtual Private Cloud (Amazon VPC). Due: No Due Date, Points: 100, Submitting: an external tool.
- Modal Window (Start Lab):**
 - Region: us-east-1
 - Lab ID: arn:aws:cloudformation:us-east-1:487709796328:stack/c35460a48368513244267t1w487709796328/47229590-74a8-11ed-a0fa-0ec240785f9f
 - Creation Time: 2022-12-05T06:22:41-0800
 - Start session at: 2022-12-05T06:22:42-0800
 - Remaining session time: 00:45:00(45 minutes)
 - Lab status: ready
- Bottom Navigation:** < Previous, Next >



Task 1: Creating a VPC

In the AWS Management Console, on the Services menu, choose VPC

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with tabs for 'Lab 5 - Introduction to Amazon' and 'AWS Management Console'. Below the navigation bar is a toolbar with various icons for getting started, imported files, add-ons, and network research.

The main area is titled 'Services' and contains a search bar and a 'Compute' sidebar. The sidebar lists several services: Compute, Containers, Customer Enablement, Database, Developer Tools, End User Computing, Front-end Web & Mobile, Game Development, Internet of Things, Machine Learning, Management & Governance, Media Services, Migration & Transfer, Networking & Content Delivery, Quantum Technologies, Robotics, Satellite, Security, Identity, & Compliance, and Storage. The 'Networking & Content Delivery' service is highlighted in orange.

The central content area displays a list of AWS services:

- AWS App Mesh**: Easily monitor and control microservices.
- AWS Cloud Map**: Build a dynamic map of your cloud.
- CloudFront**: Global Content Delivery Network.
- Direct Connect**: Dedicated Network Connection to AWS.
- Global Accelerator**: Improve your application's availability and performance using the AWS Global Network.
- AWS Private 5G**: Deploy and scale private mobile networks on-premises.
- Route 53**: Scalable DNS and Domain Name Registration.
- Route 53 Application Recovery Controller**: Monitor application recovery readiness and manage failovers.
- VPC**: Isolated Cloud Resources.

To the right of the service list, there's a 'Welcome to AWS' sidebar with sections for 'Getting started with AWS', 'Training and certification', and 'What's new with AWS?'. At the bottom of the page, there's a footer with links for 'Privacy', 'Terms', and 'Cookie preferences'.

In the left navigation pane, choose Your VPCs

The screenshot shows the AWS VPC Management Console interface. The left navigation pane is expanded, showing categories like 'Virtual private cloud' and 'Security'. The 'Your VPCs' section is highlighted. The main content area displays 'Resources by Region' with counts for various VPC components across the US East region.

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 option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

▼ Security

- Network ACLs
- Security groups

Create VPC **Launch EC2 Instances**

Note: Your Instances will launch in the US East region.

Resources by Region Refresh Resources

You are using the following Amazon VPC resources

VPCs See all regions ▾	US East 2	NAT Gateways See all regions ▾	US East 0
Subnets See all regions ▾	US East 8	VPC Peering Connections See all regions ▾	US East 0
Route Tables See all regions ▾	US East 3	Network ACLs See all regions ▾	US East 2
Internet Gateways See all regions ▾	US East 1	Security Groups See all regions ▾	US East 3
Egress-only Internet Gateways See all regions ▾	US East 0	Customer Gateways See all regions ▾	US East 0
DHCP option sets See all regions ▾	US East 1	Virtual Private Gateways See all regions ▾	US East 0
Elastic IPs See all regions ▾	US East 0	Site-to-Site VPN Connections See all regions ▾	US East 0

Service Health

Current Status	Details
Green checkmark Amazon EC2 - US East	Service is operating normally

[View complete service health details](#)

Settings

Zones

Console Experiments

Additional Information

VPC Documentation

All VPC Resources

Forums

[Report an Issue](#)

AWS Network Manager

AWS Network Manager provides tools and features to help you manage and monitor your network on AWS. Network Manager makes it easier to perform connectivity management, network monitoring and troubleshooting, IP management, and network security and governance.

[Get started with Network Manager](#)

Feedback Looking for language selection? Find it in the new Unified Settings Feedback

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Choose Create VPC

The screenshot shows the AWS VPC Management console interface. On the left, a sidebar lists various VPC-related services: VPC dashboard, EC2 Global View (New), Filter by VPC (Select a VPC dropdown), Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections), and Security (Network ACLs, Security groups). The main content area is titled "Your VPCs (2)" and displays a table with two entries:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
Shared VPC	vpc-06d8a6beedd3ceaa7	Available	10.5.0.0/16	-
-	vpc-01813920f51368ce5	Available	172.31.0.0/16	-

A prominent orange "Create VPC" button is located at the top right of the table. Below the table, a message says "Select a VPC above". At the bottom of the page, there are links for Feedback, Language selection, Copyright notice (© 2022, Amazon Web Services, Inc. or its affiliates.), Privacy, Terms, and Cookie preferences.

Choose Create VPC and configure the settings

The screenshot shows the AWS VPC Management Console interface for creating a new VPC. The browser tab is titled "Lab 5 - Introduction to Amazon" and the sub-tab is "VPC Management Console". The URL is "us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpc:createMode=vpcOnly". The main title is "Create VPC" with an "Info" link. A sub-instruction says "A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances." Below this is a section titled "VPC settings".
Resources to create: A radio button group with "VPC only" selected (highlighted in blue) and "VPC and more" unselected.
Name tag - optional: A text input field containing "Lab VPC".
IPv4 CIDR block: A radio button group with "IPv4 CIDR manual input" selected (highlighted in blue) and "IPAM-allocated IPv4 CIDR block" unselected.
IPv4 CIDR: A text input field containing "10.0.0.0/16".
IPv6 CIDR block: A radio button group with "No IPv6 CIDR block" selected (highlighted in blue) and three other options unselected: "IPAM-allocated IPv6 CIDR block", "Amazon-provided IPv6 CIDR block", and "IPv6 CIDR owned by me".
Tenancy: A dropdown menu set to "Default".
At the bottom, there are links for "Feedback", "Language selection", "© 2022, Amazon Web Services, Inc. or its affiliates.", "Privacy", "Terms", and "Cookie preferences".

You successfully created VPC

The screenshot shows the AWS VPC Management Console interface. At the top, there's a success message: "You successfully created vpc-0d4b419358340f193 / Lab VPC". Below this, the VPC ID is displayed as "vpc-0d4b419358340f193 / Lab VPC". The main section is titled "Details" and contains the following information:

VPC ID	State	DNS hostnames	DNS resolution
vpc-0d4b419358340f193	Available	Disabled	Enabled
Tenancy	DHCP option set	Main route table	Main network ACL
Default	dopt-0952e1db0b0e5fdb7	rtb-01a8ab855d755bc33	acl-0717c7ea44ed79c11
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR (Network border group)
No	10.0.0.0/16	-	-
Network Address Usage metrics	Route 53 Resolver DNS Firewall rule groups	Owner ID	
Disabled	Failed to load rule groups	487709796328	

Below the details, there are tabs for "CIDRs", "Flow logs", and "Tags". The "CIDRs" tab is selected. It shows a table with columns: "Address type", "CIDR", "Network Border Group", "Pool", and "Status". There are no entries in the table.

At the bottom, there are links for "Feedback", "Language selection", "Privacy", "Terms", and "Cookie preferences".

From the VPC Details page, choose the Tags tab

The screenshot shows the AWS VPC Management Console with the URL us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#VpcDetails:VpcId=vpc-0d4b419358340f193. A success message at the top says "You successfully created vpc-0d4b419358340f193 / Lab VPC". The main area displays the "Details" tab for the VPC, listing various configuration parameters. On the right, a context menu is open over the "Actions" button, showing options like "Edit DNS hostnames" which is highlighted. Below the details, there are tabs for "CIDRs", "Flow logs", and "Tags", with "Tags" being the active tab. The "Tags" section contains a search bar and a table with columns "Key" and "Value". A "Manage tags" button is located in the top right corner of this section. The left sidebar shows navigation links for VPC dashboard, EC2 Global View, Filter by VPC, Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections), and Security (Network ACLs, Security groups). The bottom of the screen includes standard AWS footer links for Feedback, Language selection, Copyright (© 2022, Amazon Web Services, Inc. or its affiliates.), Privacy, Terms, and Cookie preferences.

Lab 5 - Introduction to Amazon X VPC Management Console +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditDnsHostnames:VpcId=vpc-0d4b419358340f193

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aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

VPC > Your VPCs > vpc-0d4b419358340f193 > Edit DNS hostnames

Edit DNS hostnames Info

DNS hostnames settings
Indicates whether instances with public IP addresses get corresponding public DNS hostnames.

VPC ID
 vpc-0d4b419358340f193

DNS hostnames
 Enable

i On November 30th, 2022, these settings will be moved to 'Edit VPC settings'. To reach these settings, on the navigation pane click 'Your VPCs', select a VPC, and choose 'Actions' > 'Edit VPC settings'.
[Go to Edit VPC settings](#)

Cancel **Save changes**

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Lab 5 - Introduction to Amazon X Your VPCs | VPC Management X +

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

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VPC dashboard X

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 option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups

DNS hostnames successfully updated.

Your VPCs (3) Info

Actions ▾ Create VPC

Filter VPCs

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	Shared VPC	vpc-06d8a6beedd3ceaa7	Available	10.5.0.0/16	-
<input type="checkbox"/>	-	vpc-01813920f51368ce5	Available	172.31.0.0/16	-
<input type="checkbox"/>	Lab VPC	vpc-0d4b419358340f193	Available	10.0.0.0/16	-

Select a VPC above

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Task 2: Creating subnets

Lab 5 - Introduction to Amazon X Subnets | VPC Management C X +

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

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AWS Services Search [Option+S] N. Virginia voclabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

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 option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups

Subnets (8) Info

Filter subnets

Create subnet

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	-	subnet-0bd7aeb0c58699541	Available	vpc-01813920f51368ce5	172.31.32.0/20	-
<input type="checkbox"/>	-	subnet-06f86e4cd14786d7	Available	vpc-01813920f51368ce5	172.31.48.0/20	-
<input type="checkbox"/>	Shared VPC Subnet 1	subnet-0aa872792c18a2371	Available	vpc-06d8a6beedd3ceaa7 Sha...	10.5.0.0/23	-
<input type="checkbox"/>	Shared VPC Subnet 2	subnet-0b40d718817ab52b6	Available	vpc-06d8a6beedd3ceaa7 Sha...	10.5.2.0/23	-
<input type="checkbox"/>	-	subnet-0cee991c33a855bf9	Available	vpc-01813920f51368ce5	172.31.80.0/20	-
<input type="checkbox"/>	-	subnet-00ad911f8fba3f49c	Available	vpc-01813920f51368ce5	172.31.16.0/20	-
<input type="checkbox"/>	-	subnet-0bb7f0ca283ffd2d5	Available	vpc-01813920f51368ce5	172.31.64.0/20	-
<input type="checkbox"/>	-	subnet-004f9eaa52c1b6fdb	Available	vpc-01813920f51368ce5	172.31.0.0/20	-

Select a subnet

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Lab 5 - Introduction to Amazon VPC Management Console

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

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AWS Services Search [Option+S]

N. Virginia vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328

VPC

VPC ID
Create subnets in this VPC.
vpc-0d4b419358340f193 (Lab VPC)

Associated VPC CIDRs
IPv4 CIDRs
10.0.0.0/16

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
Public Subnet
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.
US East (N. Virginia) / us-east-1a

IPv4 CIDR block [Info](#)
10.0.0.0/24

▼ Tags - optional

Feedback Looking for language selection? Find it in the new Unified Settings [?](#)

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Choose Create subnet

The screenshot shows the AWS VPC Management Console interface for creating a new subnet. The browser tab is titled "Lab 5 - Introduction to Amazon" and the sub-tab is "VPC Management Console". The URL is "us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateSubnet:". The AWS logo and services navigation bar are visible at the top.

Subnet 1 of 1

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](#)
 You can add 49 more tags.

Tags - optional

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="Public Subnet"/>

[Add new tag](#) [Remove](#)

[Remove](#) [Add new subnet](#)

[Cancel](#) [Create subnet](#)

[Feedback](#) Looking for language selection? Find it in the new Unified Settings

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Under Auto-assign IP settings, select Enable auto-assign public IPv4 address

The screenshot shows the AWS VPC Management Console interface. A success message at the top states: "You have successfully created 1 subnet: subnet-071fa6193a0038134". The main area displays a table of subnets with one entry:

Name	Subnet ID	State	VPC
Public Subnet	subnet-071fa6193a0038134	Available	vpn-0d4b419358340f193 La...

On the right side, a context menu is open for the selected subnet, showing options like "Edit subnet settings", "Edit IPv6 CIDs", and "Delete subnet". Below the table, a detailed view for "subnet-071fa6193a0038134 / Public Subnet" is shown with tabs for Details, Flow logs, Route table, Network ACL, CIDR reservations, Sharing, and Tags. The Details tab shows the following information:

Subnet ID	Subnet ARN	State	IPv4 CIDR
subnet-071fa6193a0038134	arn:aws:ec2:us-east-	Available	10.0.0.0/24

At the bottom, there are links for Feedback, Language selection, Copyright notice (© 2022, Amazon Web Services, Inc. or its affiliates.), Privacy, Terms, and Cookie preferences.

Lab 5 - Introduction to Amazon VPC Management Console

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditSubnetSettings:SubnetId=subnet-071fa6193a0038134

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Edit subnet settings Info

Subnet

Subnet ID	Name
<input type="text"/> subnet-071fa6193a0038134	<input type="text"/> Public Subnet

Auto-assign IP settings Info

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

Enable auto-assign public IPv4 address Info

Enable auto-assign customer-owned IPv4 address Info
Option disabled because no customer owned pools found.

Resource-based name (RBN) settings Info

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

Enable resource name DNS A record on launch Info

Enable resource name DNS AAAA record on launch Info

Hostname type Info

Resource name

IP name

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Lab 5 - Introduction to Amazon VPC Subnets | VPC Management Console

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#subnets:SubnetId=subnet-071fa6193a0038134

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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 option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups

You have successfully changed subnet settings:

- Enable auto-assign public IPv4 address

Subnets (1/1) Info

Filter subnets Subnet ID: subnet-071fa6193a0038134 Clear filters

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
Public Subnet	subnet-071fa6193a0038134	Available	vpc-0d4b419358340f193 Lab VPC	10.0.0.0/24	-

subnet-071fa6193a0038134 / Public Subnet

Details Flow logs Route table Network ACL CIDR reservations Sharing Tags

Details

Subnet ID	Subnet ARN	State	IPv4 CIDR
subnet-071fa6193a0038134	arn:aws:vpc:us-east-1:123456789012:subnet/subnet-071fa6193a0038134	Available	10.0.0.0/24

Feedback Looking for language selection? Find it in the new Unified Settings

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The screenshot shows the AWS VPC Management Console interface. On the left, there's a navigation sidebar with various VPC-related options like Subnets, Route tables, and Security groups. The main content area has a green success message about changing subnet settings. Below that is a table listing one subnet named 'Public Subnet' with details like its ID, state, VPC association, and CIDR range. At the bottom, there's a detailed view for the selected subnet, showing its ID, ARN, state, and CIDR range.



Create a private subnet

Lab 5 - Introduction to Amazon X VPC Management Console X +

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

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vpc-Ud4b419358540f193 (Lab VPC)

Associated VPC CIDRs

IPv4 CIDRs
10.0.0.0/16

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

Subnet 1 of 1

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="button" value="X"/>	<input type="text" value="Private Subnet"/> <input type="button" value="X"/> <input type="button" value="Remove"/>

You can add 49 more tags.

Feedback Looking for language selection? Find it in the new Unified Settings

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Lab 5 - Introduction to Amazon X Subnets | VPC Management C X +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#subnets:SubnetId=subnet-0874a4852855fbad0

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VPC dashboard X

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 option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

You have successfully created 1 subnet: subnet-0874a4852855fbad0

Subnets (1/1) Info

Filter subnets

Subnet ID: subnet-0874a4852855fbad0 X Clear filters

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
Private Subnet	subnet-0874a4852855fbad0	Available	vpc-0d4b419358340f193 La...	10.0.2.0/23	-

subnet-0874a4852855fbad0 / Private Subnet

Details Flow logs Route table Network ACL CIDR reservations Sharing Tags

Details

Subnet ID subnet-0874a4852855fbad0	Subnet ARN arn:aws:ec2:us-east-	State Available	IPv4 CIDR 10.0.2.0/23
---------------------------------------	------------------------------------	--------------------	--------------------------

Feedback Looking for language selection? Find it in the new Unified Settings

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The screenshot shows the AWS VPC Management Console interface. On the left, there's a navigation sidebar with various VPC-related options like Your VPCs, Subnets, Route tables, etc. The main area displays a success message: "You have successfully created 1 subnet: subnet-0874a4852855fbad0". Below this, the "Subnets (1/1)" section is shown with a single entry: "Private Subnet" with ID "subnet-0874a4852855fbad0", which is "Available" and part of "vpc-0d4b419358340f193 | La...". At the bottom, there's a detailed view for the subnet, showing its ID, ARN, state (Available), and IPv4 CIDR (10.0.2.0/23).



Task 3: Creating an internet gateway

Lab 5 - Introduction to Amazon VPC | Internet gateways | VPC Manager

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

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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 option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups

Search [Option+S]

Internet gateways (1/1) Info

Filter internet gateways Actions Create internet gateway

Name	Internet gateway ID	State	VPC ID	Owner
-	igw-05f611ec6fdac2d43	Attached	vpc-01813920f51368ce5	487709796328

igw-05f611ec6fdac2d43

Details Tags

Details

Internet gateway ID igw-05f611ec6fdac2d43	State Attached	VPC ID vpc-01813920f51368ce5	Owner 487709796328
--	-------------------	---------------------------------	-----------------------

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Lab 5 - Introduction to Amazon X Create internet gateway | VPC X +

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

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aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

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.

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 Remove

Add new tag

You can add 49 more tags.

Cancel **Create internet gateway**

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Lab 5 - Introduction to Amazon VPC Management Console

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#InternetGateway:internetGatewayId=igw-0c04d19326f0d7184

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VPC Services Search [Option+S] N. Virginia vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328

VPC dashboard X 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 option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups

The following internet gateway was created: igw-0c04d19326f0d7184 - Lab IGW. You can now attach to a VPC to enable the VPC to communicate with the internet.

Attach to a VPC X

VPC > Internet gateways > igw-0c04d19326f0d7184 / Lab IGW Actions ▾

Details Info

Internet gateway ID igw-0c04d19326f0d7184	State Detached	VPC ID -	Owner 487709796328
--	-------------------	-------------	-----------------------

Tags

Key	Value
Name	Lab IGW

Manage tags < 1 > ⚙

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Attach the internet gateway to your Lab VPC

The screenshot shows the AWS VPC Management Console interface. On the left, there's a navigation sidebar with sections like 'Virtual private cloud' (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections) and 'Security' (Network ACLs, Security groups). The main content area has tabs for 'Details' and 'Info'. Under 'Details', it shows the Internet gateway ID (igw-0c04d19326f0d7184), State (Detached), VPC ID (-), and Owner (487709796328). A green banner at the top says, 'The following internet gateway was created: igw-0c04d19326f0d7184 - Lab IGW. You can now attach to a VPC to enable the VPC to communicate with the internet.' An 'Actions' dropdown menu is open, showing options: Attach to VPC (which is highlighted in blue), Detach from VPC, Manage tags, and Delete. Below the 'Details' tab, there's a 'Tags' section with a search bar and a table showing one tag: Name (Lab IGW). At the bottom, there are links for Feedback, Language selection, Copyright (© 2022, Amazon Web Services, Inc. or its affiliates.), Privacy, Terms, and Cookie preferences.

Attach to VPC

The screenshot shows the AWS VPC Attach Internet Gateway dialog box. At the top, there are two tabs: "Lab 5 - Introduction to Amazon VPC" and "Attach internet gateway | VPC". The "Attach internet gateway | VPC" tab is active. Below the tabs is a browser header with various icons and links. The main content area has a title "Attach to VPC (igw-0c04d19326f0d7184) Info". A section titled "VPC" contains the instruction "Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below." Below this is a "Available VPCs" section with a search bar containing "vpc-0d4b419358340f193". A link "▶ AWS Command Line Interface command" is also present. At the bottom are "Cancel" and "Attach internet gateway" buttons. The footer includes links for Feedback, Unified Settings, Copyright notice (© 2022, Amazon Web Services, Inc. or its affiliates.), Privacy, Terms, and Cookie preferences.

Lab 5 - Introduction to Amazon VPC X Attach internet gateway | VPC +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#AttachInternetGateway:internetGatewayId=igw-0c04d19326f0d7184

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aws Services Search [Option+S]

N. Virginia vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328

VPC > Internet gateways > Attach to VPC (igw-0c04d19326f0d7184)

Attach to VPC (igw-0c04d19326f0d7184) Info

VPC
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-0d4b419358340f193

▶ AWS Command Line Interface command

Cancel Attach internet gateway

Feedback Looking for language selection? Find it in the new Unified Settings

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Lab 5 - Introduction to Amazon X VPC Management Console X +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#InternetGateway:internetGatewayId=igw-0c04d19326f0d7184

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aws Services Search [Option+S] N. Virginia vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

VPC dashboard X

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 option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups

Details Info

Internet gateway ID: igw-0c04d19326f0d7184 State: Attached VPC ID: vpc-0d4b419358340f193 | Lab VPC Owner: 487709796328

Tags

Manage tags

Key	Value
Name	Lab IGW

Feedback Looking for language selection? Find it in the new Unified Settings

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The screenshot shows the AWS VPC Management Console interface. A prominent green success message at the top center states: "Internet gateway igw-0c04d19326f0d7184 successfully attached to vpc-0d4b419358340f193". Below this, the breadcrumb navigation shows "VPC > Internet gateways > igw-0c04d19326f0d7184". The main content area displays the details for the Internet gateway "igw-0c04d19326f0d7184 / Lab IGW". The "Details" tab is selected, showing the Internet gateway ID, State (Attached), VPC ID (vpc-0d4b419358340f193 | Lab VPC), and Owner (487709796328). Below the details, the "Tags" section shows a single tag named "Name" with the value "Lab IGW". On the far right of the "Tags" section, there are buttons for "Manage tags", navigation arrows, and a refresh icon. The left sidebar contains a navigation tree with sections like "Virtual private cloud" (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections) and "Security" (Network ACLs, Security groups). The top navigation bar includes tabs for "Getting Started", "Imported From Fir...", "Addons", "New Tab", "Network Research...", "IEEE/ACM Internat...", "Styles Archives -...", and user information.



Task 4: Configuring route tables

Lab 5 - Introduction to Amazon X Route tables | VPC Manager X +

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

Getting Started Imported From Fir... Addons New Tab Network Research... IEEE/ACM Internat... Styles Archives -...

aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

VPC dashboard X

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 option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

Feedback Looking for language selection? Find it in the new Unified Settings

Route tables (1/4) Info

Filter route tables

Actions Create route table

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
-	rtb-0e8b71cc9e78fd510	-	-	Yes	vpc-01813920f51368ce5
-	rtb-0d90b04b6184da37f	-	-	Yes	vpc-06d8a6beedd3ceaa7 Sha...
<input checked="" type="checkbox"/> -	rtb-01a8ab855d755bc33	-	-	Yes	vpc-0d4b419358340f193 La...
<input type="checkbox"/> Shared-VPC Route ...	rtb-05cab5750bb70405d	2 subnets	-	No	vpc-06d8a6beedd3ceaa7 Sha...

rtb-01a8ab855d755bc33

Details Routes Subnet associations Edge associations Route propagation Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer X

Details

Route table ID	Main	Explicit subnet associations	Edge associations

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Lab 5 - Introduction to Amazon X Route tables | VPC Manager X +

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

Getting Started Imported From Fir... Addons New Tab Network Research... IEEE/ACM Internat... Styles Archives -...

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 option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups

Route tables (1/4) Info

Filter route tables Actions Create route table

	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-0e8b71cc9e78fd510	-	-	Yes	vpc-01813920f51368ce5
<input type="checkbox"/>	-	rtb-0d90b04b6184da37f	-	-	Yes	vpc-06d8a6beedd3ceaa7 Sha...
<input checked="" type="checkbox"/>	Private Route Table	rtb-01a8ab855d755bc33	-	-	Yes	vpc-0d4b419358340f193 La...
<input type="checkbox"/>	Shared-VPC Route ...	rtb-05cab5750bb70405d	2 subnets	-	No	vpc-06d8a6beedd3ceaa7 Sha...

rtb-01a8ab855d755bc33 / Private Route Table

Details Routes Subnet associations Edge associations Route propagation Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

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Lab 5 - Introduction to Amazon X Route tables | VPC Manager X +

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

Getting Started Imported From Fir... Addons New Tab Network Research... IEEE/ACM Internat... Styles Archives -...

aws Services Search [Option+S] Actions Create route table

VPC dashboard X

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 option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

Route tables (1/4) Info

Filter route tables

Name Route table ID Explicit subnet associat... Edge associations Main VPC

<input type="checkbox"/>	-	rtb-0e8b71cc9e78fd510	-	-	Yes	vpc-01813920f51368ce5
<input type="checkbox"/>	-	rtb-0d90b04b6184da37f	-	-	Yes	vpc-06d8a6beedd3ceaa7 Sha...
<input checked="" type="checkbox"/>	Private Route Table	rtb-01a8ab855d755bc33	-	-	Yes	vpc-0d4b419358340f193 La...
<input type="checkbox"/>	Shared-VPC Route ...	rtb-05cab5750bb70405d	2 subnets	-	No	vpc-06d8a6beedd3ceaa7 Sha...

Details Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Edit routes

Filter routes Both

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No

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Choose Create route table and configure the settings

The screenshot shows the AWS VPC Management Console with the URL us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateRouteTable. The browser tabs include 'Lab 5 - Introduction to Amazon' and 'VPC Management Console'. The page title is 'Create route table' under the 'VPC' section. The main content area is titled 'Create route table' with an 'Info' link. It explains that a route table specifies packet forwarding between subnets, the internet, and VPN connections. The 'Route table settings' section requires a 'Name - optional' tag ('Public Route Table') and a 'VPC' ('vpc-0d4b419358340f193 (Lab VPC)'). The 'Tags' section allows adding a tag ('Name' key, 'Public Route Table' value) and notes that 49 more tags can be added. The footer includes links for Feedback, Language selection, Copyright (© 2022, Amazon Web Services), Privacy, Terms, and Cookie preferences.

Lab 5 - Introduction to Amazon X VPC Management Console +

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

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aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

VPC > Route tables > Create route table

Create route table Info

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.

Public Route Table

VPC
The VPC to use for this route table.

vpc-0d4b419358340f193 (Lab VPC)

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
Q Name	Q Public Route Table X Remove

Add new tag

You can add 49 more tags.

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Lab 5 - Introduction to Amazon X VPC Management Console X +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-06c006e2734850038

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aws Services Search [Option+S] N. Virginia v ocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

VPC dashboard X

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 option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

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Route table rtb-06c006e2734850038 | Public Route Table was created successfully.

rtb-06c006e2734850038 / Public Route Table

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Details

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-06c006e2734850038	<input type="checkbox"/> No	-	-
VPC	Owner ID		
vpc-0d4b419358340f193 Lab VPC	487709796328		

Routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	<input checked="" type="checkbox"/> Active	No

Edit routes

Filter routes Both 1

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Add Routes

The screenshot shows the AWS VPC Management Console with the title "Edit routes". The URL in the browser is `us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:RouteTableId=rtb-06c006e2734850038`. The page displays a table of routes:

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	igw-0c04d19326f0d7184	-	No

At the bottom, there are buttons for "Add route", "Cancel", "Preview", and "Save changes".

Feedback Looking for language selection? Find it in the new Unified Settings [?](#)

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Choose the Subnet associations tab

The screenshot shows the AWS VPC Management Console interface. The top navigation bar includes tabs for 'Lab 5 - Introduction to Amazon' and 'VPC Management Console'. The URL is us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-06c006e2734850038. The top bar also features links for 'Getting Started', 'Imported From Fir...', 'Addons', 'New Tab', 'Network Research...', 'IEEE/ACM Internat...', and 'Styles Archives -...'. On the far right, there are user profile and settings icons.

The main navigation sidebar on the left is titled 'Virtual private cloud' and lists several options: Your VPCs, Subnets, Route tables (which is selected), Internet gateways, Egress-only internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections, Security (Network ACLs and Security groups), and Feedback.

The main content area displays a success message: 'Updated routes for rtb-06c006e2734850038 / Public Route Table successfully'. Below this, the 'Subnet associations' tab is selected in the navigation bar, which includes tabs for Routes, Subnet associations, Edge associations, Route propagation, and Tags.

The 'Explicit subnet associations (0)' section contains a search bar labeled 'Find subnet association' and a table header with columns for Subnet ID, IPv4 CIDR, and IPv6 CIDR. A message below the table states 'No subnet associations' and 'You do not have any subnet associations.'

The 'Subnets without explicit associations (2)' section contains a search bar labeled 'Find subnet association' and a table listing two subnets: 'subnet-0874a4852855fbad0 / Private Subnet' (IPv4 CIDR: 10.0.2.0/23) and 'subnet-071fa6193a0038134 / Public Subnet' (IPv4 CIDR: 10.0.0.0/24). A message above the table states 'The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table.'

At the bottom of the page, there are links for 'Feedback', 'Looking for language selection? Find it in the new Unified Settings', '© 2022, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

Select the row with Public Subnet, Choose Save associations

Lab 5 - Introduction to Amazon X VPC Management Console +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-06c006e2734...

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aws Services Search [Option+S] N. Virginia vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

VPC > Route tables > rtb-06c006e2734850038 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2)					
<input type="text"/> Filter subnet associations					
	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	Private Subnet	subnet-0874a4852855fbad0	10.0.2.0/23	-	Main (rtb-01a8ab855d755bc33 / Private Route Table)
<input type="checkbox"/>	Public Subnet	subnet-071fa6193a0038134	10.0.0.0/24	-	Main (rtb-01a8ab855d755bc33 / Private Route Table)

Cancel **Save associations**

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The public subnet is now public

The screenshot shows the AWS VPC Management Console interface. The top navigation bar includes tabs for 'Lab 5 - Introduction to Amazon' and 'VPC Management Console'. The URL is 'us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-06c006e2734850038'. The top right corner shows user information: 'voclabs/user2296696=Yoanes_Bandung @ 4877-0979-6328'.

The left sidebar is titled 'Virtual private cloud' and contains sections for 'Your VPCs', 'Subnets', 'Route tables' (which is currently selected), 'Internet gateways', 'Egress-only internet gateways', 'Carrier gateways', 'DHCP option sets', 'Elastic IPs', 'Managed prefix lists', 'Endpoints', 'Endpoint services', 'NAT gateways', and 'Peering connections'. Below these, under 'Security', are 'Network ACLs' and 'Security groups'.

The main content area displays a success message: 'You have successfully updated subnet associations for rtb-06c006e2734850038 / Public Route Table.' The title of the page is 'rtb-06c006e2734850038 / Public Route Table'. A sub-header says 'You can now check network connectivity with Reachability Analyzer' with a 'Run Reachability Analyzer' button.

The 'Details' section shows route table ID 'rtb-06c006e2734850038', which is 'Main' and 'No' for edge associations. It also shows the VPC 'vpc-0d4b419358340f193 | Lab VPC' and owner ID '487709796328'. Explicit subnet associations are listed as 'subnet-071fa6193a0038134 / Public Subnet'.

The 'Routes' tab is selected, showing two routes. The first route has a destination of '0.0.0.0/0' and a target of 'awsnatgw-0000000000000000'. The second route has a destination of '0.0.0.0/0' and a target of 'ipsec-0000000000000000'. Both routes are in a 'Propagated' state.

At the bottom, there are links for 'https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#tttngs' and copyright information: '© 2022, Amazon Web Services, Inc. or its affiliates.' followed by 'Privacy', 'Terms', and 'Cookie preferences'.

Summary

- ▶ The public subnet is now public because it has a route table entry that sends traffic to the internet via the internet gateway.
- ▶ To summarize, you can create a public subnet by following these steps:
 - ▶ Create an internet gateway.
 - ▶ Create a route table.
 - ▶ Add a route to the route table that directs 0.0.0.0/0 traffic to the internet gateway.
 - ▶ Associate the route table with a subnet, which then becomes a public subnet.

Task 5: Creating a security group for the application server

Lab 5 - Introduction to Amazon X VPC Management Console X +

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

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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 option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

Security Security groups

Security Groups (4) Info

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	-	sg-041ccb6f43632b913	default	vpc-01813920f51368ce5	default VPC security gr...	48770975
<input type="checkbox"/>	-	sg-0bd35666ef2cc62fd	default	vpc-06d8a6beedd3ceaa7	default VPC security gr...	48770975
<input type="checkbox"/>	-	sg-0779255f9ba27f8cc	default	vpc-0d4b419358340f193	default VPC security gr...	48770975
<input type="checkbox"/>	DB-SG	sg-06a570f7602becd61	DB-SG	vpc-06d8a6beedd3ceaa7	Enable access to MySQL	48770975

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Lab 5 - Introduction to Amazon X VPC Management Console X +

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

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aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

VPC > Security Groups > Create security group

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info
App-SG
Name cannot be edited after creation.

Description Info
Allow HTTP Traffic

VPC Info
vpc-01813920f51368ce5

Inbound rules Info

This security group has no inbound rules.

Add rule

Feedback Looking for language selection? Find it in the new Unified Settings 

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Security group was created successfully

The screenshot shows the AWS VPC Management Console with a success message: "Security group (sg-0cc5bc7ac9c427f1c | App-SG) was created successfully".

VPC dashboard (selected)

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 option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups**

Details

sg-0cc5bc7ac9c427f1c - App-SG

Actions

Security group name	Security group ID	Description	VPC ID
App-SG	sg-0cc5bc7ac9c427f1c	Allow HTTP traffic	vpc-0e3c39c2558cbd843

Owner: 487709796328

Inbound rules count: 0 Permission entries

Outbound rules count: 1 Permission entry

Inbound rules

Filter security group rules

Manage tags Edit inbound rules

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Feedback Looking for language selection? Find it in the new Unified Settings

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Edit inbound rules

The screenshot shows the AWS VPC Management Console with the URL us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0309a3941.... The page title is "Edit inbound rules". The breadcrumb navigation shows: VPC > Security Groups > sg-0309a3941340ccb0d - App-SG > Edit inbound rules.

Inbound rules

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>
-	HTTP	TCP	80	Anywh... ▾	Allow web access
<input type="text" value="0.0.0.0/0"/> X					

Add rule

Buttons at the bottom: Cancel, Preview changes, Save rules.

Page footer: Feedback, Looking for language selection? Find it in the new Unified Settings, © 2022, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, Cookie preferences.

Inbound security group rules successfully modified on security group

The screenshot shows the AWS VPC Management Console interface. At the top, there is a success message: "Inbound security group rules successfully modified on security group (sg-0309a3941340ccb0d | App-SG)". Below this, the security group details are displayed:

Security group name	Security group ID	Description	VPC ID
App-SG	sg-0309a3941340ccb0d	Allow HTTP Traffic	vpc-01813920f51368ce5

Owner information is also provided:

Owner	Inbound rules count	Outbound rules count
487709796328	1 Permission entry	1 Permission entry

The "Inbound rules" tab is selected, showing one rule:

Name	Source IP range	Protocol	Port range
Allow HTTP traffic	0.0.0.0/0	TCP	80

At the bottom, there are links for "Feedback", "Language selection", "Privacy", "Terms", and "Cookie preferences".



Task 6: Launching an application server in the public subnet

Lab 5 - Introduction to Amazon X Dashboard | EC2 Management X +

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

Getting Started Imported From Fir... Addons New Tab Network Research... IEEE/ACM Internat... Styles Archives -...

aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

New EC2 Experience Tell us what you think X

EC2 Dashboard

- EC2 Global View
- Events
- Tags
- Limits

Instances

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

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes

Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	0	Dedicated Hosts	0	Elastic IPs	0
Instances	0	Key pairs	1	Load balancers	0 API Error
Placement groups	0	Security groups	5	Snapshots	0
Volumes	0				

i Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#) X

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▾ Migrate a server

Note: Your instances will launch in the US East (N. Virginia) Region

Service health

AWS Health Dashboard

Region
US East (N. Virginia)

Status
✓ This service is operating normally

Zones

Account attributes

Supported platforms

- VPC

Default VPC

vpc-01813920f51368ce5

Settings

EBS encryption

Zones

EC2 Serial Console

Default credit specification

Console experiments

Explore AWS

Enable Best Price-Performance with AWS Graviton2

AWS Graviton2 powered EC2 instances enable up to 40% better price performance for a broad spectrum of cloud workloads. [Learn more](#)

Amazon GuardDuty Malware Protection

GuardDuty now provides agentless malware detection in Amazon EC2 & EC2 container

Feedback Looking for language selection? Find it in the new Unified Settings

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Lab 5 - Introduction to Amazon X EC2 Management Console +

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

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aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S >

Amazon Machine Image (AMI)

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

i Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance

Feedback Looking for language selection? Find it in the new Unified Settings ?

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Lab 5 - Introduction to Amazon X EC2 Management Console +

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

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Instance type [Info](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour

Compare instance types

Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Proceed without a key pair (Not recommended) Default value ▾ [Create new key pair](#)

Network settings [Info](#)

Edit

Network [Info](#)
vpc-01813920f51368ce5

Subnet [Info](#)
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)
Enable

Firewall (security groups) [Info](#)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-0b0dcb5067f052a63

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel [Launch instance](#)

Feedback Looking for language selection? Find it in the new Unified Settings [?](#)

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Lab 5 - Introduction to Amazon X EC2 Management Console +

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

Getting Started Imported From Fir... Addons New Tab Network Research... IEEE/ACM Internat... Styles Archives -...

aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

Network settings Info

VPC - required Info
vpc-0d4b419358340f193 (Lab VPC)
10.0.0.0/16

Subnet Info
subnet-071fa6193a0038134 Public Subnet
VPC: vpc-0d4b419358340f193 Owner: 487709796328 Availability Zone: us-east-1a IP addresses available: 251 CIDR: 10.0.0.0/24

Create new subnet

Auto-assign public IP Info
Enable

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required
launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, _-:/()#,@[]+=;&;!\$*

Description - required Info
launch-wizard-1 created 2022-12-05T14:58:10.125Z

Inbound security groups rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0) Remove

Type Info Protocol Info Port range Info

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0b0dc5067f052a63

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance

Feedback Looking for language selection? Find it in the new Unified Settings

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Lab 5 - Introduction to Amazon X EC2 Management Console +

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

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aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

Network settings Info

VPC - required Info
vpc-0d4b419358340f193 (Lab VPC)
10.0.0.0/16

Subnet Info
subnet-071fa6193a0038134 Public Subnet
VPC: vpc-0d4b419358340f193 Owner: 487709796328 Availability Zone: us-east-1a IP addresses available: 251 CIDR: 10.0.0.0/24

Create new subnet

Auto-assign public IP Info
Enable

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
 Create security group Select existing security group

Common security groups Info
Select security groups
default sg-0779255f9ba27f8cc X
VPC: vpc-0d4b419358340f193

Compare security group rules

Advanced network configuration

Network interface 1

Device index Info 0 Network interface Info New interface Description Info

Summary

Number of instances Info 1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI... read more ami-0b0dc5067f052a63

Virtual server type (instance type)
t2.micro

Firewall (security group)
default

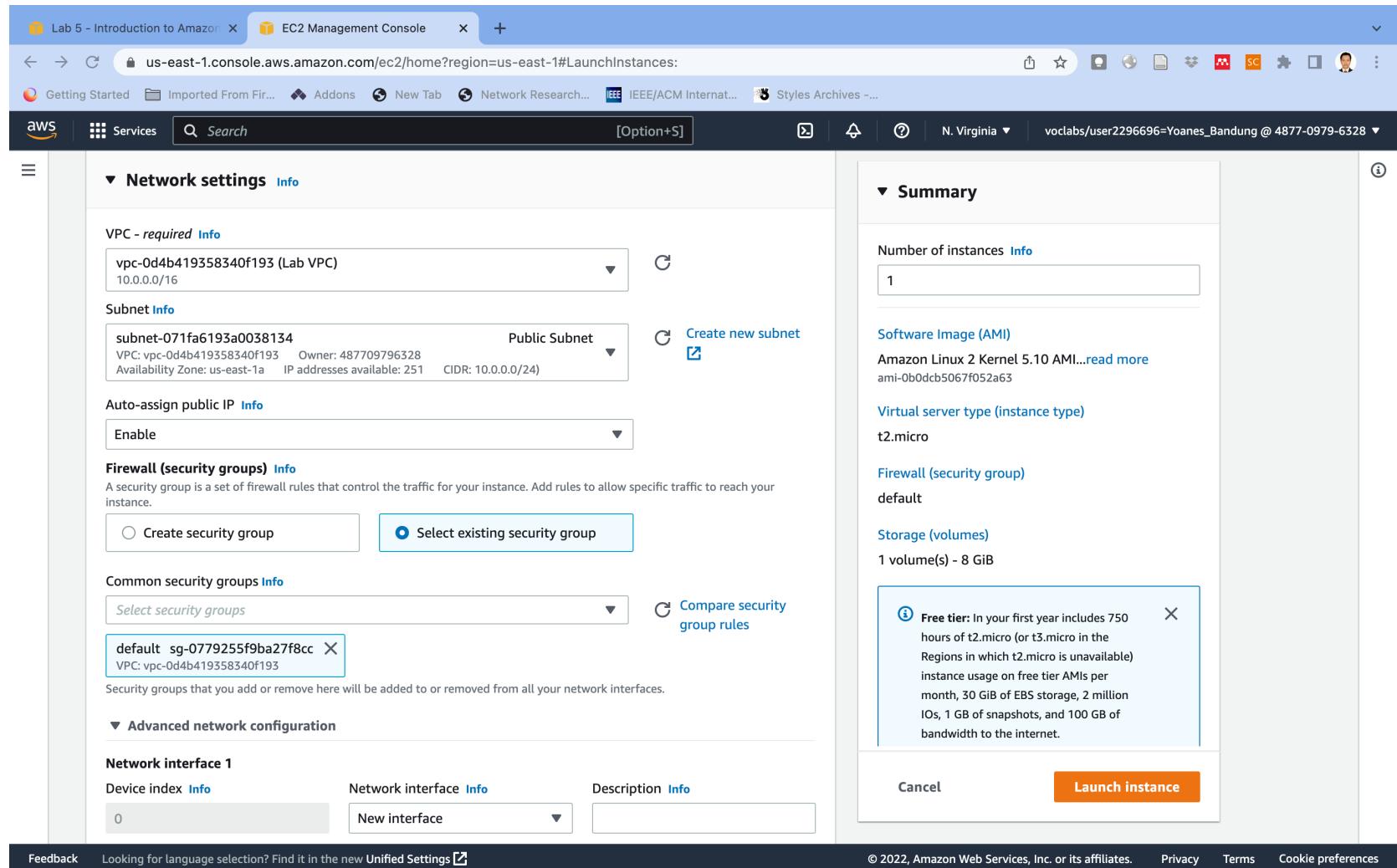
Storage (volumes)
1 volume(s) - 8 GiB

i Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance

Feedback Looking for language selection? Find it in the new Unified Settings X

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Lab 5 - Introduction to Amazon X EC2 Management Console +

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

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aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

0 x File systems Edit

▼ Advanced details Info

Purchasing option Info

Request Spot Instances

Request Spot Instances at the Spot price, capped at the On-Demand price

Domain join directory Info

Select Create new directory

IAM instance profile Info

Inventory-App-Role arn:aws:iam::487709796328:instance-profile/Inventory-App-Role

Create new IAM profile

Hostname type Info

IP name

DNS Hostname Info

Enable IP name IPv4 (A record) DNS requests

Enable resource-based IPv4 (A record) DNS requests

Enable resource-based IPv6 (AAAA record) DNS requests

Instance auto-recovery Info

Select

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more ami-0b0dcb5067f052a63

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance

Feedback Looking for language selection? Find it in the new Unified Settings

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Lab 5 - Introduction to Amazon X EC2 Management Console +

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

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aws Services Search [Option+S] N. Virginia v vocabs/user2296696=Yoanes_Bandung @ 4877-0979-6328 ▾

Select

Metadata version [Info](#)

Select

Metadata response hop limit [Info](#)

Select

Allow tags in metadata [Info](#)

Select

User data [Info](#)

```
#!/bin/bash
# Install Apache Web Server and PHP
yum install -y httpd mysql
amazon-linux-extras install -y php7.2
# Download Lab files
wget https://aws-tc-largeobjects.s3-us-west-2.amazonaws.com/ILT-TF-200-
ACACAD-20-EN/mod6-guided/scripts/inventory-app.zip
unzip inventory-app.zip -d /var/www/html/
# Download and install the AWS SDK for PHP
wget https://github.com/aws/aws-sdk-php/releases/download/3.62.3/aws.zip
unzip aws -d /var/www/html
# Turn on web server
chkconfig httpd on
service httpd start
```

User data has already been base64 encoded

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-0b0dc5067f052a63

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel **Launch instance**

Feedback Looking for language selection? Find it in the new Unified Settings [?](#)

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Choose View all instances

The screenshot shows a browser window for the AWS EC2 service. The title bar indicates the user is on the 'Launch an instance | EC2 Man' tab. The URL is 'us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances'. The top navigation bar includes links for 'Getting Started', 'Imported From Fir...', 'Addons', 'New Tab', 'Network Research...', 'IEEE/ACM Internat...', and 'Styles Archives -...'. The AWS logo and 'Services' link are also present. The user is signed in as 'N. Virginia' and has a session ID 'voclabs/user2296696=Yoanes_Bandung @ 4877-0979-6328'.

The main content area shows a success message: 'Successfully initiated launch of instance (i-0d15f5d203e6d2d8c)'. Below this, there is a link to 'Launch log'.

A section titled 'Next Steps - preview' follows, featuring a search bar with placeholder text 'Search for next steps including taking action on the launched instances'. Below the search bar, a note states: 'The next steps search functionality only searches on a subset of possible steps. You can potentially find other matches for your search by using the search at the top of the page or by browsing the console'.

The 'Next Steps' section contains three cards:

- Create billing and free tier usage alerts**
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)
- Connect to your instance**
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)
- Connect an RDS database**
New
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

At the bottom of the page, there are links for 'Feedback', 'Looking for language selection? Find it in the new Unified Settings', '© 2022, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

Instance State: Running

The screenshot shows the AWS EC2 Management console interface. The browser tab is titled "Lab 5 - Introduction to Amazon" and the sub-tab is "Instances | EC2 Management". The URL is "us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:". The AWS logo is at the top left, followed by "Services" and a search bar. The main navigation bar includes "New EC2 Experience" (with a feedback link), "Instances (1) Info", "Connect", "Instance state", "Actions", "Launch instances", and a dropdown. On the left, a sidebar lists "EC2 Dashboard", "EC2 Global View", "Events", "Tags", "Limits", and sections for "Instances" (including "Instances", "Instance Types", "Launch Templates", "Spot Requests", "Savings Plans", "Reserved Instances", "Dedicated Hosts", "Scheduled Instances", "Capacity Reservations"), "Images" (AMIs, AMI Catalog), and "Elastic Block Store" (Volumes). The main content area displays a table for "Instances (1) Info" with one row:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Pub...
App Server	i-0d15f5d203e6d2d8c	Running	t2.micro	Initializing	No alarms	us-east-1a	ec2...

Below the table, a modal window titled "Select an instance" is open. At the bottom of the page, there are links for "Feedback", "Language selection", "© 2022, Amazon Web Services, Inc. or its affiliates.", "Privacy", "Terms", and "Cookie preferences".

Select App Server

The screenshot shows the AWS EC2 Management console interface. The top navigation bar includes tabs for 'Lab 5 - Introduction to Amazon' and 'Instances | EC2 Management'. The main content area displays the 'Instances (1/1) Info' page. A table lists a single instance named 'App Server' with the ID 'i-0d15f5d203e6d2d8c'. The instance is shown as 'Running' with the type 't2.micro'. Below the table, the 'Instance: i-0d15f5d203e6d2d8c (App Server)' details page is open, showing various configuration parameters like Instance ID, Public IP, and Instance type.

Instances (1/1) [Info](#)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
App Server	i-0d15f5d203e6d2d8c	Running	t2.micro	Initializing	No alarms	us-east-1a	ec2-34-207-244-222.compute-1.amazonaws.com

Instance: i-0d15f5d203e6d2d8c (App Server)

Details	Security	Networking	Storage	Status checks	Monitoring	Tags
Instance summary						
Instance ID i-0d15f5d203e6d2d8c (App Server)	Public IPv4 address 34.207.244.222 open address	Private IPv4 addresses 10.0.0.11				
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-34-207-244-222.compute-1.amazonaws.com open address				
Hostname type IP name: ip-10-0-0-11.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-0-11.ec2.internal	Elastic IP addresses -				
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding User: arn:aws:sts::487709796328:assumed-role/voclabs/us				
Auto-assigned IP address 34.207.244.222 [Public IP]	VPC ID vpc-0b3696c80cbfb9e2 (Lab VPC)					

Feedback Looking for language selection? Find it in the new Unified Settings [\[link\]](#)

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From the Details tab, copy the Public IPv4 address address

- ▶ Paste 34.207.244.222 to your browser
- ▶ If you configured the VPC correctly, the Inventory application and this message should appear: **Please configure Settings to connect to database.** You have not configured any database settings yet, but the appearance of the Inventory application demonstrates that the public subnet was correctly configured.
- ▶ If the Inventory application does not appear, wait for 60 seconds and refresh the page to try again. It can take a couple of minutes for the EC2 instance to boot and run the script that installs the software.

Lab 5 - Introduction to Amazon X Instances | EC2 Management X 34.207.244.222 X

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

Getting Started Imported From Fir... Addons New Tab Network Research... IEEE/ACM Internat... Styles Archives -...

AWS Services Search [Option+S]

New EC2 Experience Tell us what you think X

EC2 Dashboard EC2 Global View Events Tags Limits

Instances (1) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
App Server	i-0d15f5d203e6d2d8c	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-

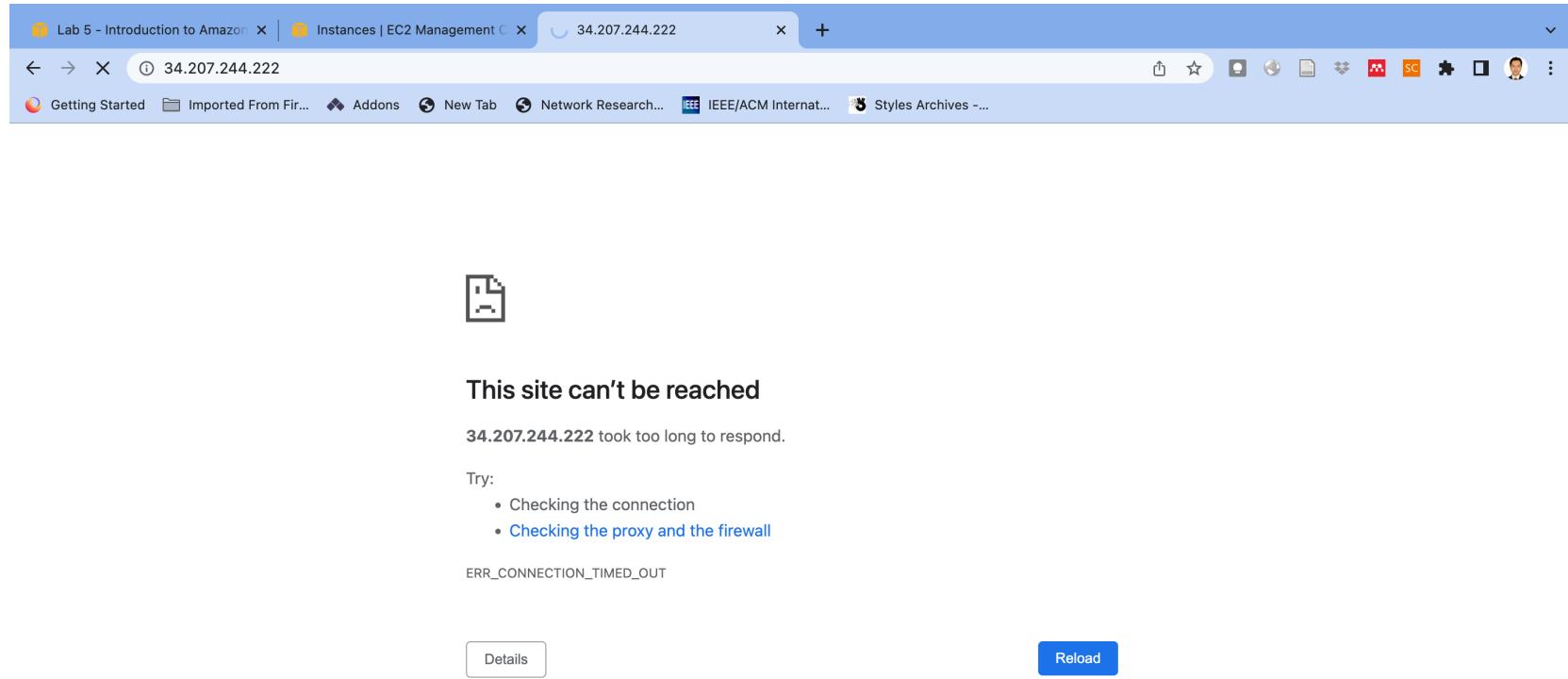
Select an instance

Feedback Looking for language selection? Find it in the new Unified Settings

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The screenshot shows the AWS EC2 Management console. The main view displays a single instance named "App Server" with the ID "i-0d15f5d203e6d2d8c". The instance is currently running and is of type "t2.micro". It has passed 2/2 health checks. The instance is located in the "us-east-1a" availability zone. The sidebar on the left provides navigation links for various AWS services like EC2 Dashboard, Global View, and Instances.

Refresh the page to try again



Submitting your work

The screenshot shows a web browser window with the URL awseducate.instructure.com/courses/746/assignments/3109?module_item_id=13261. The page title is "Lab 5 - Introduction to Amazon Virtual Private Cloud (Amazon VPC)". The browser toolbar includes tabs for "Lab 5 - Introduction to Amazon" and "Instances | EC2 Management". The main content area displays the assignment details:

- EDC101v... > Assignments**
- Lab 5 - Introduction to Amazon Virtual Private Cloud (Amazon VPC)**
- Due**: No Due Date
- Points**: 100
- Submitting**: an external tool

Below the assignment details is a form with a dropdown menu set to "EN-US". To the right of the form is a terminal window showing bash command outputs:

```
ddd_v1_w_lvu_1834270@runweb67415:~$  
ddd_v1_w_lvu_1834270@runweb67415:~$  
ddd_v1_w_lvu_1834270@runweb67415:~$
```

At the bottom of the terminal window, there are checkboxes for "Files", "README", "Terminal", and "Source". To the right of the terminal window is a sidebar with the following sections and scores:

- Total score**: 35/45
- [Task 1] Lab VPC CIDR
- [Task 2A] Public Subnet
- [Task 2B] Auto-Assign Public IP
- [Task 2C] Private Subnet CIDR
- [Task 3] Lab VPC has IGW
- [Task 4A] Lab VPC has Private Route Tab

At the bottom of the page are navigation buttons: "◀ Previous" and "Next ▶".

THANK
YOU

