

# VPC, Subnet, Gateway Assignment

Scribe 

## What is a VPC



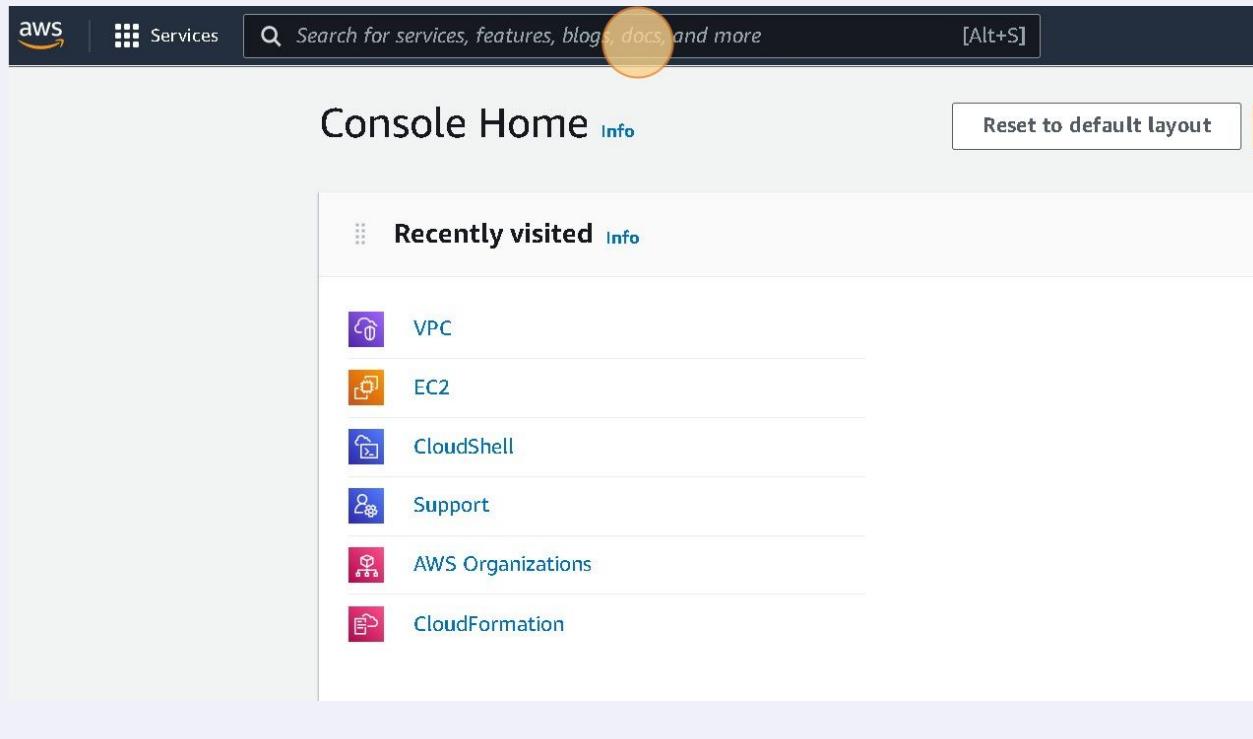
A virtual private cloud (VPC) is a virtual network dedicated to your AWS account. It is logically isolated from other virtual networks in the AWS Cloud. You can launch your AWS resources, such as Amazon EC2 instances, into your VPC.

## How to create a VPC?

1

Navigate to  
<https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1>

- 2** Click the "Search for services, features, blogs, docs, and more" field.



- 3** Type "vpc"

4 Click "VPC"

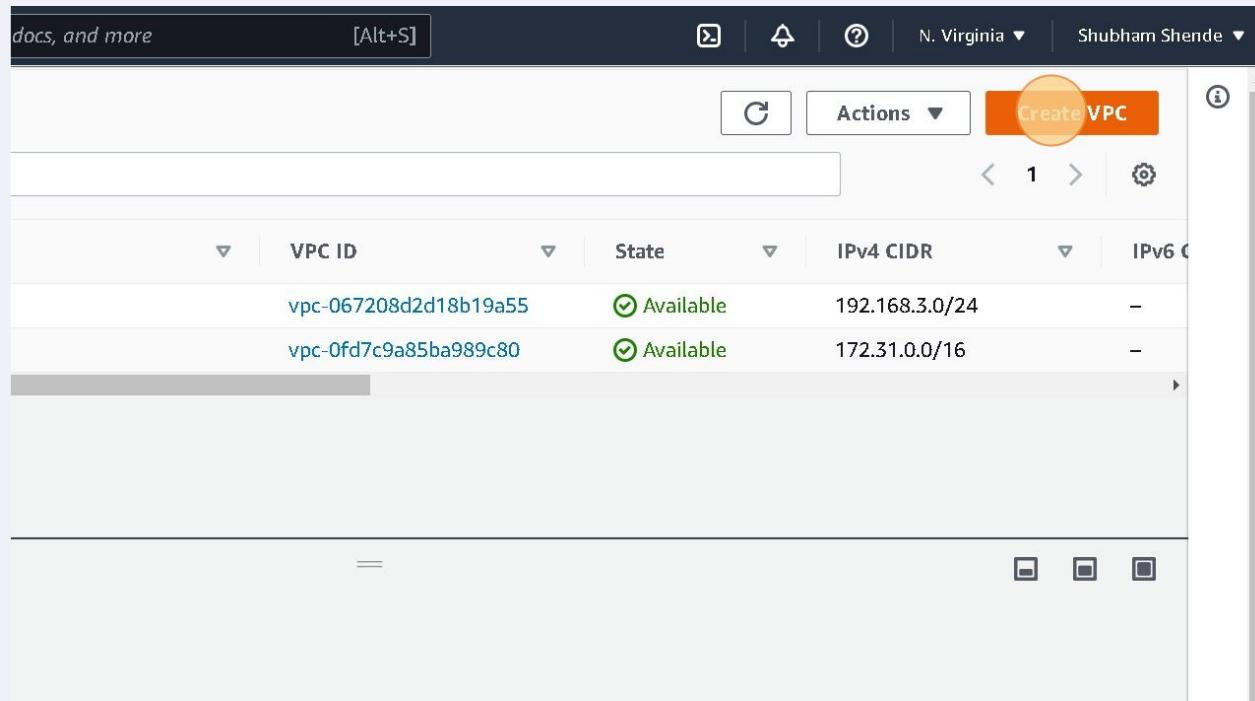
The screenshot shows the AWS search interface with the query 'vpc'. The results page displays various services and features. The 'Services' section lists 11 items, including 'Features (29)', 'Blogs (613)', 'Documentation (53,361)', 'Knowledge Articles (30)', 'Tutorials (6)', 'Events (12)', and 'Marketplace (361)'. Below this, the 'Top features' section highlights three services: 'VPC' (Isolated Cloud Resources), 'Amazon VPC IP Address Manager' (Managed IP address management service), and 'AWS Network Firewall' (AWS Network Firewall). The 'VPC' card is circled in orange.

5 Click "VPCs"

The screenshot shows the AWS VPC dashboard. On the left, there's a sidebar with a 'New VPC Experience' toggle and a 'VPC dashboard' section. The main area displays a 'Create VPC' button and a 'Launch EC2 Instances' button. A note states: 'Note: Your instances will launch in the US East region.' Below this, the 'Resources by Region' section shows the following Amazon VPC resources:

Resource Type	Region	Count
VPCs	US East	2
NAT Gateways	US East	0
Subnets	US East	7
VPC Peering Connections	US East	0
Route Tables	US East	4
Network ACLs	US East	2
Internet Gateways	US East	3

**6** Click "Create VPC"



**7** Type "Dragos\_VPC"

8 Click the "IPv4 CIDR" field.

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

Dragos\_VPC

IPv4 CIDR block [Info](#)

IPv4 CIDR manual input  
 IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/24

IPv6 CIDR block [Info](#)

No IPv6 CIDR block  
 IPAM-allocated IPv6 CIDR block  
 Amazon-provided IPv6 CIDR block  
 IPv6 CIDR owned by me

Tenancy [Info](#)

Default ▾

9 Click the "IPv4 CIDR" field and enter the IP Address Provided by the client.

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

Dragos\_VPC

IPv4 CIDR block [Info](#)

IPv4 CIDR manual input  
 IPAM-allocated IPv4 CIDR block

IPv4 CIDR

192.168.1.0/24

IPv6 CIDR block [Info](#)

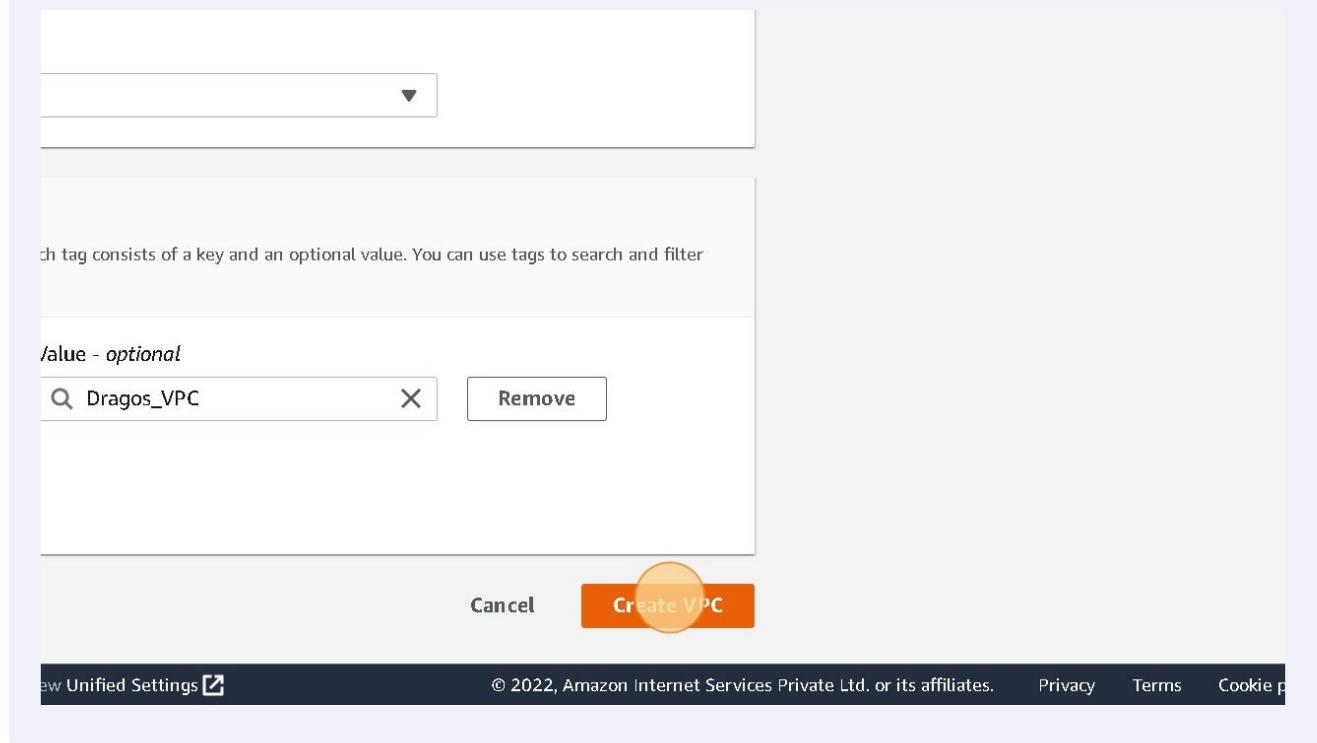
No IPv6 CIDR block  
 IPAM-allocated IPv6 CIDR block  
 Amazon-provided IPv6 CIDR block  
 IPv6 CIDR owned by me

Tenancy [Info](#)

Default ▾

10

Click "Create VPC"



## What is subnet?



A subnet is a range of IP addresses in your VPC. You can launch AWS resources into a specified subnet. Use a public subnet for resources that must be connected to the internet, and a private subnet for resources that won't be connected to the internet.



Depending on how you configure your VPC, subnets are considered public, private, or VPN-only: Public subnet: The subnet traffic is routed to the public internet through an internet gateway or an egress-only internet gateway. For more information, see [Connect to the internet using an internet gateway](#). Private subnet: The subnet traffic can't reach the public internet through an internet gateway or egress-only internet gateway. Access to the public internet requires a NAT device.

## Creating a Public Subnet

## 11 Click "Subnets"

The screenshot shows the AWS VPC dashboard. On the left, there's a sidebar with 'Your VPCs' and a 'Virtual private cloud' section containing links for Subnets, Route tables, Internet gateways, Egress-only internet gateways, Carrier gateways, DHCP Option Sets, Elastic IPs, and Managed prefix lists. The 'Subnets' link is highlighted with a yellow circle. The main content area shows the details for a VPC with ID 'vpc-00d8e07328ec44977'. The 'Details' tab is selected, displaying information such as State (Available), Tenancy (Default), Default VPC (No), and IPv4 CIDR (192.168.1.0/24). The 'DNS hostnames' section shows 'Disabled'.

## 12 Click "Create subnet"

The screenshot shows the AWS Subnet creation interface. At the top, there's a toolbar with a search bar, user information (N. Virginia, Shubham Shende), and a 'Create subnet' button, which is highlighted with a yellow circle. Below the toolbar is a table listing existing subnets. The columns are Subnet ID, State, VPC, and IPv4 CIDR. The table contains five rows of data.

Subnet ID	State	VPC	IPv4 CIDR
subnet-0b049457f465cccc	Available	vpc-0fd7c9a85ba989c80   Pro...	172.31.32
subnet-0b078d7efb22bcf89	Available	vpc-0fd7c9a85ba989c80   Pro...	172.31.64
subnet-0d966354b4ab944d1	Available	vpc-0fd7c9a85ba989c80   Pro...	172.31.0.0
subnet-05d6fcaaa26dc7fc1	Available	vpc-0fd7c9a85ba989c80   Pro...	172.31.80
subnet-0c03b65f97f4ff1ca	Available	vpc-0fd7c9a85ba989c80   Pro...	172.31.16

**13** Click "Select a VPC"

VPC > Subnets > Create subnet

## Create subnet Info

**VPC**

**VPC ID**  
Create subnets in this VPC.

Select a VPC

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

Select a VPC first to create new subnets.

Add new subnet

**14** Click "vpc-00d8e07328ec44977 (Dragos\_VPC)"

## Create subnet Info

**VPC**

**VPC ID**  
Create subnets in this VPC.

Select a VPC

Q

vpc-00d8e07328ec44977 (Dragos\_VPC)  
192.168.1.0/24

vpc-067208d2d18b19a55 (SOC L2)  
192.168.3.0/24

vpc-0fd7c9a85ba989c80 (Production L2) (default)  
172.31.0.0/16

Add new subnet

Cancel

Create subnet

- 15** Click the "Subnet name" field.

The screenshot shows the AWS Management Console with the Services menu open. The search bar contains the text "Search for services, features, blogs, docs, and more". The [Alt+S] key combination is shown in the top right corner. The main content area is titled "Subnet settings" and displays "Specify the CIDR blocks and Availability Zone for the subnet". A section for "Subnet 1 of 1" is shown, containing fields for "Subnet name" (with value "my-subnet-01"), "Availability Zone" (set to "No preference"), and "IPv4 CIDR block" (set to "10.0.0.0/24"). An optional "Tags" section is also present. An orange circle highlights the "my-subnet-01" input field.

- 16** Type "Dragos\_Public\_Subnet"

17

Click "No preference"

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

Dragos\_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.

No preference

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

▼ Tags - optional

Key	Value - optional
Name	Dragos_Public_Subnet

Add new tag

You can add 49 more tags.

18

Click "US East (N. Virginia) / us-east-1a"

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

Dragos\_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.

No preference



No preference

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

ID: use1-az6 Network border group: us-east-1

us-east-1

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

ID: use1-az1 Network border group: us-east-1

us-east-1

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

ID: use1-az2 Network border group: us-east-1

us-east-1

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

ID: use1-az4 Network border group: us-east-1

us-east-1

US East (N. Virginia) / us-east-1e

ID: use1-az3 Network border group: us-east-1

us-east-1

US East (N. Virginia) / us-east-1f

us-east-1

Remove

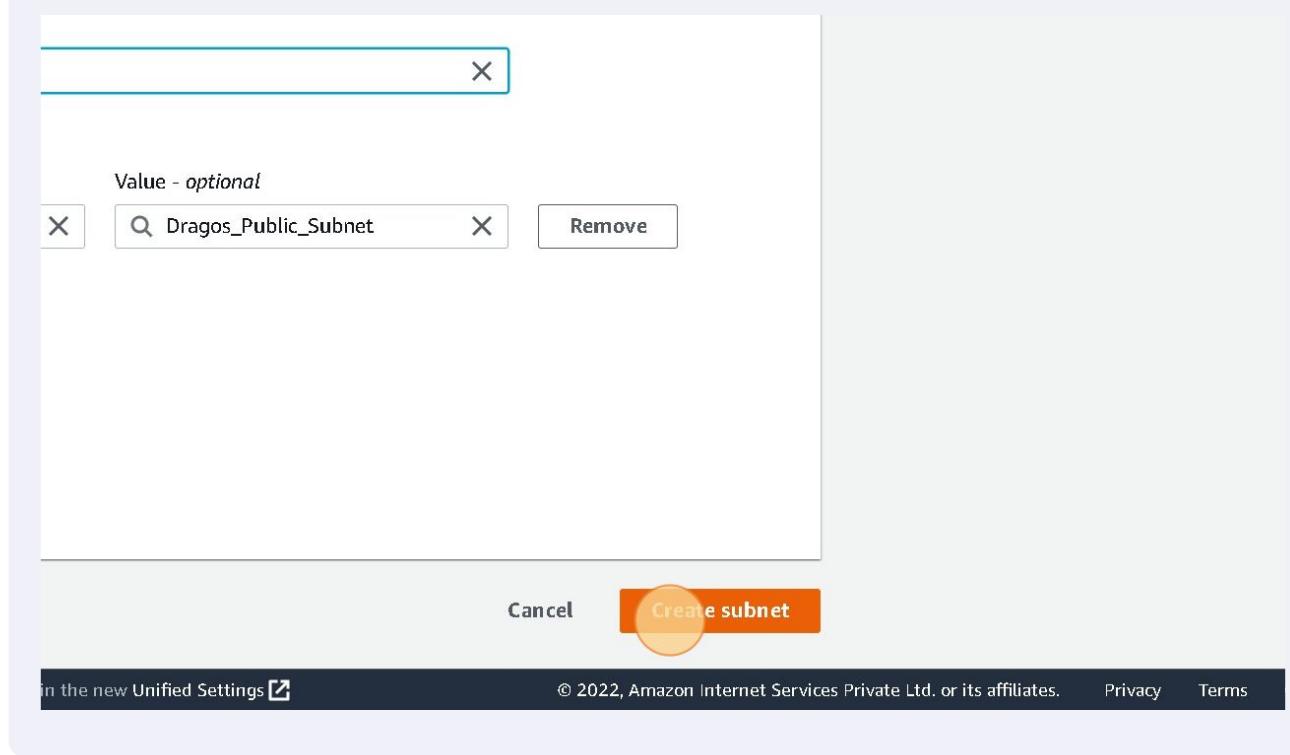
- 19 Click the "IPv4 CIDR blockInfo" field.

The screenshot shows the AWS Subnet creation interface. The 'IPv4 CIDR block' input field, which contains '10.0.0.0/24', is highlighted with a yellow circle. Other visible fields include 'Name' (Dragos\_Public\_Subnet), 'Availability Zone' (US East (N. Virginia) / us-east-1a), and 'Tags' (optional, with one tag added: Name=Dragos\_Public\_Subnet).

- 20 Enter "192.168.1.0/25"

The screenshot shows the AWS Subnet creation interface. The 'IPv4 CIDR block' input field, which contains '192.168.1.0/25', is highlighted with a yellow circle. Other visible fields include 'Name' (Dragos\_Public\_Subnet), 'Availability Zone' (US East (N. Virginia) / us-east-1a), and 'Tags' (optional, with one tag added: Name=Dragos\_Public\_Subnet). The '192.168.1.0/25' entry is also highlighted with a yellow circle.

**21** Click "Create subnet"



Creating Private Subnet?

**22** Click "Create subnet"

Screenshot of the AWS Subnets page. A green banner at the top says "Created 1 subnet: subnet-0c33be3aad1de424f". Below it, there's a table with one row of data. At the bottom right of the table, there's an orange "Create subnet" button, which is highlighted with a yellow circle.

Subnet ID	State	VPC	IPv4 CIDR
subnet-0c33be3aad1de424f	Available	vpc-00d8e07328ec44977   Dra...	192.168.1.0/24

**23** Click "Select a VPC"

VPC > Subnets > Create subnet

## Create subnet Info

### VPC

#### VPC ID

Create subnets in this VPC.

Select a VPC

### Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Select a VPC first to create new subnets.

Add new subnet

**24** Click here.

VPC

VPC ID  
Create subnets in this VPC.

Select a VPC

vpc-00d8e07328ec44977 (Dragos\_VPC)  
192.168.1.0/24

vpc-067208d2d18b19a55 (SOC L2)  
192.168.3.0/24

vpc-0fd7c9a85ba989c80 (Production L2) (default)  
172.31.0.0/16

Add new subnet

Cancel Create subnet

**25** Click the "Subnet name" field.

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.  
my-subnet-01

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.  
No preference

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

**26** Type "Dragos\_Private\_Subnet"

**27** Click "No preference"

### Subnet 1 of 1

#### Subnet name

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

Dragos\_Private\_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.

No preference

#### IPv4 CIDR block [Info](#)

10.0.0.0/24

#### ▼ Tags - optional

##### Key

Name

##### Value - optional

Dragos\_Private\_Subnet

[Remove](#)

Add new tag

## 28 Click "US East (N. Virginia) / us-east-1a"

The screenshot shows the AWS Services search interface. The search bar at the top contains the text "Search for services, features, blogs, docs, and more". Below the search bar, the results for "us-east-1" are displayed. The first result, "US East (N. Virginia) / us-east-1a", has its name and ID ("ID: use1-az6") highlighted with a yellow circle. The result is grouped under "Network border group: us-east-1". Other results listed include "us-east-1b", "us-east-1c", "us-east-1d", and "us-east-1e", all under "us-east-1". At the bottom of the list, there is a "No preference" option.

## 29 Double-click here.

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

Dragos\_Private\_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

Key

Name

Value - optional

Dragos\_Private\_Subnet

[Remove](#)

[Add new tag](#)

You can add 49 more tags.

[Remove](#)

**30** Click the "IPv4 CIDR blockInfo" field.

**31** Click here.

Dragos\_Private\_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](#)

192.168.1.128/25 X

192.168.1.128/25

Key Value - optional

Name Dragos\_Private\_Subnet X Remove

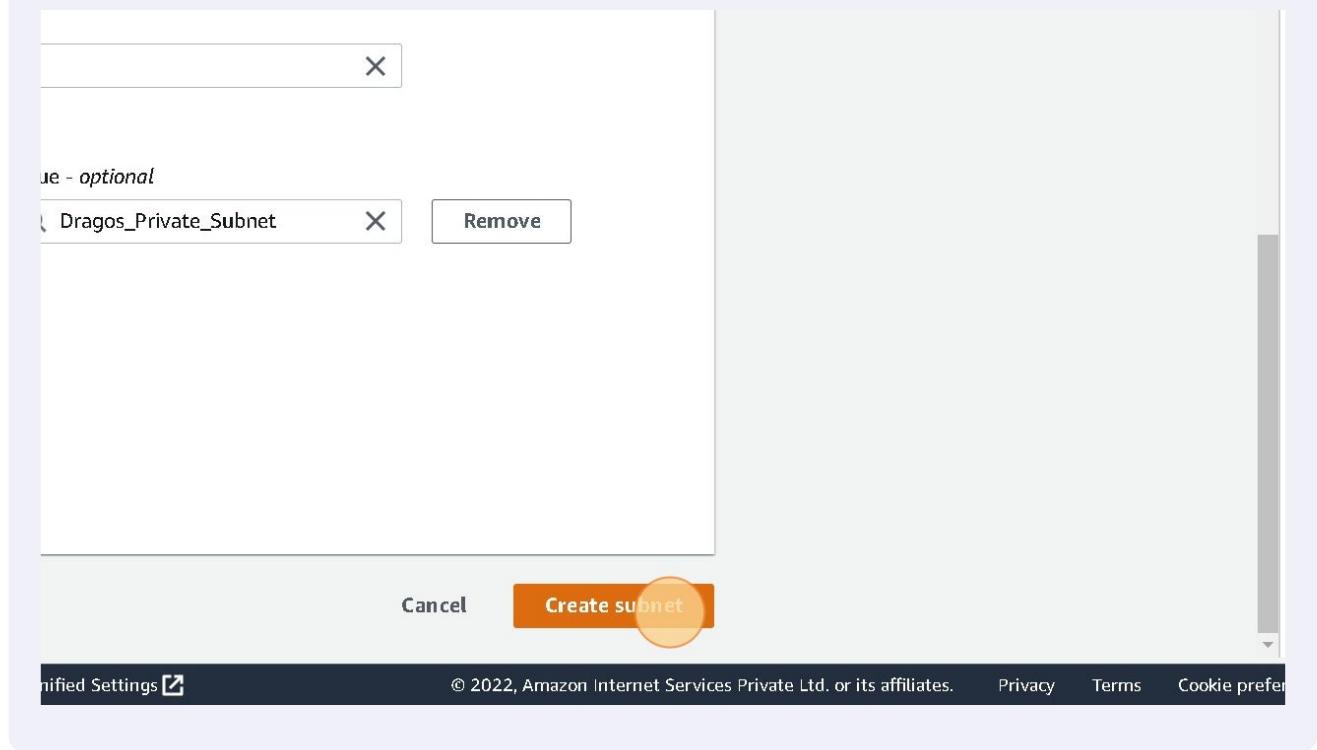
Add new tag

You can add 49 more tags.

Remove

32

Click "Create subnet"



## Internet Gateway



An internet gateway enables resources (like EC2 instances) in your public subnets to connect to the internet if the resource has a public IPv4 address

**33** Click "Internet gateways"

The screenshot shows the AWS EC2 Global View interface. On the left, there's a sidebar with options like 'Virtual private cloud', 'Your VPCs', 'Subnets' (which is highlighted in orange), 'Route tables', 'Internet gateways' (also highlighted in orange), 'Egress-only internet gateways', 'Carrier gateways', 'DHCP Option Sets', 'Elastic IPs', 'Managed prefix lists', and 'AWS Lambda services'. The main area is titled 'Subnets' and shows a table with columns: Name, Subnet ID, and State. One row is selected, showing 'Dragos\_Private\_Sub...' with 'subnet-01f296ca0689b71b0' and 'Available'. There's also a 'Select a subnet' dropdown below the table.

**34** Click "Create internet gateway"

The screenshot shows the AWS CloudFormation console. At the top, there's a search bar with 'docs, and more' and an 'Actions' button. Below it is a table with three rows. The first row has a 'Create internet gateway' button highlighted with an orange circle. The table columns are: Internet gateway ID, State, and VPC ID. The rows show: 'igw-03efb3c9ca5266180' (Attached, 'vpc-067208d2d18b19a55 | SOC L2'), 'igw-07be54a3c75fbf903' (Detached, '-'), and 'igw-085374dec70e6e01b' (Attached, 'vpc-0fd7c9a85ba989c80 | Production L2'). At the bottom, there's a note '/ above'.

- 35** Click the "Name tag" field.

## 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.

my-internet-gateway

#### 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.

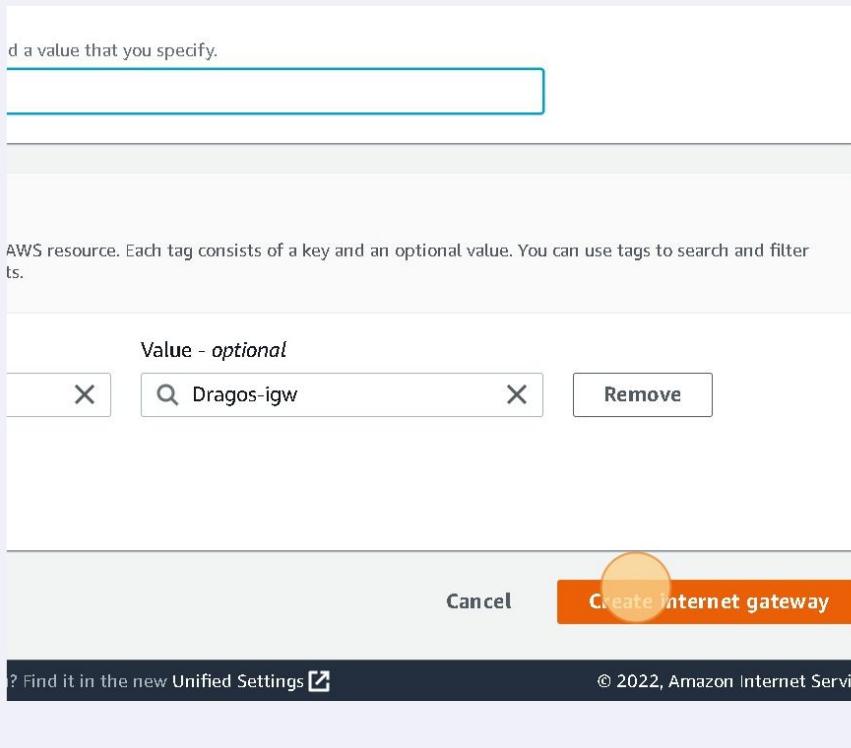
No tags associated with the resource.

Add new tag

- 36** Type "Dragos-igw"

37

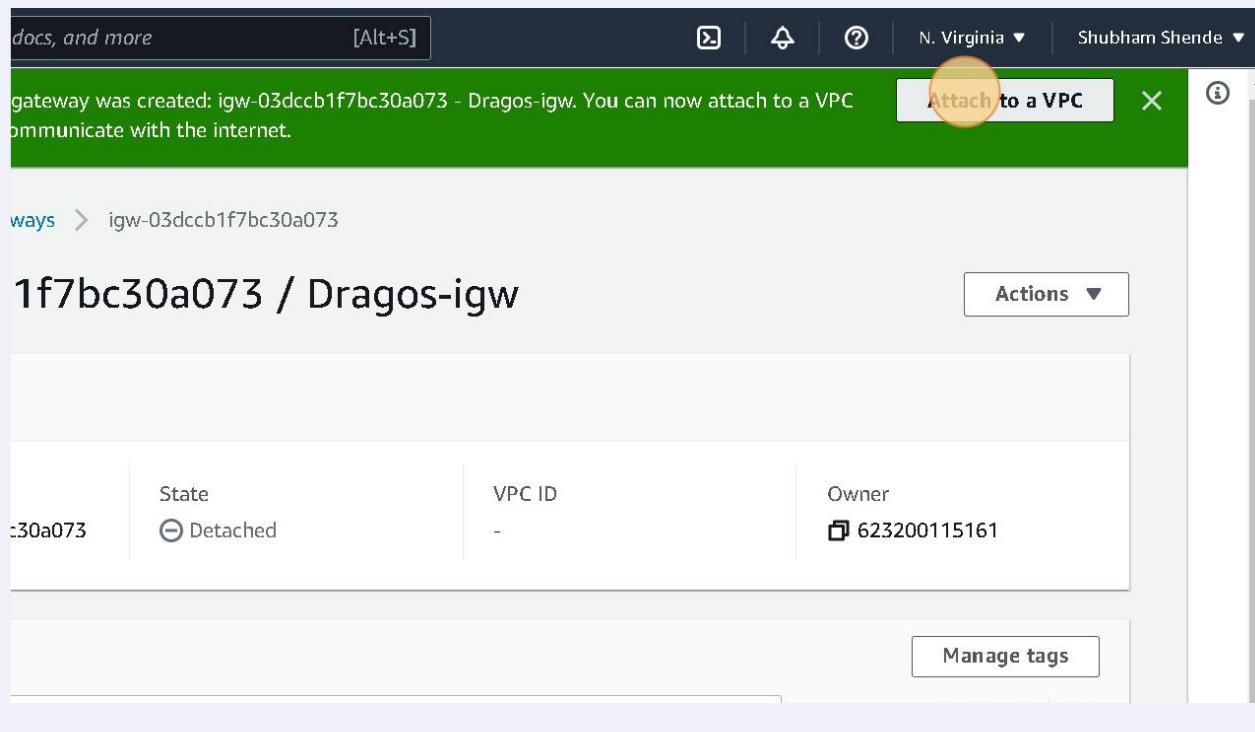
Click "Create internet gateway"



To enable access to or from the internet for instances in a subnet in a VPC, you must do the following.

- Create an internet gateway and attach it to your VPC.

**38** Click "Attach to a VPC"



**39** Click the "Available VPCs" field.

VPC > Internet gateways > Attach to VPC (igw-03dccb1f7bc30a073)

### Attach to VPC (igw-03dccb1f7bc30a073) 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.

Select a VPC

▶ AWS Command Line Interface command

Cancel

Attach internet gateway

**40** Click "vpc-00d8e07328ec44977 - Dragos\_VPC"

## Attach to VPC (igw-03dccb1f7bc30a073) 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.

 Select a VPC

vpc-00d8e07328ec44977 - Dragos\_VPC

▶ AWS Command Line Interface command

[Cancel](#)

[Attach internet gateway](#)

**41** Click "Attach internet gateway"

able the VPC to communicate with the internet. Specify the VPC to attach below.

X

command

[Cancel](#)

[Attach internet gateway](#)

# Creating an EC2 Instance

42

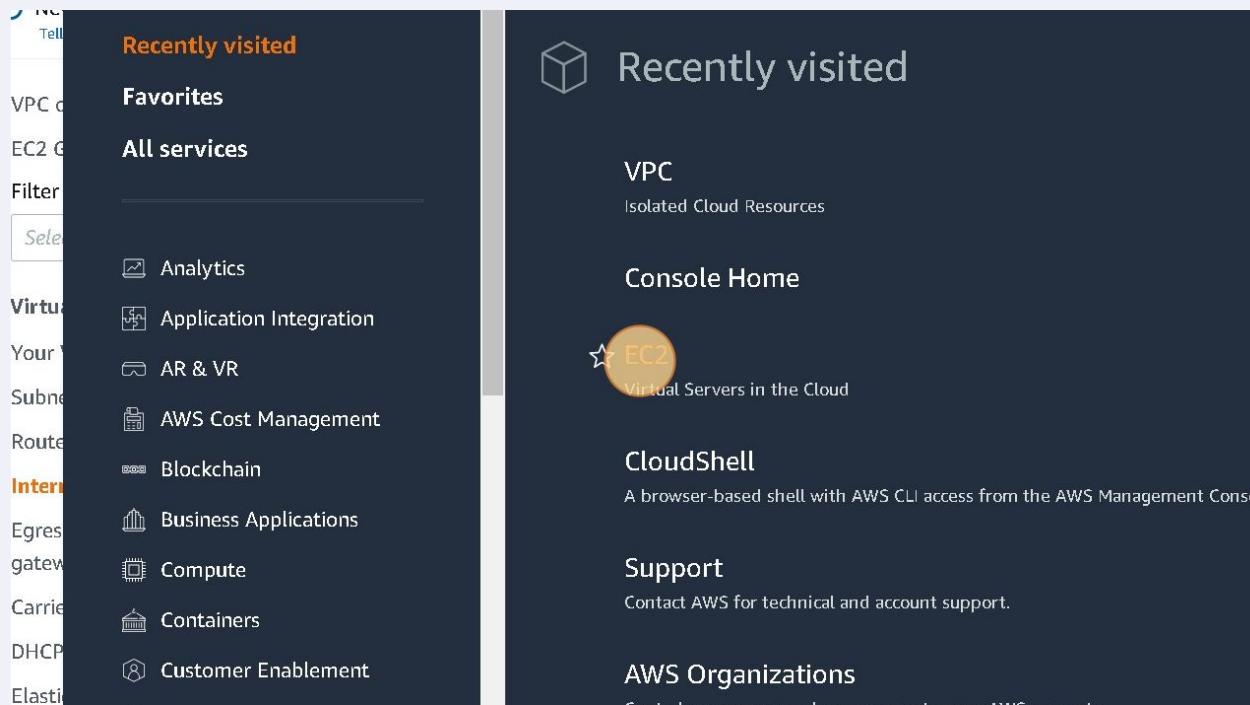
Click "Services"

The screenshot shows the AWS Services console with the "Services" tab selected. A green banner at the top right indicates that an Internet gateway has been successfully attached to a VPC. The main content area displays the "Details" tab for an Internet gateway named "igw-03dccb1f7bc30a073 / Dragos-igw". The details shown are:

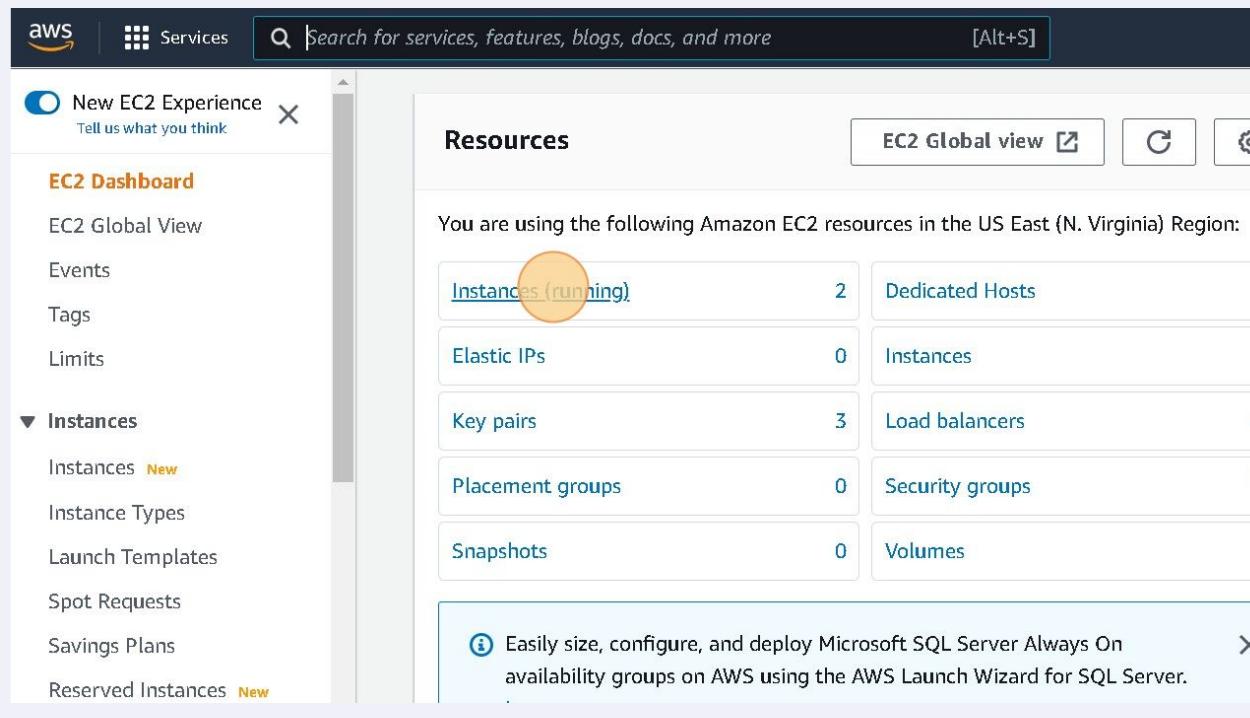
Internet gateway ID	State	VPC ID
igw-03dccb1f7bc30a073	Attached	vpc-00d8e0732 Dragos_VPC

The left sidebar shows the navigation path: VPC > Internet gateways > igw-03dccb1f7bc30a073. The "Virtual private cloud" section is expanded, showing options like Your VPCs, Subnets, Route tables, Internet gateways (which is selected), Egress-only internet gateways, and Carrier gateways.

43 Click "EC2"



44 Click here.



45 Click "Launch instances"

The screenshot shows the AWS EC2 Instances page. At the top, there's a navigation bar with 'docs, and more' and '[Alt+S]'. On the right, it shows 'N. Virginia' and 'Shubham Shende'. Below the navigation bar, there are several buttons: 'Connect', 'Instance state ▾', 'Actions ▾', and a prominent orange 'Launch instances' button, which is circled in yellow. There are also '< 1 >' and a gear icon. A 'Clear filters' button is visible on the left. The main area displays a table of instances:

Instance ID	Instance state	Instance type	Status check	Alarm status	A
i-0aefc0c60c164ed5d	Running	t2.micro	2/2 checks passed	No alarms	+
i-00918ae6420c6197a	Running	t2.micro	2/2 checks passed	No alarms	+

46 Click the "Name" field.

## Launch an instance Info

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

### Name and tags Info

Name

e.g. My Web Server

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

Feedback

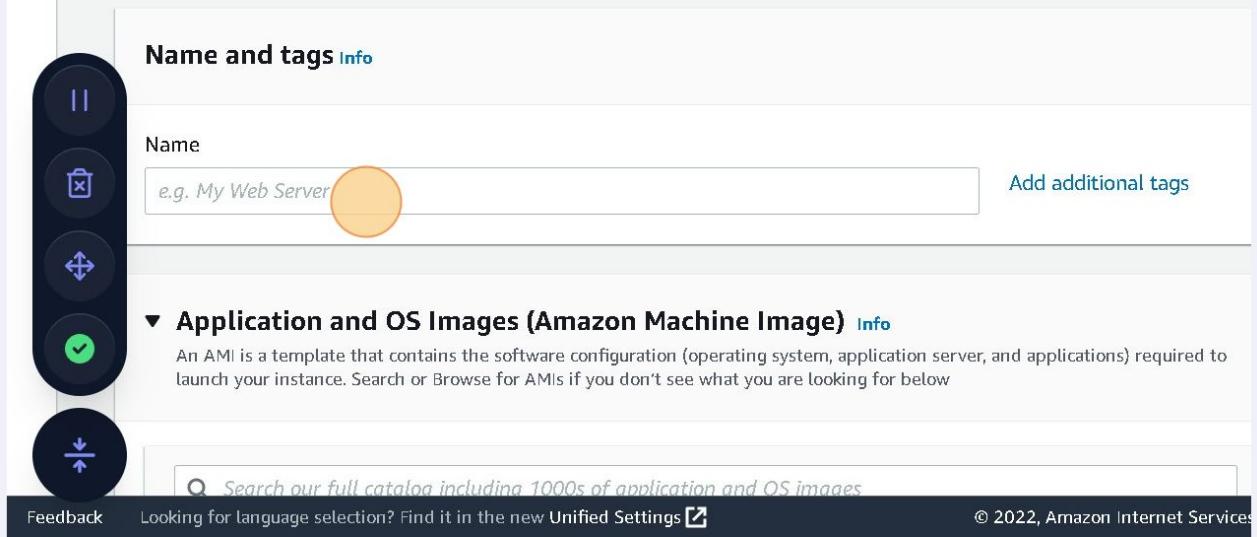
Looking for language selection? Find it in the new Unified Settings

© 2022, Amazon Internet Services

**47** Click the "Name" field.

## Launch an instance Info

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



The screenshot shows the 'Name and tags' step of the EC2 instance launch wizard. On the left, there's a vertical sidebar with five circular icons: a play/pause button, a trash can, a double arrow, a checkmark, and a downward arrow. The 'Name' field is highlighted with a yellow circle. To the right of the field is an 'Add additional tags' link. Below the field, a section titled 'Application and OS Images (Amazon Machine Image)' is expanded, showing a search bar with placeholder text 'Search our full catalog including 1000s of application and OS images'. At the bottom of the screen, there are links for 'Feedback', 'Language selection', and '© 2022, Amazon Internet Services'.

**48** Type "Dragos"

49 Click here.

The screenshot shows the AWS Marketplace Quick Start interface. At the top is a search bar with placeholder text "Search our full catalog including 1000s of application and OS images". Below the search bar are two tabs: "Recents" and "Quick Start", with "Quick Start" being the active tab. A horizontal line of recent AMI icons includes Amazon Linux (with the AWS logo), Ubuntu, Windows, Red Hat, SUSE Linux, and another partially visible icon. To the right of this row is a search icon and a link "Browse more AMIs" with the note "Including AMIs from AWS, Marketplace and the Community". Below the recent AMI row, a specific item is highlighted: "Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type". The item details are: ami-0cff7528ff583bf9a (64-bit (x86)) / ami-00bf5f1c358708486 (64-bit (Arm)). It specifies Virtualization: hvm, ENA enabled: true, and Root device type: ebs. To the right of the item details is a "Free tier eligible" badge with a dropdown arrow. At the bottom of the main content area is a "Description" section, followed by a footer bar with "Feedback", "Unified Settings" (with a gear icon), and copyright information "© 2022, Amazon Internet Services".

50 Click here.

The screenshot shows the AWS Launch Wizard interface for creating a new Amazon Linux 2 instance. At the top is a search bar with placeholder text "Search for services, features, blogs, docs, and more" and a keyboard shortcut "[Alt+S]". To the right of the search bar are three small icons: a user profile, a bell, and a question mark. Below the search bar, the instance type "t2.micro" is selected, indicated by a blue border and the text "Free tier eligible" with a dropdown arrow. To the right of the instance type is a "Compare instance types" button. Below the instance type, instance details are listed: 1 vCPU, 1 GiB Memory, Linux pricing: 0.0116 USD per Hour, and Windows pricing: 0.0162 USD per Hour. In the main content area, there is a section titled "Select key pair (login)" with a "Create new key pair" button. Below this section, a note says "Select a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance." At the bottom of the screen, there is a progress bar indicating the wizard's progress.

**51** Click here.

The screenshot shows the AWS Lambda console's instance selection interface. A search bar at the top contains the placeholder text "Search". Below it, a list of instance types is shown:

- t1.micro**: Family: t1, 1 vCPU, 0.612 GiB Memory. On-Demand Linux pricing: 0.0116 USD per Hour. On-Demand Windows pricing: 0.0162 USD per Hour. Status: Free tier eligible.
- t2.nano**: Family: t2, 1 vCPU, 0.5 GiB Memory. On-Demand Linux pricing: 0.02 USD per Hour. On-Demand Windows pricing: 0.02 USD per Hour.
- t2.micro**: 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. Status: Free tier eligible.
- t2.small**: Family: t2, 1 vCPU, 2 GiB Memory. On-Demand Linux pricing: 0.023 USD per Hour. On-Demand Windows pricing: 0.032 USD per Hour.
- t2.medium**

A yellow circle highlights the "Create new key pair" button, which is located in a separate panel on the right side of the screen. This panel also contains a note about selecting a key pair before launching and an "Edit" button.

**52** Click "Create new key pair"

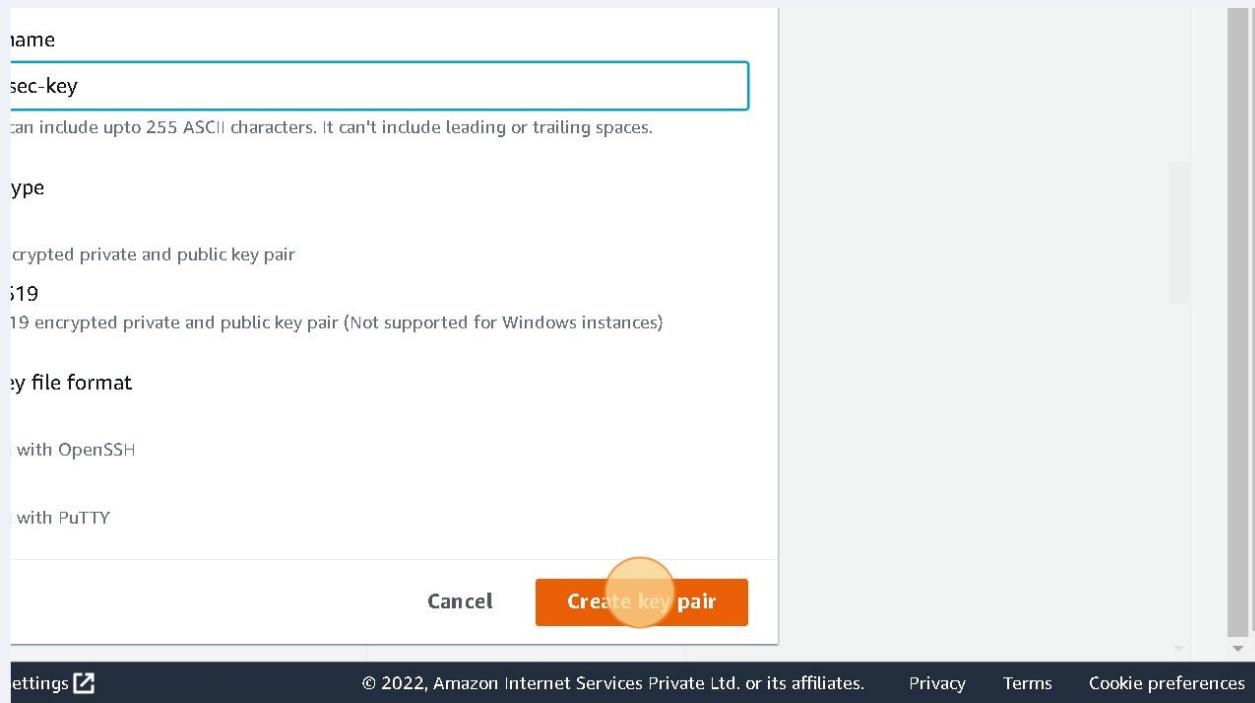
The screenshot shows the AWS Lambda console's instance selection interface again, but this time the "Create new key pair" button is highlighted with a yellow circle. The button is labeled "Create new key pair" and has a circular icon to its left.

**53** Click the "Key pair name" field.

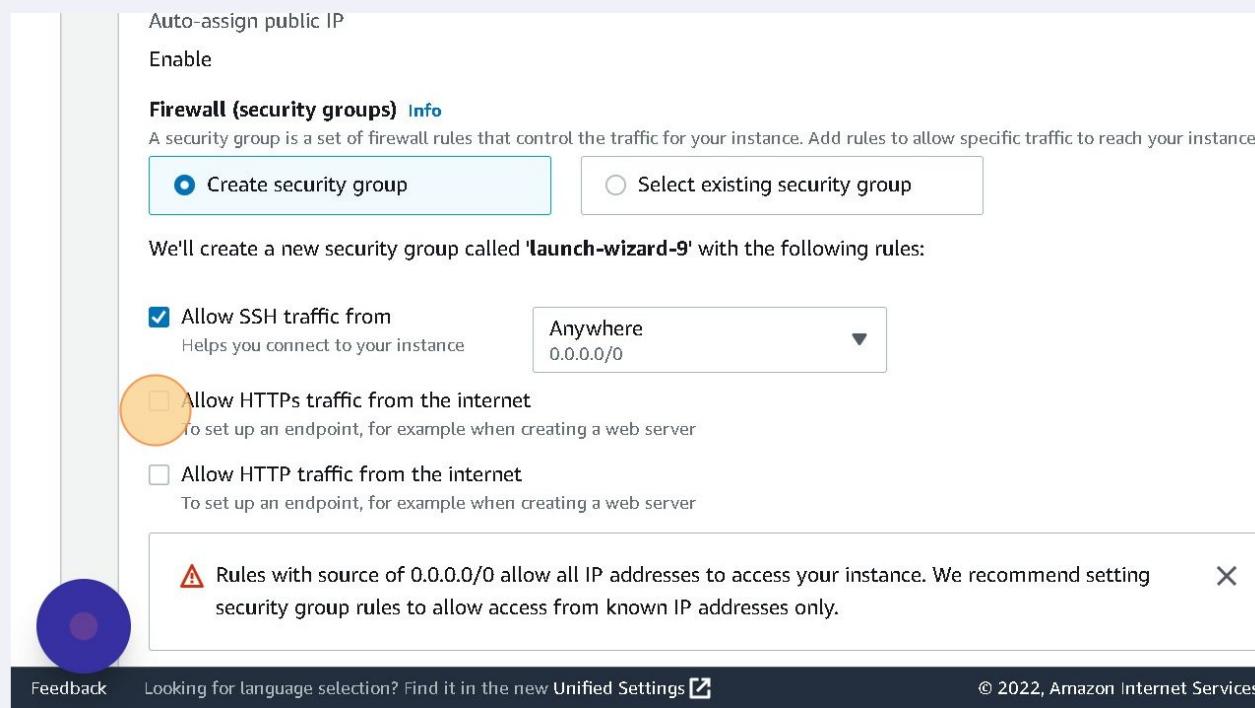
The screenshot shows the 'Create key pair' wizard. On the left, there's a sidebar with 'Key pair (login) Info' and 'Network settings'. In the main area, the title is 'Create key pair'. It says 'Key pairs allow you to connect to your instance securely.' Below that, it asks for the 'Key pair name - required' and has a 'Select' button. A red circle highlights the 'Enter key pair name' input field. Below it, a note says 'The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.' Under 'Key pair type', 'RSA' is selected (radio button is checked). A note says 'RSA encrypted private and public key pair'. There's also an option for 'ED25519' which is described as 'ED25519 encrypted private and public key pair (Not supported for Windows instances)'. Under 'Private key file format', '.pem' is selected (radio button is checked), with a note 'For use with OpenSSH'.

**54** Type "Dragos-sec-key"

## 55 Click "Create key pair"



## 56 Click the "Allow HTTPs traffic from the internetTo set up an endpoint, for example when creating a web server" field.



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57

Click the "Allow HTTP traffic from the internetTo set up an endpoint, for example when creating a web server" field.

Auto-assign public IP  
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

We'll create a new security group called '**launch-wizard-9**' with the following rules:

Allow SSH traffic from Anywhere  
Helps you connect to your instance

Allow HTTPS traffic from the internet  
To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet  
To set up an endpoint, for example when creating a web server

**⚠️** Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. [X](#)

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58

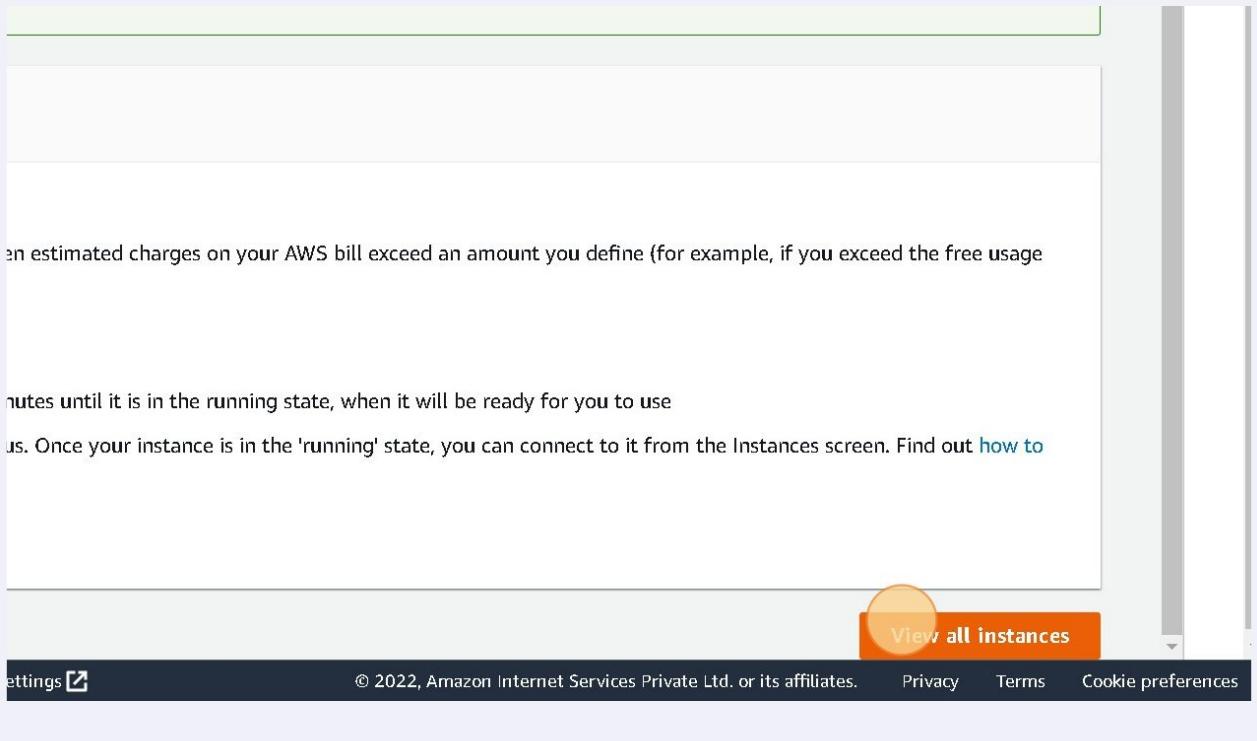
Click "Launch instance"

Includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, > the internet.

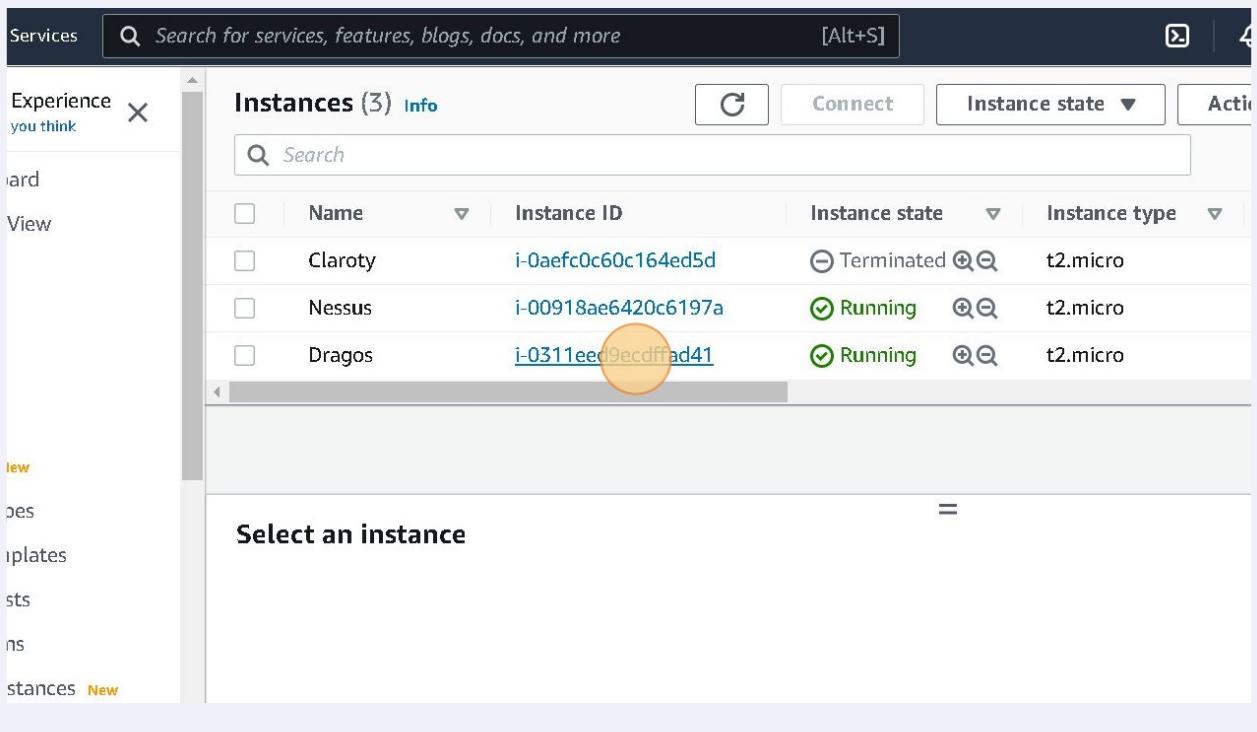
[Launch instance](#)

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**59** Click "View all instances"



**60** Click "i-0311eed9ecdffad41"



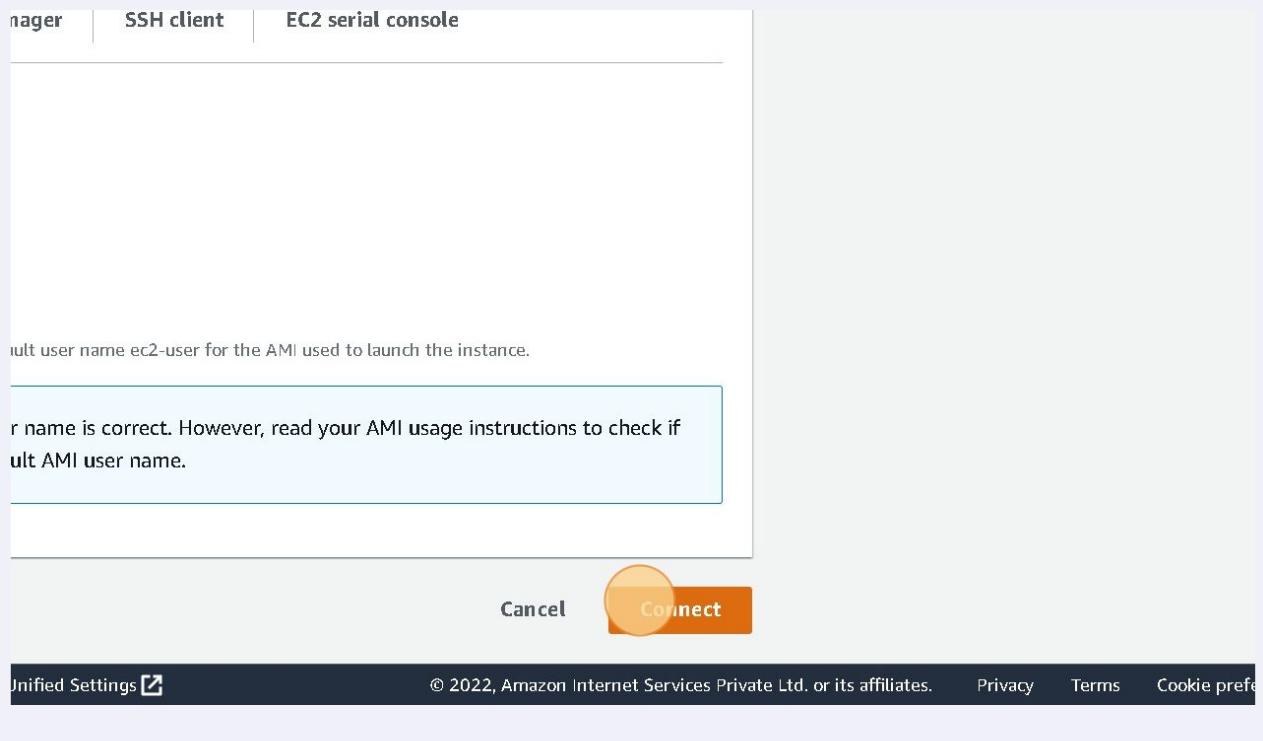
## 61 Click "Connect"

The screenshot shows the AWS EC2 Instances page for an instance named 'i-0311eed9ecdfad41 (Dragos)'. The 'Connect' button in the top navigation bar is highlighted with a yellow circle. The main content area displays various details about the instance, including its ID, public and private IP addresses, instance state (Running), and type (t2.micro).

## 62 Click "EC2 Instance Connect"

The screenshot shows the 'Connect to instance' page for the same EC2 instance. The 'EC2 Instance Connect' tab is highlighted with a yellow circle. Below it, instructions for connecting via SSH are provided, including steps to open an SSH client, locate the private key file, run a command to ensure the key is not publicly viewable, and connect using the Public DNS.

**63** Click "Connect"



Congrats! you just created an Instance successfully.

**64** To install httpd package.Type following command in terminal.

! sudo yum install httpd -y

**65** To enable httpd service:

! systemctl start httpd

**66**

To verify open a new chrome tab with your public ip address indicatd at the bottom of ec2 instance.

**67**

Navigate to cd /var/www/html/index.html and open index.html, add your desired content. Check by refreshing webpage provided by public IP.