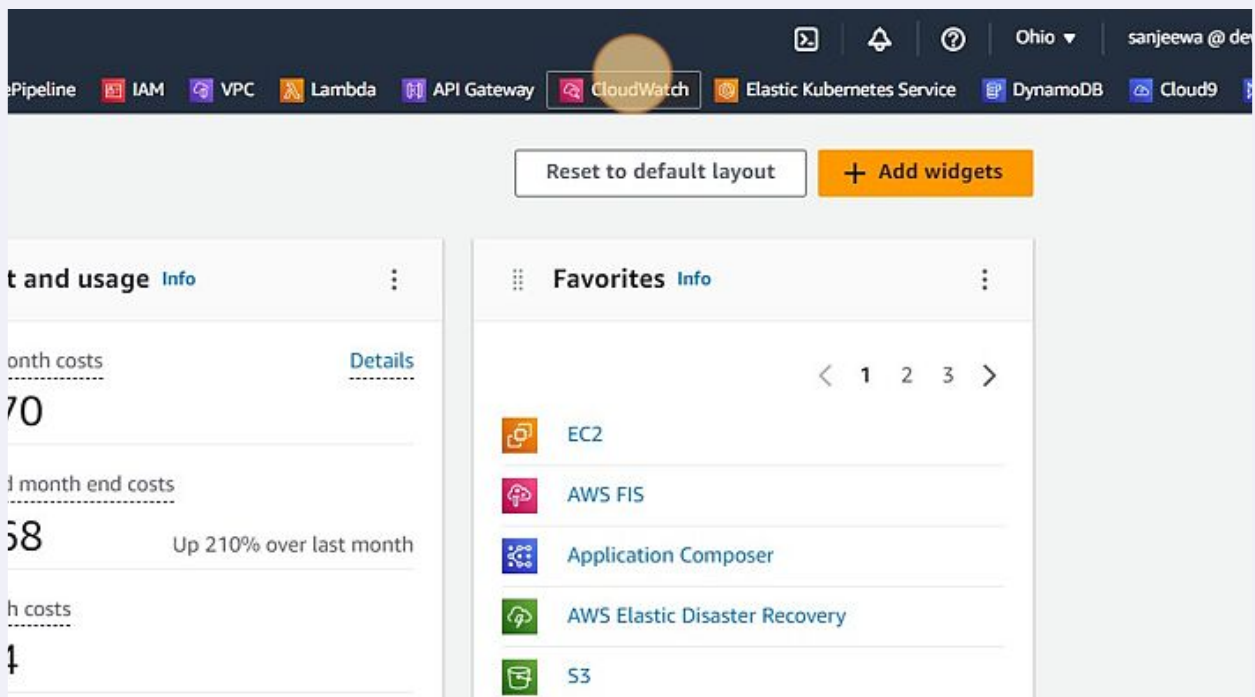


# AWS VPC Flow Logs Creation

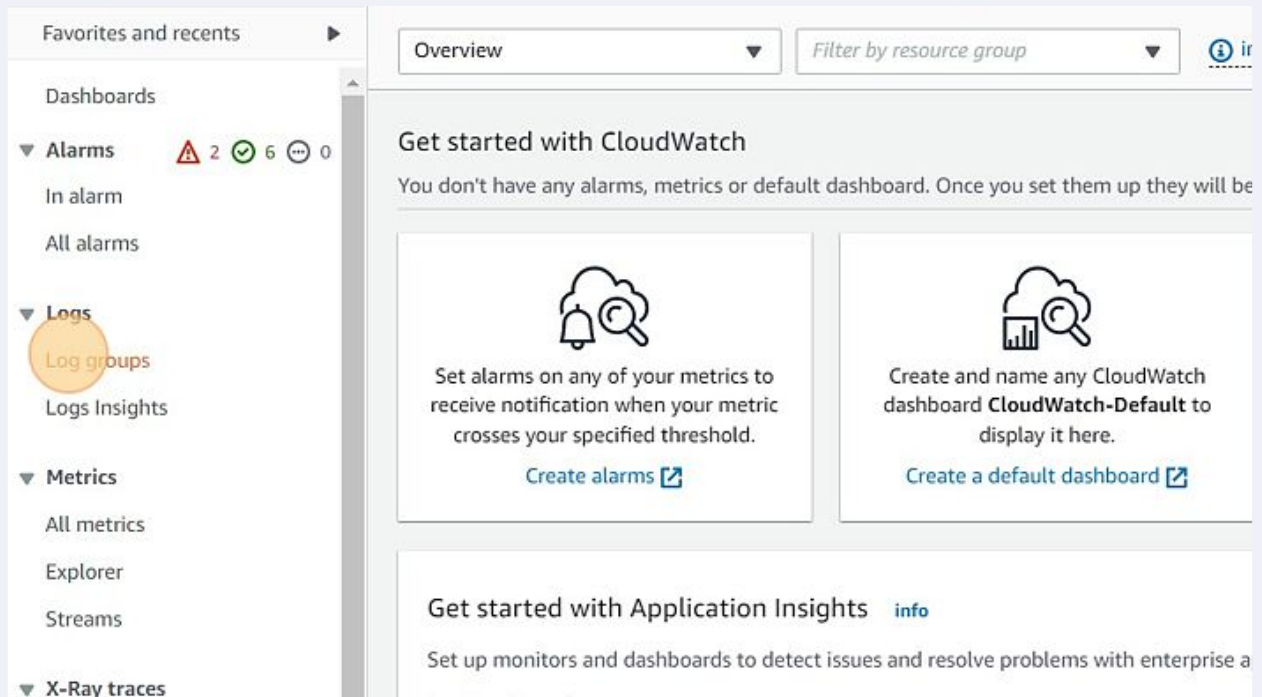
Step By Step Guide - Created By Lasantha

1 Navigate to [us-east-2.console.aws.amazon.com/console/home?r...](https://us-east-2.console.aws.amazon.com/console/home?r...)

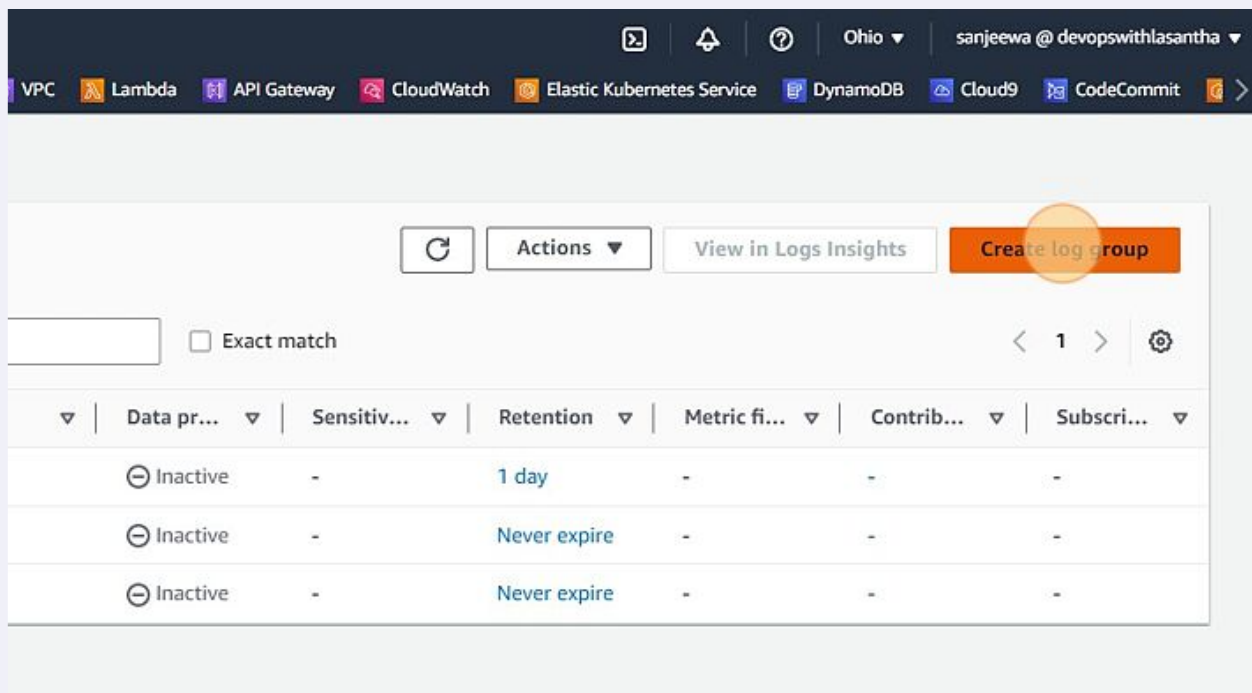
2 Click "CloudWatch"



### 3 Click "Log groups"



### 4 Click "Create log group"



- 5 Click the "Log group name" field.

CloudWatch > Log groups > Create log group

## Create log group

**Log group details**

Log group name

Retention setting  
Never expire ▼

KMS key ARN - optional

**Tags**

- 6 Type "vpcflowlogs"

## 7 Click "Create"

Prices resource. Each tag consists of a key and an optional value. You can use tags to track AWS resource usage and allocate AWS costs.

Cancel Create

© 2023, Amazon Web Services, Inc. or its affiliates.

## 8 Click "VPC"

[Alt+S]

Master Recovery S3 CloudFront CodePipeline IAM VPC Lambda API Gateway CloudWatch Elastic Kinesis

Log groups has been created.

Log groups

Load up to 10000 log groups.

Search or try prefix search ☐ Exact match

| Name                | Data protection | Sensitivity | Retention    |
|---------------------|-----------------|-------------|--------------|
| lambda/ResumeAPI    | Inactive        | -           | 1 day        |
| lambda/VisitorCount | Inactive        | -           | Never expire |
| Blog-Web-Logs       | Inactive        | -           | Never expire |

## 9 Click "Create VPC"

The screenshot shows the AWS Management Console VPC dashboard. At the top, there's a navigation bar with the AWS logo, a search bar, and links to various services like EC2, AWS FIS, Application Composer, AWS Elastic Disaster Recovery, S3, CloudFront, CodePipeline, and IAM. Below the navigation bar, the VPC dashboard is displayed. On the left, there's a sidebar with the 'VPC dashboard' title and a list of VPC resources: EC2 Global View, Filter by VPC, Virtual private cloud, Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, and DHCP option sets. The main content area has a 'Create VPC' button highlighted with an orange circle, and a 'Launch EC2 Instances' button. Below these buttons, there's a note: 'Note: Your Instances will launch in the US East region.' The main section is titled 'Resources by Region' with a 'Refresh Resources' link. It shows a list of resources by region (US East): VPCs (1), Subnets (3), Route Tables (1), NAT Gateways, VPC Peering Connections, and Network ACLs. Each resource has a 'See all regions' link.

## 10 Click "VPC only"

VPC > Your VPCs > Create VPC

### Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource

#### VPC settings

##### Resources to create [Info](#)

Create only the VPC resource or the VPC and other networking resources.

☐ VPC only

☒ VPC and more

##### Name tag auto-generation [Info](#)

Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

☒ Auto-generate

project

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

Determine the starting IP and the size of your VPC using CIDR notation.

#### Preview

##### VPC [Show details](#)

Your AWS virtual network

project-vpc

11 Click the "Name tag - optional" field.

The screenshot shows the AWS VPC console interface. At the top, there's a navigation bar with the AWS logo, 'Services' menu, a search bar, and a list of services including EC2, AWS FIS, Application Composer, AWS Elastic Disaster Recovery, S3, CloudFront, CodePipeline, and IAM. Below the navigation bar, a message states: 'Create only the VPC resource or the VPC and other networking resources.' There are two radio button options: 'VPC only' (selected) and 'VPC and more'. Under the 'Name tag - optional' section, it says 'Creates a tag with a key of 'Name' and a value that you specify.' The text input field for the tag value contains 'my-vpc-01' and is highlighted with an orange circle. Below this, there are sections for 'IPv4 CIDR block' and 'IPv6 CIDR block'. The 'IPv4 CIDR block' section has two radio button options: 'IPv4 CIDR manual input' (selected) and 'IPAM-allocated IPv4 CIDR block'. The text input field for the IPv4 CIDR contains '10.0.0.0/24'. The 'IPv6 CIDR block' section has two radio button options: 'No IPv6 CIDR block' (selected) and 'IPAM-allocated IPv6 CIDR block'.

12 Type "flowlogsvpc"

13 Click the "IPv4 CIDR" field.

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

flowlogsvpc

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

14 Type "10.1.0.0/16"

## 15 Click "Create VPC"

Each tag consists of a key and an optional value. You can use tags to search and filter

Value - optional

Q flowlogsvpc X Remove

Cancel Create VPC

## 16 Click "Internet gateways"

Select a VPC

Virtual private cloud

- Your VPCs New
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways

You successfully created vpc-024453f85a50ecd37 / flowlogsvpc

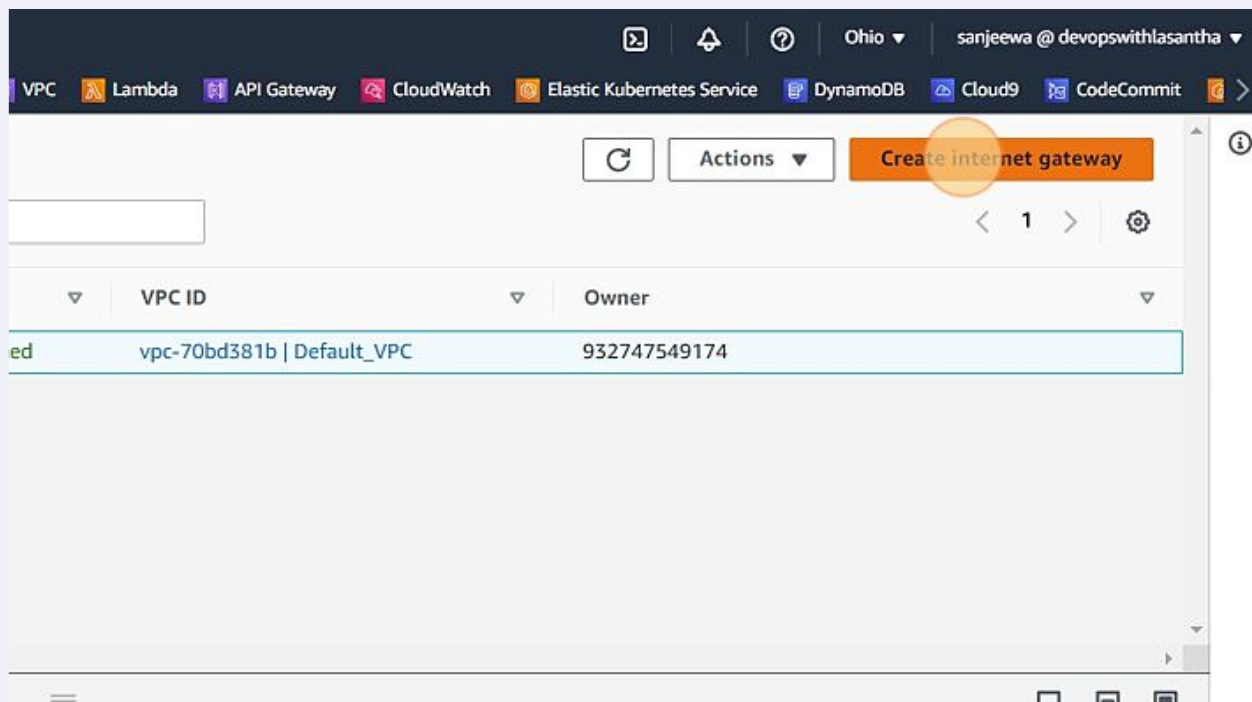
VPC > Your VPCs > vpc-024453f85a50ecd37

### vpc-024453f85a50ecd37 / flowlogsvpc

| Details Info                  |                                    |
|-------------------------------|------------------------------------|
| VPC ID                        | State                              |
| vpc-024453f85a50ecd37         | Available                          |
| Tenancy                       | DHCP option set                    |
| Default                       | dopt-00eb756b                      |
| Default VPC                   | IPv4 CIDR                          |
| No                            | 10.1.0.0/16                        |
| Network Address Usage metrics | Route 53 Resolver DNS Firewall rul |



## 17 Click "Create internet gateway"



## 18 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.

#### 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](#)

19 Type "flowlogsIGW"

20 Click "Create internet gateway"

value that you specify.

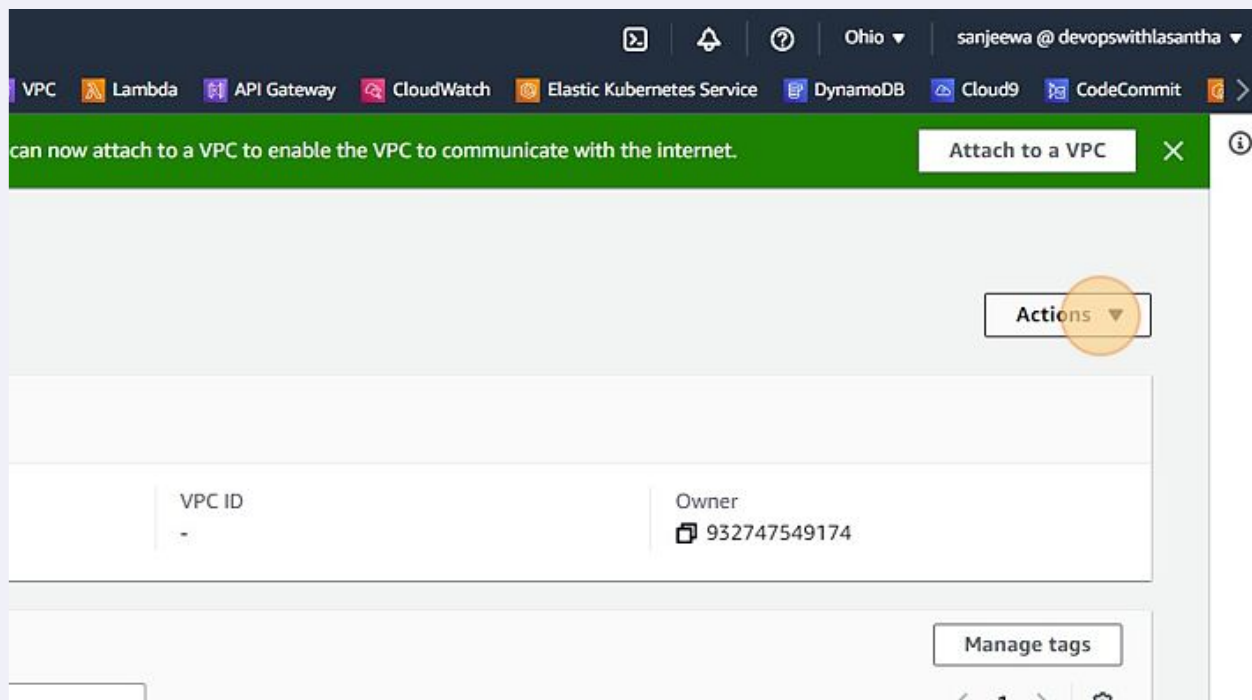
resource. Each tag consists of a key and an optional value. You can use tags to search and filter

Value - optional

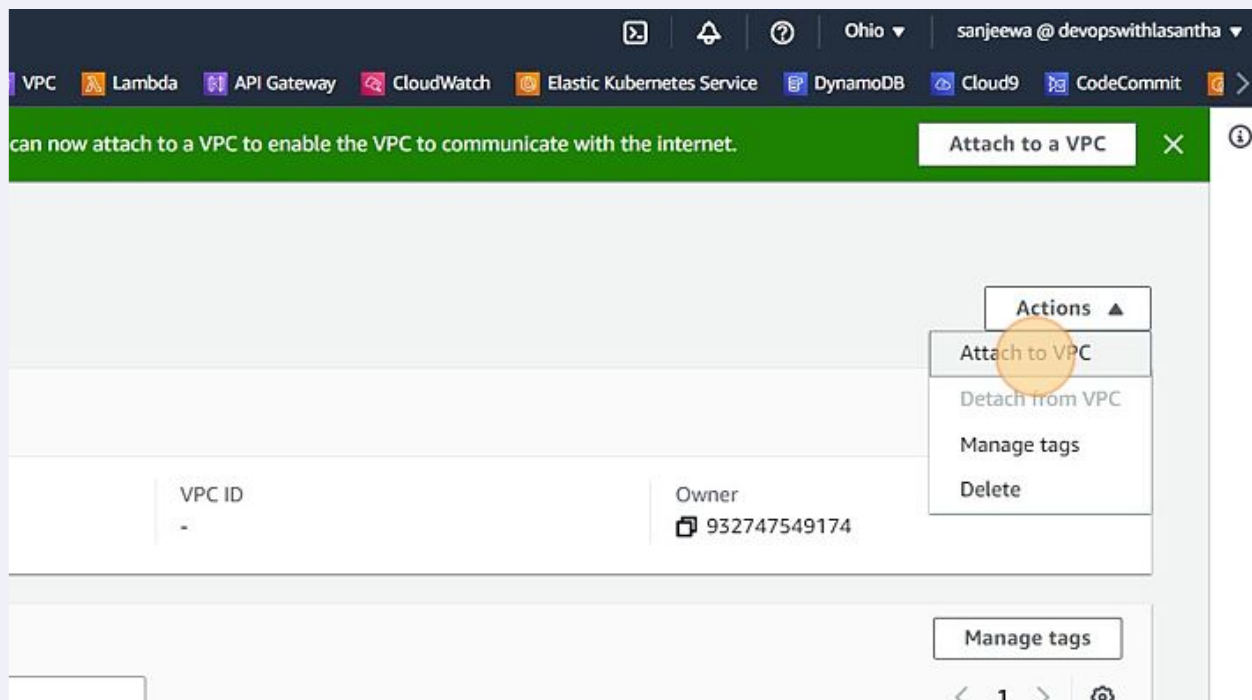
×  × Remove

Cancel Create internet gateway

## 21 Click "Actions"



## 22 Click "Attach to VPC"



- 23 Click the "Available VPCs" field.

## Attach to VPC (igw-00ebb5e59706e03fb) [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.

► AWS Command Line Interface command

Cancel

Attach internet gateway

- 24 Click "vpc-024453f85a50ecd37 - flowlogsvpc"

## Attach to VPC (igw-00ebb5e59706e03fb) [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-024453f85a50ecd37 - flowlogsvpc

► AWS Command Line Interface command

Cancel

Attach internet gateway

## 25 Click "Attach internet gateway"

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

VPC:

face command

Cancel **Attach internet gateway**

## 26 Click "Route tables"

VPC dashboard X

EC2 Global View New

Filter by VPC:

Select a VPC ▼

▼ Virtual private cloud

Your VPCs New

Subnets

**Route tables**

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

Internet gateway igw-00ebb5e59706e03fb successfully attached to vpc-024453185a50ec

VPC > Internet gateways > igw-00ebb5e59706e03fb

### igw-00ebb5e59706e03fb / flowlogsIGW

**Details** Info

Internet gateway ID  
igw-00ebb5e59706e03fb

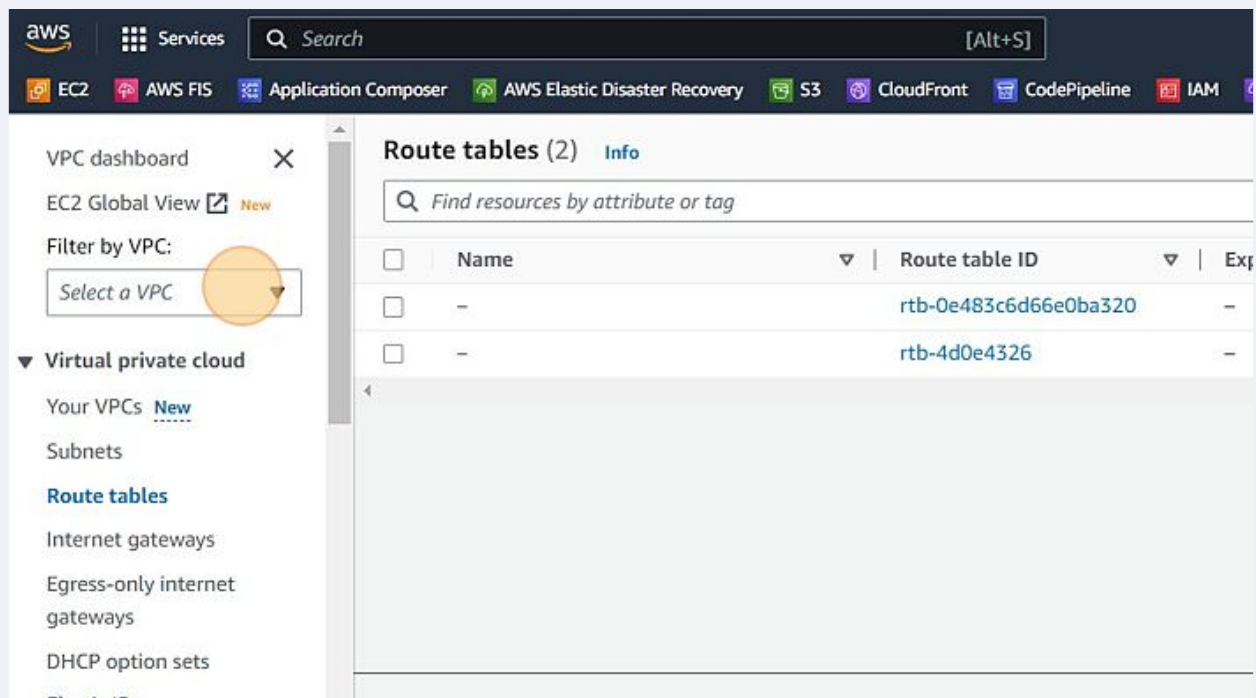
State  
 Attached

**Tags**

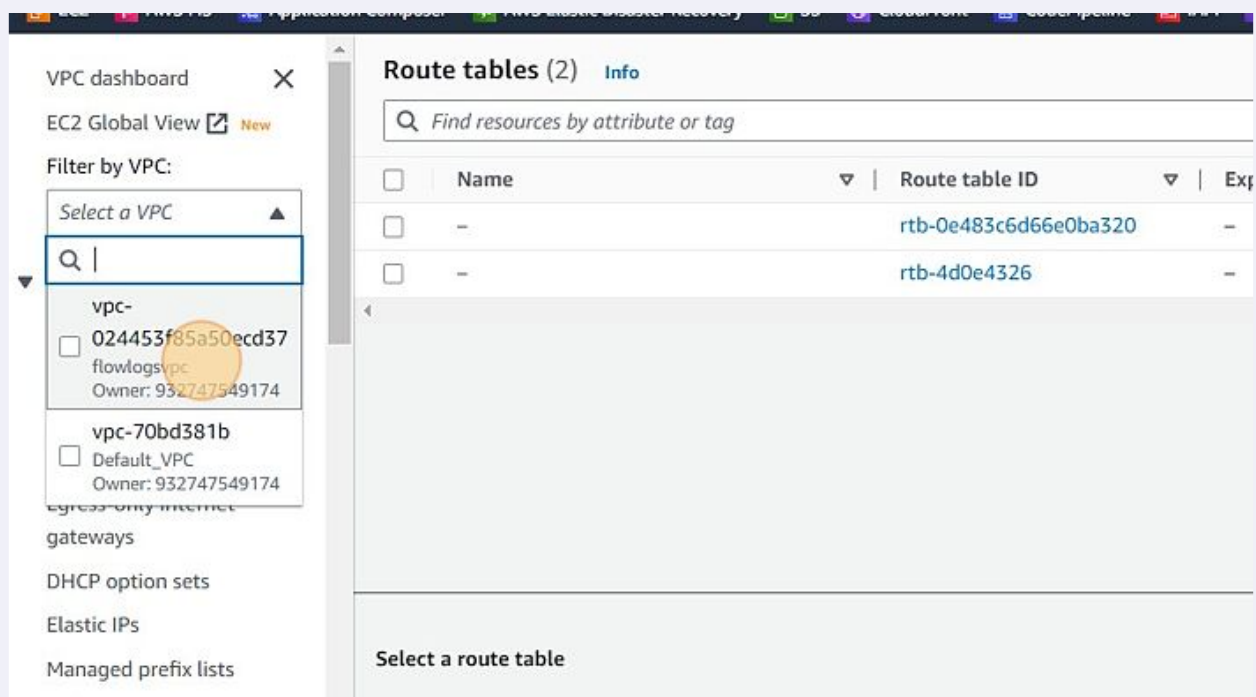
Search tags

| Key  | Value       |
|------|-------------|
| Name | flowlogsIGW |

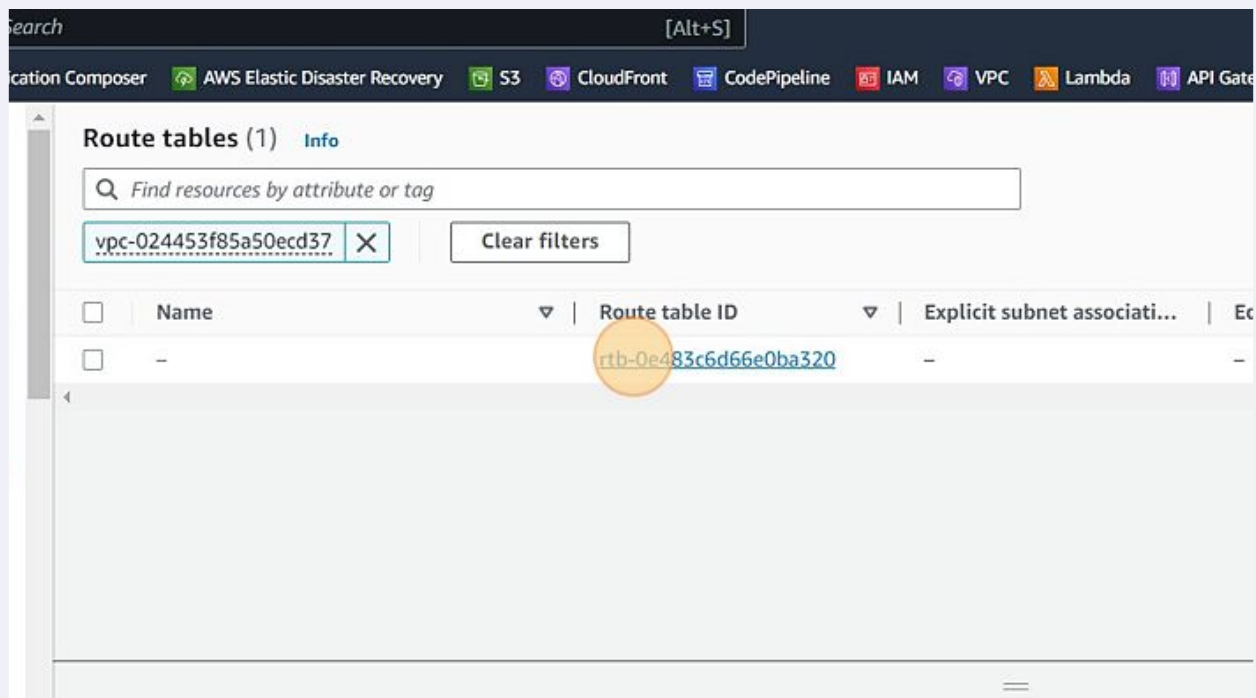
## 27 Click "Select a VPC"



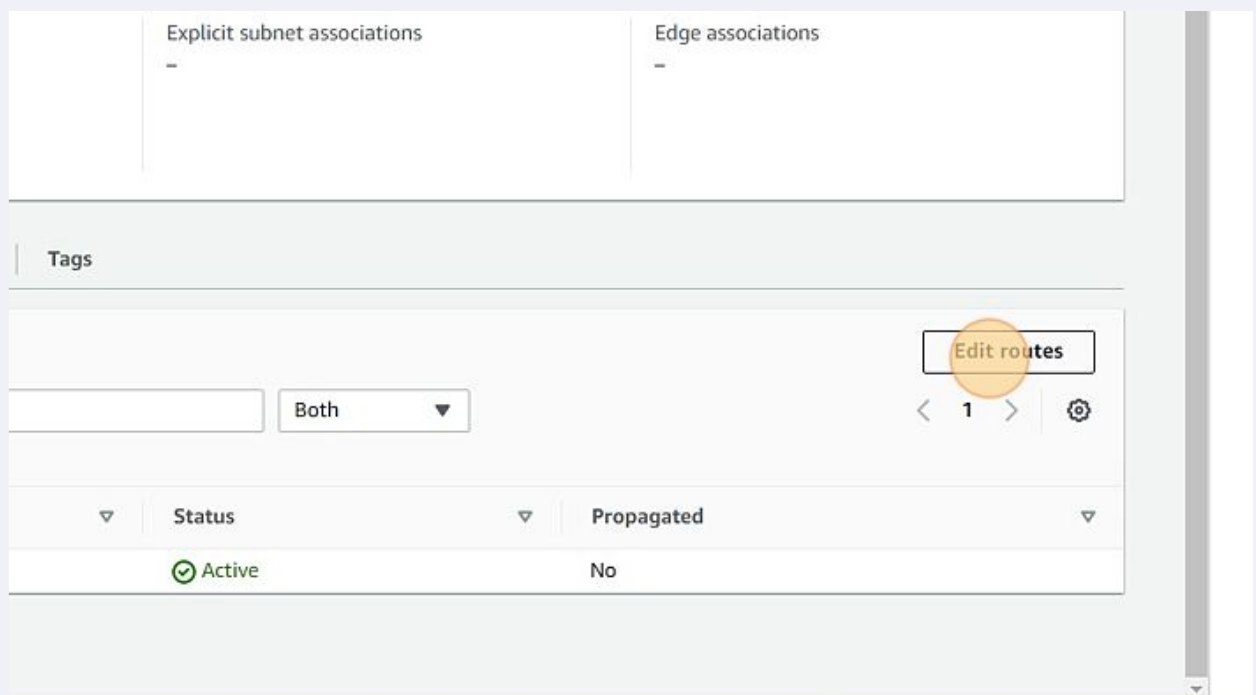
## 28 Click "flowlogsvpc"



29 Click "rtb-0e483c6d66e0ba320"



30 Click "Edit routes"



31 Click "Add route"

## Edit routes

| Destination                              | Target                             |
|--|------------------------------------|
| 10.1.0.0/16                              | <input type="text" value="local"/> |
| <input type="button" value="Add route"/> |                                    |

32 Click this search field.

VPC > Route tables > rtb-0e483c6d66e0ba320 > Edit routes

## Edit routes

| Destination                              | Target                             |
|--|------------------------------------|
| 10.1.0.0/16                              | <input type="text" value="local"/> |
| <input type="text" value=""/>            | <input type="text" value=""/>      |
| <input type="button" value="Add route"/> |                                    |



33 Click here.

## Edit routes

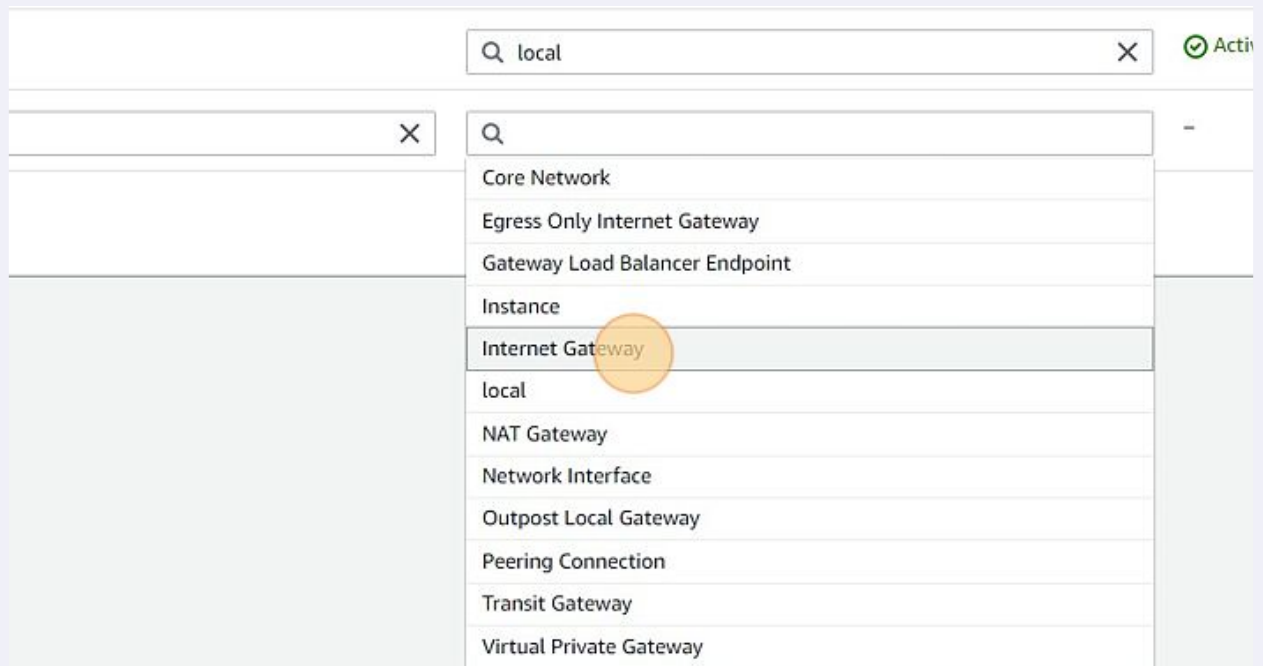
| Destination                    | Target                               |
|--------------------------------|--------------------------------------|
| 10.1.0.0/16                    | <input type="text" value="Q local"/> |
| <input type="text" value="Q"/> | <input type="text" value="Q"/>       |
| 0.0.0.0/0                      |                                      |
| 0.0.0.0/8                      |                                      |
| 0.0.0.0/16                     |                                      |
| 0.0.0.0/24                     |                                      |
| 0.0.0.0/32                     |                                      |
| ::/0                           |                                      |
| ::/16                          |                                      |
| ::/32                          |                                      |
| ::/48                          |                                      |

34 Click this search field.

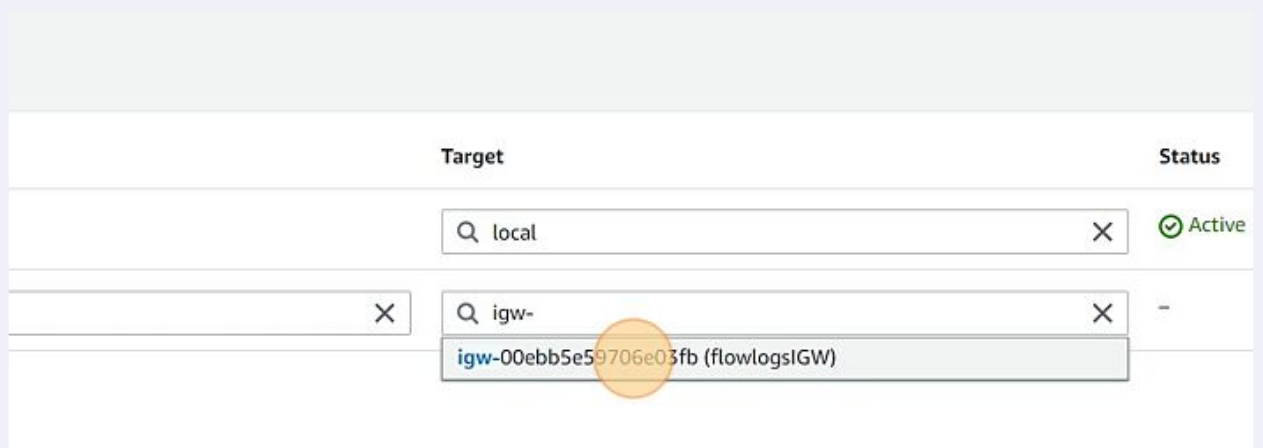
e483c6d66e0ba320 > Edit routes

| Target                               | Status   |
|--------------------------------------|----------|
| <input type="text" value="Q local"/> | ✓ Active |
| <input type="text" value="Q"/>       | -        |

35 Click "Internet Gateway"



36 Click "igw-00ebb5e59706e03fb (flowlogsIGW)"



### 37 Click "Save changes"

|                      | Status   | Propagated |                         |
|----------------------|----------|------------|-------------------------|
| <input type="text"/> | ✓ Active | No         |                         |
| <input type="text"/> | -        | No         | <button>Remove</button> |

Cancel Preview **Save changes**

### 38 Click "Subnets"

VPC dashboard ✕

EC2 Global View New

Filter by VPC:

Select a VPC ▼

▼ Virtual private cloud

- Your VPCs New
- Subnets**
- Route tables
- Internet gateways
- Egress-only internet gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists

✓ Updated routes for rtb-0e483c6d66e0ba320 successfully

► Details

VPC > Route tables > rtb-0e483c6d66e0ba320

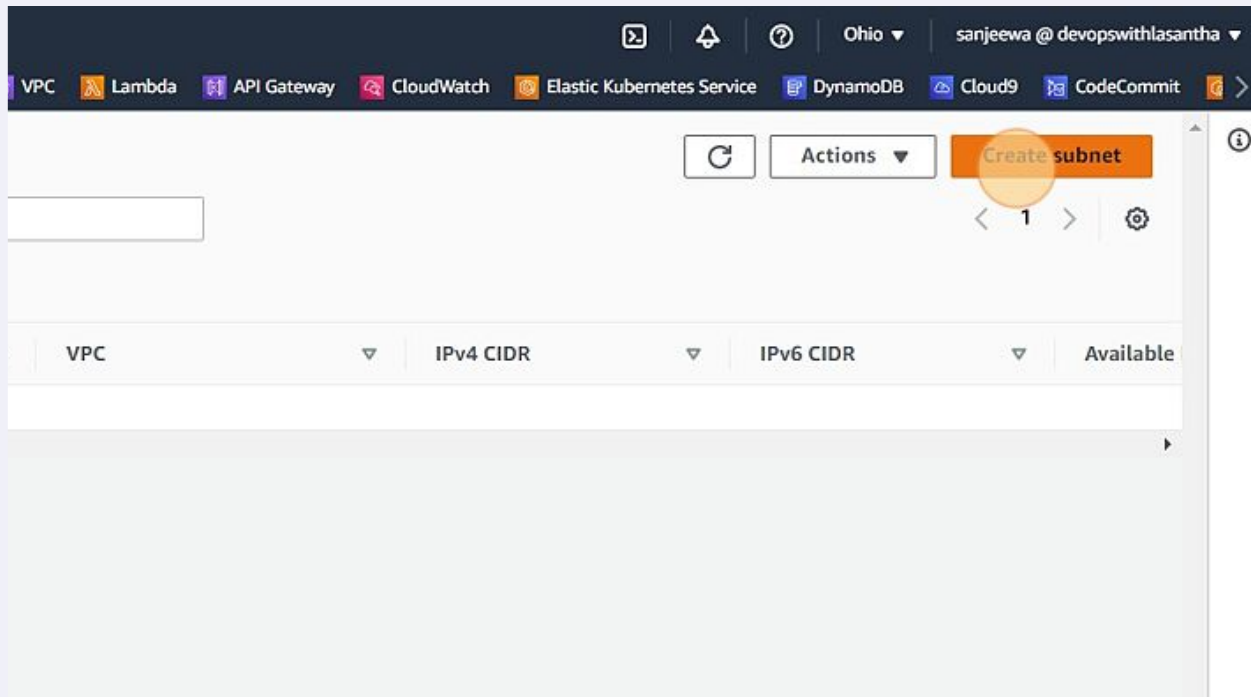
## rtb-0e483c6d66e0ba320

📘 You can now check network connectivity with Reachability Analyzer

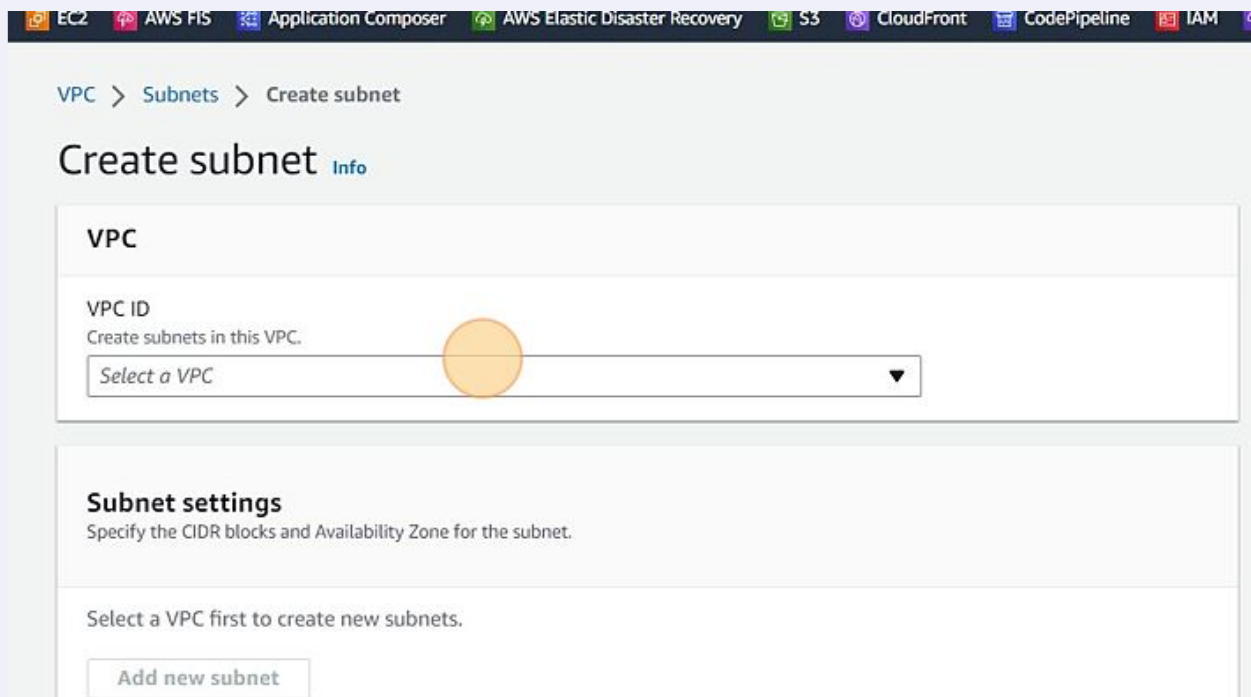
**Details** Info

|                |                                     |          |              |
|----------------|-------------------------------------|----------|--------------|
| Route table ID | rtb-0e483c6d66e0ba320               | Main     | Yes          |
| VPC            | vpc-024453f85a50ecd37   flowlogsvpc | Owner ID | 932747549174 |

39 Click "Create subnet"



40 Click "Select a VPC"



41 Click "10.1.0.0/16"

## Create subnet [Info](#)

### VPC

#### VPC ID

Create subnets in this VPC.

Select a VPC

Q |

vpc-024453f85a50ecd37 (flowlogsvpc)  
10.1.0.0/16

vpc-70bd381b (Default\_VPC) (default)  
172.31.0.0/16

Select a VPC first to create new subnets.

Add new subnet

Cancel

Create subnet

42 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](#)

Q 10.0.0.0/24

Tags - optional

43 Type "flowlogssubnet1"

44 Click "No preference"

**Subnet 1 of 1**

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

flowlogssubnet1

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 | flowlogssubnet1  | Remove |

Add new tag

#### 45 Click "US East (Ohio) / us-east-2a"

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

flowlogsubnet1

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

Q

No preference ✓

US East (Ohio) / us-east-2a us-east-2  
ID: use2-az1

US East (Ohio) / us-east-2b us-east-2  
ID: use2-az2

US East (Ohio) / us-east-2c us-east-2  
ID: use2-az3

Add new tag

You can add 49 more tags.

Remove

Remove

#### 46 Click the "10.0.0.0/24" field.

Subnet name

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

flowlogsubnet1

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 (Ohio) / us-east-2a

IPv4 CIDR block [Info](#)

Q 10.0.0.0/24

▼ Tags - optional

Key Value - optional

Q Name X Q flowlogsubnet1 X Remove

Add new tag

You can add 49 more tags.

Remove

**47** Click the "10.0.0.0/24" field.

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

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

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

▼ **Tags - optional**

| Key                               | Value - optional                             |                                       |
|-----------------------------------|--|---------------------------------------|
| <input type="text" value="Name"/> | <input type="text" value="flowlogssubnet1"/> | <input type="button" value="Remove"/> |

You can add 49 more tags.

**48** Type "1.1.0/24"



49 Click "10.1.1.0/24"

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

flowlogsubnet1

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 (Ohio) / us-east-2a

IPv4 CIDR block [Info](#)

10.1.1.0/24

10.1.1.0/24

Key Value - optional

Name flowlogsubnet1 Remove

Add new tag

You can add 49 more tags.

Remove

50 Click "Create subnet"

Value - optional

flowlogsubnet1 Remove

Cancel Create subnet

© 20

## 51 Click "Your VPCs"

EC2 AWS FIS Application Composer AWS Elastic Disaster Recovery S3 CloudFront CodePipeline IAM

VPC dashboard X  
EC2 Global View [New](#)  
Filter by VPC:

Virtual private cloud  
**Your VPCs** [New](#)  
Subnets  
Route tables  
Internet gateways  
Egress-only internet gateways  
DHCP option sets  
Elastic IPs  
Managed prefix lists

✓ You have successfully created 1 subnet: subnet-061b9fd27c3355dca

Subnets (1) [Info](#)

Subnet ID: subnet-061b9fd27c3355dca X VPC: vpc-024453f85a50ecd37 X

| <input type="checkbox"/> | Name            | Subnet ID                | State       |
|--------------------------|-----------------|--------------------------|-------------|
| <input type="checkbox"/> | flowlogssubnet1 | subnet-061b9fd27c3355dca | ✓ Available |

## 52 Click this checkbox.

EC2 AWS FIS Application Composer AWS Elastic Disaster Recovery S3 CloudFront CodePipeline IAM

VPC dashboard X  
EC2 Global View [New](#)  
Filter by VPC:

Virtual private cloud  
**Your VPCs** [New](#)  
Subnets  
Route tables  
Internet gateways  
Egress-only internet gateways  
DHCP option sets  
Elastic IPs  
Managed prefix lists

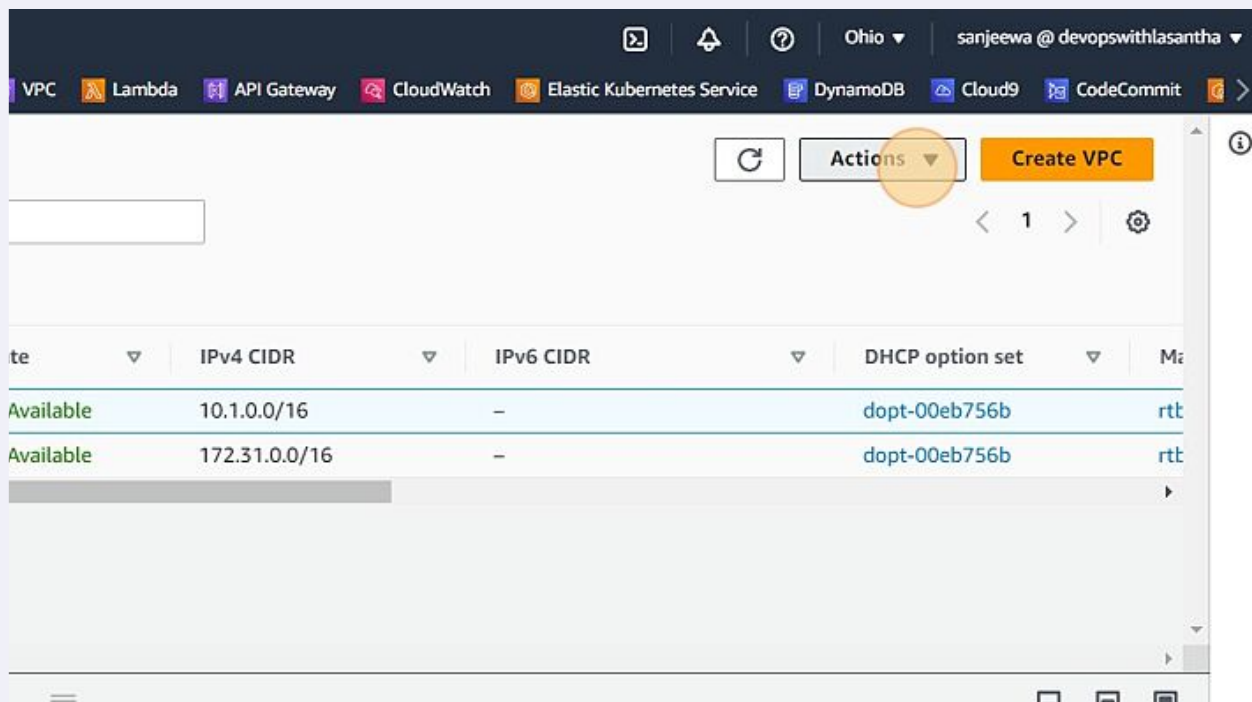
Your VPCs (2) [Info](#)

VPC ID: vpc-024453f85a50ecd37 X

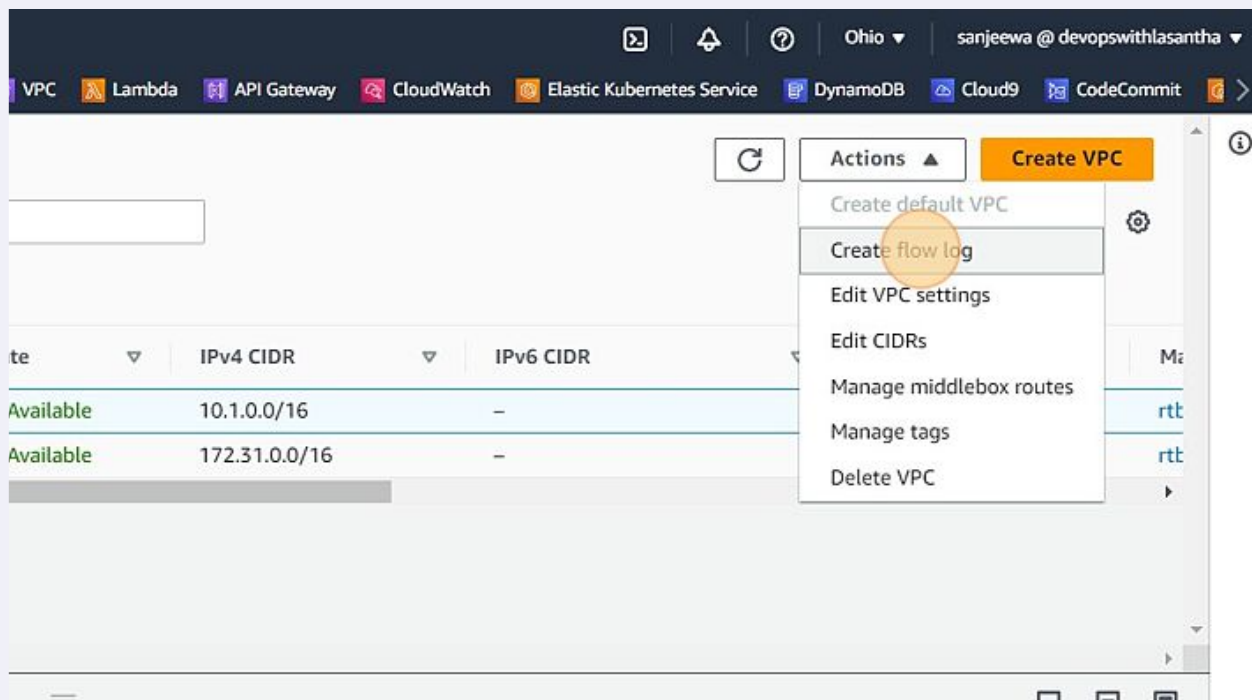
| <input type="checkbox"/>            | Name        | VPC ID                | St |
|-------------------------------------|-------------|-----------------------|----|
| <input checked="" type="checkbox"/> | flowlogsvpc | vpc-024453f85a50ecd37 | ✓  |
| <input type="checkbox"/>            | Default_VPC | vpc-70bd381b          | ✓  |

Select a VPC above

53 Click here.



54 Click "Create flow log"



55 Click the "Name - optional" field.

| Name        | Resource ID           | State     |
|-------------|-----------------------|-----------|
| flowlogsvpc | vpc-024453f85a50ecd37 | Available |

### Flow log settings

Name - optional

Filter

The type of traffic to capture (accepted traffic only, rejected traffic only, or all traffic).

☐ Accept

☐ Reject

☒ All

Maximum aggregation interval [Info](#)

The maximum interval of time during which a flow of packets is captured and aggregated into a flow log record.

☒ 10 minutes

☐ 1 minute

56 Type "flowlog1"

## 57 Click "Accept"

**Flow log settings**

Name - *optional*

flowlog1

**Filter**  
The type of traffic to capture (accepted traffic only, rejected traffic only, or all traffic).

☐ Accept

☐ Reject

☒ All

**Maximum aggregation interval** [Info](#)  
The maximum interval of time during which a flow of packets is captured and aggregated into a flow log record.

☒ 10 minutes

☐ 1 minute

**Destination**  
The destination to which to publish the flow log data.

☒ Send to CloudWatch Logs

## 58 Click "1 minute"

**Filter**  
The type of traffic to capture (accepted traffic only, rejected traffic only, or all traffic).

☒ Accept

☐ Reject

☐ All

**Maximum aggregation interval** [Info](#)  
The maximum interval of time during which a flow of packets is captured and aggregated into a flow log record.

☒ 10 minutes

☐ 1 minute

**Destination**  
The destination to which to publish the flow log data.

☒ Send to CloudWatch Logs

☐ Send to an Amazon S3 bucket

☐ Send to Kinesis Firehose in the same account

☐ Send to Kinesis Firehose in a different account

**Destination log group** [Info](#)  
The name of an existing log group or the name of a new log group that will be created when you create this flow log. A new log stream is created for each monitored network interface.

59 Click here.

**Destination**  
The destination to which to publish the flow log data.

☒ Send to CloudWatch Logs

☐ Send to an Amazon S3 bucket

☐ Send to Kinesis Firehose in the same account

☐ Send to Kinesis Firehose in a different account

**Destination log group** [Info](#)  
The name of an existing log group or the name of a new log group that will be created when you create this flow log. A new log stream is created for each monitored network interface.

**IAM role** [Info](#)  
The IAM role that has permission to publish to the Amazon CloudWatch log group. [Set up permissions](#)

**Log record format**  
Specify the fields to include in the flow log record.

☒ AWS default format

☐ Custom format

60 Click the "Destination log groupInfo" field.

**Destination**  
The destination to which to publish the flow log data.

☒ Send to CloudWatch Logs

☐ Send to an Amazon S3 bucket

☐ Send to Kinesis Firehose in the same account

☐ Send to Kinesis Firehose in a different account

**Destination log group** [Info](#)  
The name of an existing log group or the name of a new log group that will be created when you create this flow log. A new log stream is created for each monitored network interface.

**Log record format**  
Specify the fields to include in the flow log record.

☒ AWS default format

☐ Custom format

**Format preview**



## 61 Click here.

☐ Send to Kinesis Firehose in the same account  
☐ Send to Kinesis Firehose in a different account

**Destination log group** [Info](#)  
The name of an existing log group or the name of a new log group that will be created when you create this flow log. A new log stream is created for each monitored network interface.

[↻](#)

/aws/lambda/ResumeAPI

/aws/lambda/VisitorCount

Personal-Blog-Web-Logs

vpcflowlogs

[↻](#)

**Log record format**  
Specify the fields to include in the flow log record.

☒ AWS default format  
☐ Custom format

**Format preview**

[version] \${account-id} \${interface-id} \${srcaddr} \${dstaddr} \${srcport} \${dstport} \${protocol} \${packets} \${bytes} \${start} \${end} \${action} \${log-status}

[Copy](#)

CloudShell [Feedback](#) [Language](#)

## 62 Click here.

☐ Send to Kinesis Firehose in the same account  
☐ Send to Kinesis Firehose in a different account

**Destination log group** [Info](#)  
The name of an existing log group or the name of a new log group that will be created when you create this flow log. A new log stream is created for each monitored network interface.

[✕](#) [↻](#)

**IAM role** [Info](#)  
The IAM role that has permission to publish to the Amazon CloudWatch log group. [Set up permissions](#)

[↻](#)

**Log record format**  
Specify the fields to include in the flow log record.

☒ AWS default format  
☐ Custom format

**Format preview**

[version] \${account-id} \${interface-id} \${srcaddr} \${dstaddr} \${srcport} \${dstport} \${protocol} \${packets} \${bytes} \${start} \${end} \${action} \${log-status}

[Copy](#)

CloudShell [Feedback](#) [Language](#)

### 63 Click this button.

the same account  
a different account

or the name of a new log group that will be created when you create this flow log. A new log stream is created in the console interface.

publish to the Amazon CloudWatch log group. [Set up permissions](#)

ow log record.

```
interface-id} ${srcaddr} ${dstaddr} ${srcport} ${dstport}  
es} ${start} ${end} ${action} ${log-status}
```

### 64 Click here.

secretsmanager-role-v0  
service-role-v0

AccessRole

ServiceRole-us-east-2-Personal-Blog-Web-Pipeline

ole

forAmazonEKS

forAmazonEKSNodegroup

this flow log. A new log stream is

clude in the flow log record.

format

:

```
ount-id} ${interface-id} ${srcaddr} ${dstaddr} ${srcport} ${dstport}  
ckets} ${bytes} ${start} ${end} ${action} ${log-status}
```

Language



65 Click here.

☐ Send to an Amazon S3 bucket  
☐ Send to Kinesis Firehose in the same account  
☐ Send to Kinesis Firehose in a different account

**Destination log group** [Info](#)  
The name of an existing log group or the name of a new log group that will be created when you create this flow log. A new log stream is created for each monitored network interface.

**vpc-flow-logs-role**

**Log record format**  
Specify the fields to include in the flow log record.

☒ AWS default format  
☐ Custom format

**Format preview**

`{version} ${account-id} ${interface-id} ${srcaddr} ${dstaddr} ${srcport} ${dstport} ${protocol} ${packets} ${bytes} ${start} ${end} ${action} ${log-status}`

66 Click "Create flow log"

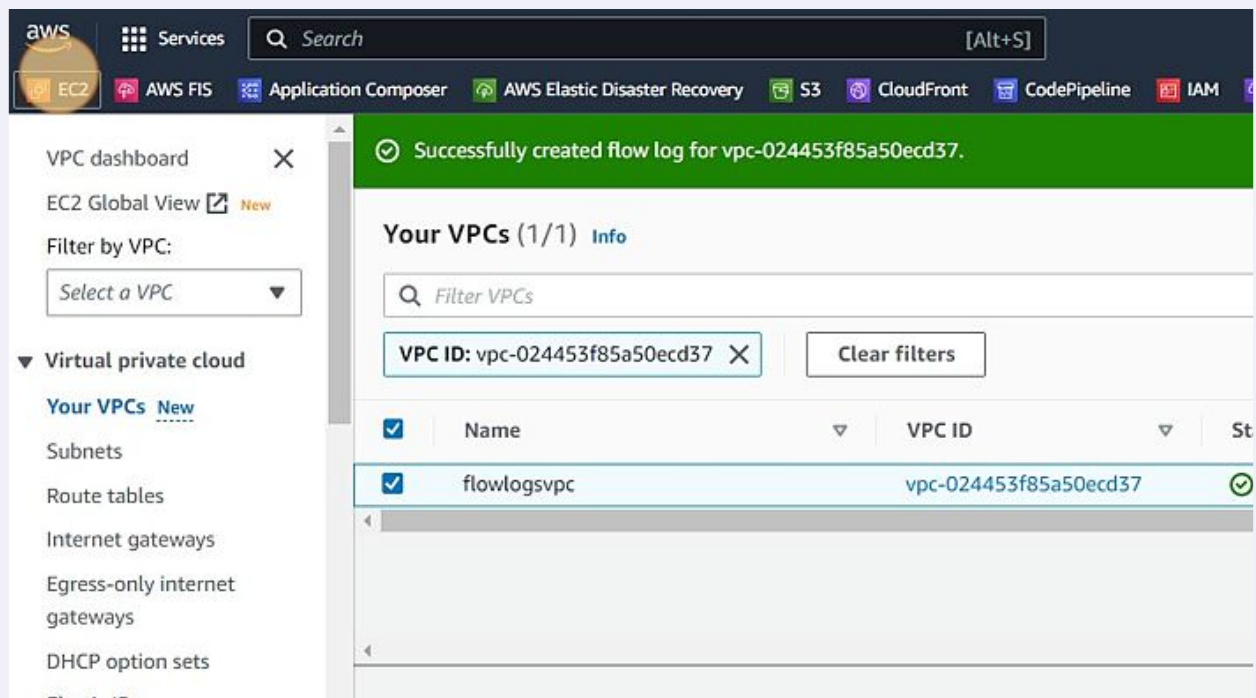
`{action} ${log-status}`

g consists of a key and an optional value. You can use tags to search and filter

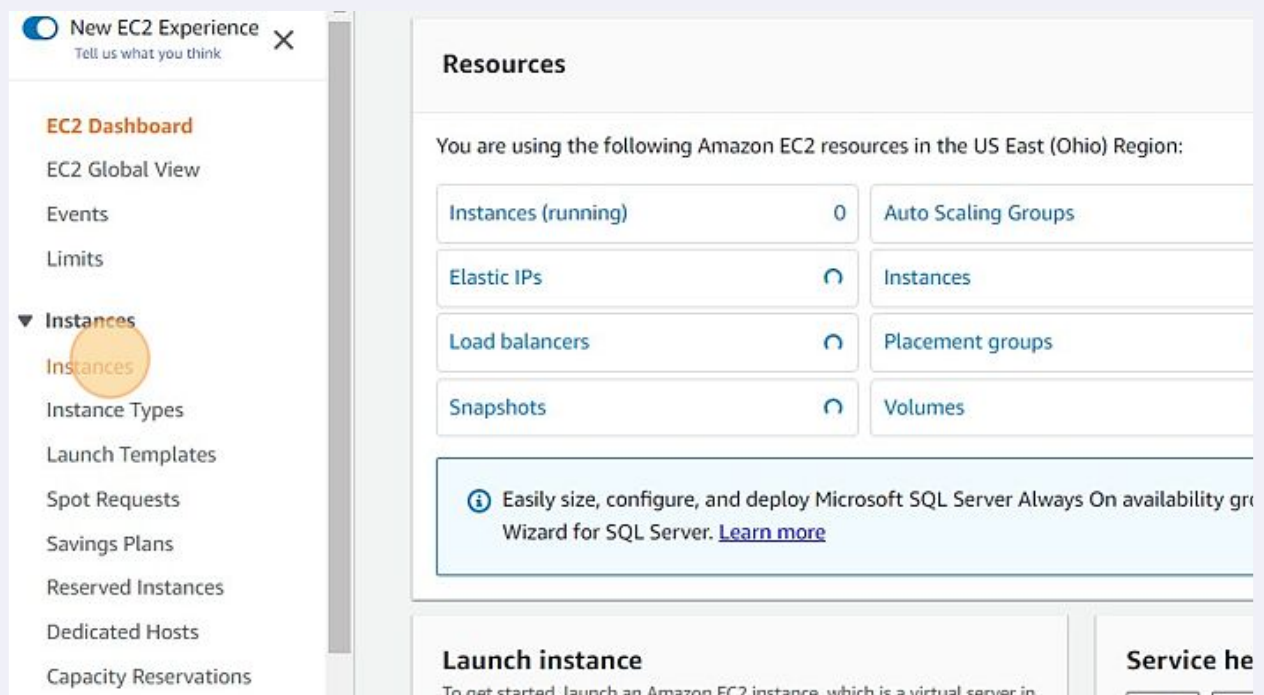
**e - optional**

© 2023, Ar

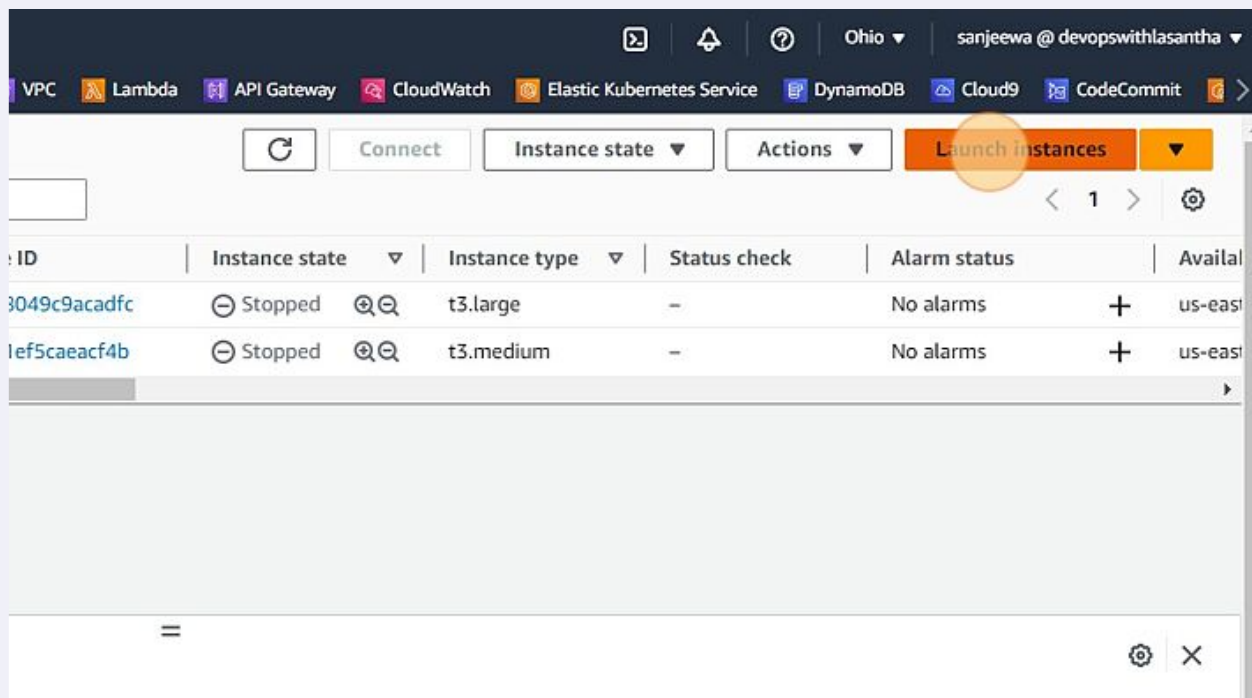
67 Click here.



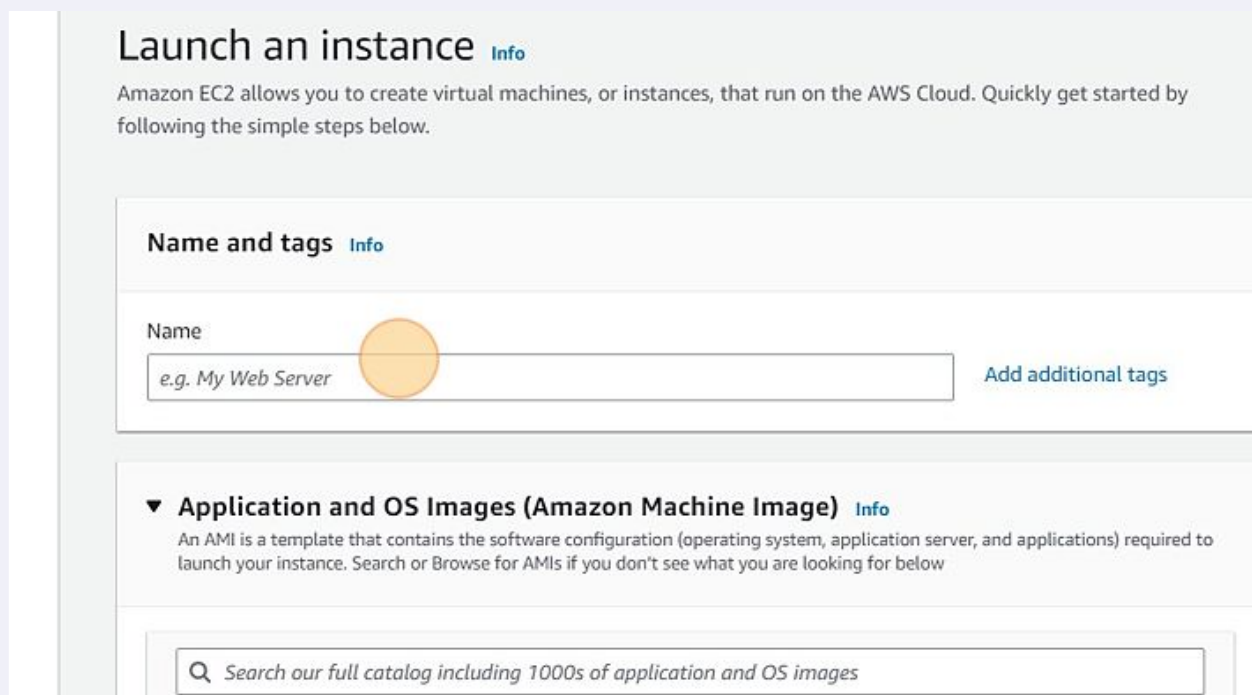
68 Click "Instances"



## 69 Click "Launch instances"



## 70 Click the "Name" field.



**71** 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 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

**72** Type "flowlogsec2"

### 73 Click here.

On-Demand RHEL pricing: 0.0716 USD per Hour

---

▼ **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*

Select

Create new key pair

---

▼ **Network settings** [Info](#) Edit

Network [Info](#)  
vpc-70bd381b | Default\_VPC

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

### 74 Click "Select"

On-Demand windows pricing: 0.0702 USD per Hour  
On-Demand RHEL pricing: 0.0716 USD per Hour

---

▼ **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*

Select

Create new key pair

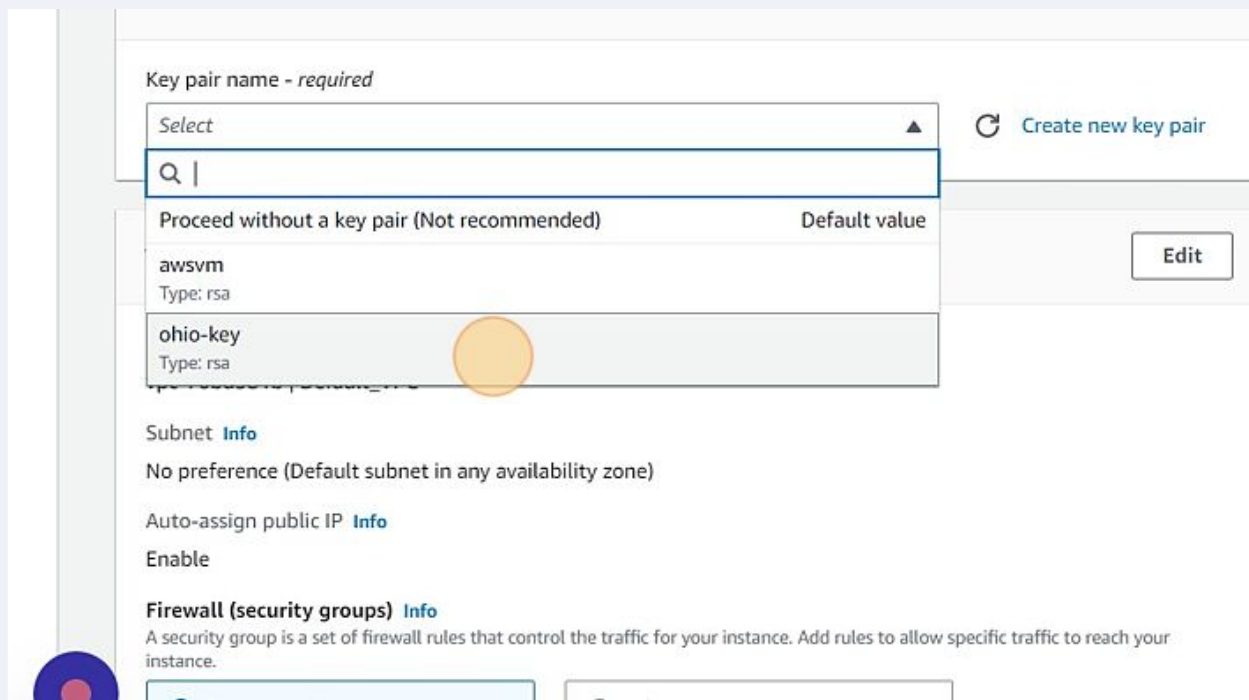
---

▼ **Network settings** [Info](#) Edit

Network [Info](#)  
vpc-70bd381b | Default\_VPC

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

## 75 Click "Type: rsa"



Key pair name - *required*

Select

Q |

Proceed without a key pair (Not recommended) Default value

awsvm  
Type: rsa

ohio-key  
Type: rsa

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

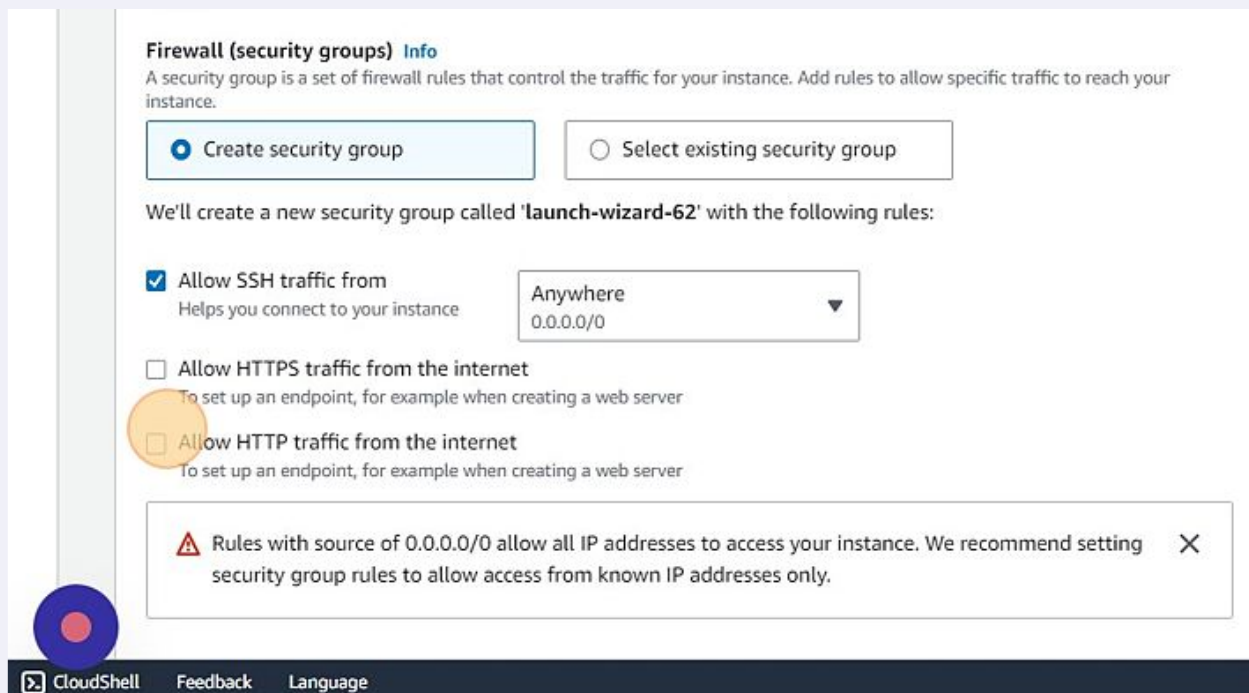
Firewall (security groups) [Info](#)

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 new key pair

Edit

## 76 Click "Allow HTTP traffic from the internet"



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-62' with the following rules:

☒ Allow SSH traffic from  
Helps you connect to your instance

Anywhere  
0.0.0.0/0

☐ 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.**

CloudShell Feedback Language

## 77 Click "Edit"

The screenshot shows the AWS console interface for creating an EC2 instance. At the top, there is a navigation bar with various AWS services. Below it, there is a section for 'Key pair' with a dropdown menu and a 'Create new key pair' button. To the right, there is a 'Summary' section with various configuration options. The 'Edit' button is highlighted in a yellow circle.

[Alt+S]

Disaster Recovery S3 CloudFront CodePipeline IAM VPC Lambda API Gateway CloudWatch El

▼ Create new key pair

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.0.2...[read more](#)  
ami-08333bccc35d71140

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

ty zone)

ie traffic for your instance. Add rules to allow specific traffic to reach your

## 78 Click "172.31.0.0/16"

The screenshot shows the AWS console interface for creating an EC2 instance. The 'Key pair name' dropdown is set to 'ohio-key'. The 'Network settings' section is expanded, showing the 'VPC' dropdown set to 'vpc-70bd381b (Default\_VPC)' with the IP address '172.31.0.0/16' highlighted in a yellow circle. The 'Subnet' dropdown is set to 'No preference'. The 'Auto-assign public IP' dropdown is set to 'Enable'. The 'Firewall (security groups)' section is also visible.

Key pair name - required

ohio-key ▼ Create new key pair

▼ Network settings [Info](#)

VPC - required [Info](#)

vpc-70bd381b (Default\_VPC) (default) ▼

172.31.0.0/16

Subnet [Info](#)

No preference ▼ 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



79 Click "vpc-024453f85a50ecd37 (flowlogsvpc)"

▼ Network settings Info

VPC - required Info

|  |             |                     |
|--|-------------|---------------------|
| vpc-70bd381b (Default_VPC)<br>172.31.0.0/16        | (default) ▲ | ↻                   |
| <input type="text" value="Q  "/>                   |             |                     |
| vpc-024453f85a50ecd37 (flowlogsvpc)<br>10.1.0.0/16 |             | ↻ Create new subnet |
| vpc-70bd381b (Default_VPC)<br>172.31.0.0/16        | (default) ✓ |                     |

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

80 Click "subnet-061b9fd27c3355dca"

▼ Network settings Info

VPC - required Info

vpc-024453f85a50ecd37 (flowlogsvpc)  
10.1.0.0/16

Subnet Info

subnet-061b9fd27c3355dca flowlogssubnet1  
VPC: vpc-024453f85a50ecd37 Owner: 932747549174 Availability Zone: us-east-2a  
IP addresses available: 251 CIDR: 10.1.1.0/24

Auto-assign public IP Info

Disable

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



## 81 Click "flowlogssubnet1"

VPC - required [Info](#)

vpc-024453f85a50ecd37 (flowlogsvpc)  
10.1.0.0/16

Subnet [Info](#)

subnet-061b9fd27c3355dca flowlogssubnet1  
VPC: vpc-024453f85a50ecd37 Owner: 932747549174 Availability Zone: us-east-2a  
IP addresses available: 251 CIDR: 10.1.1.0/24

Q |

subnet-061b9fd27c3355dca flowlogssubnet1  
VPC: vpc-024453f85a50ecd37 Owner: 932747549174  
Availability Zone: us-east-2a IP addresses available: 251 CIDR: 10.1.1.0/24

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-62

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, and . \_ / ! # \$ % & ' ( ) \* + , - . : ; [ \ ] ^ \_ { | } ~

## 82 Click "Disable"

VPC - required [Info](#)

vpc-024453f85a50ecd37 (flowlogsvpc)  
10.1.0.0/16

Subnet [Info](#)

subnet-061b9fd27c3355dca flowlogssubnet1  
VPC: vpc-024453f85a50ecd37 Owner: 932747549174 Availability Zone: us-east-2a  
IP addresses available: 251 CIDR: 10.1.1.0/24

Auto-assign public IP [Info](#)

Disable

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.

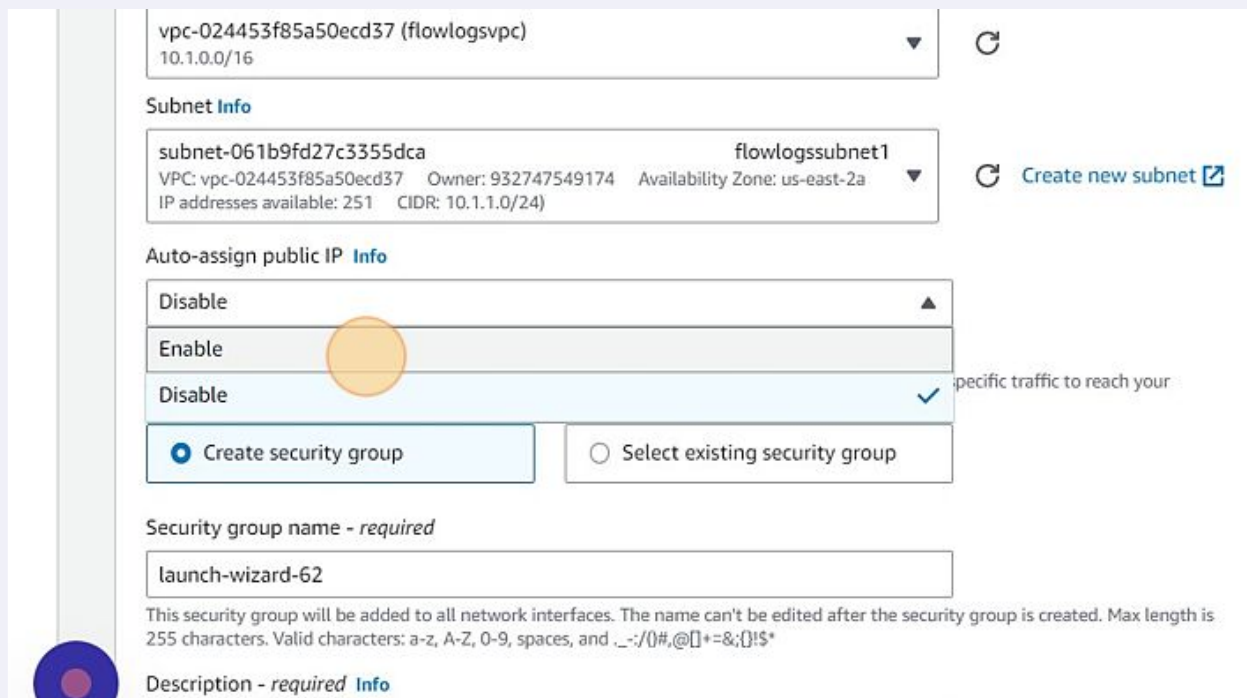
☒ Create security group ☐ Select existing security group

Security group name - required

launch-wizard-62

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, and . \_ / ! # \$ % & ' ( ) \* + , - . : ; [ \ ] ^ \_ { | } ~

### 83 Click "Enable"



vpc-024453f85a50ecd37 (flowlogsvpc)  
10.1.0.0/16

**Subnet Info**

subnet-061b9fd27c3355dca flowlogssubnet1  
VPC: vpc-024453f85a50ecd37 Owner: 932747549174 Availability Zone: us-east-2a  
IP addresses available: 251 CIDR: 10.1.1.0/24

**Auto-assign public IP Info**

Disable  
Enable  
Disable

☒ Create security group ☐ Select existing security group

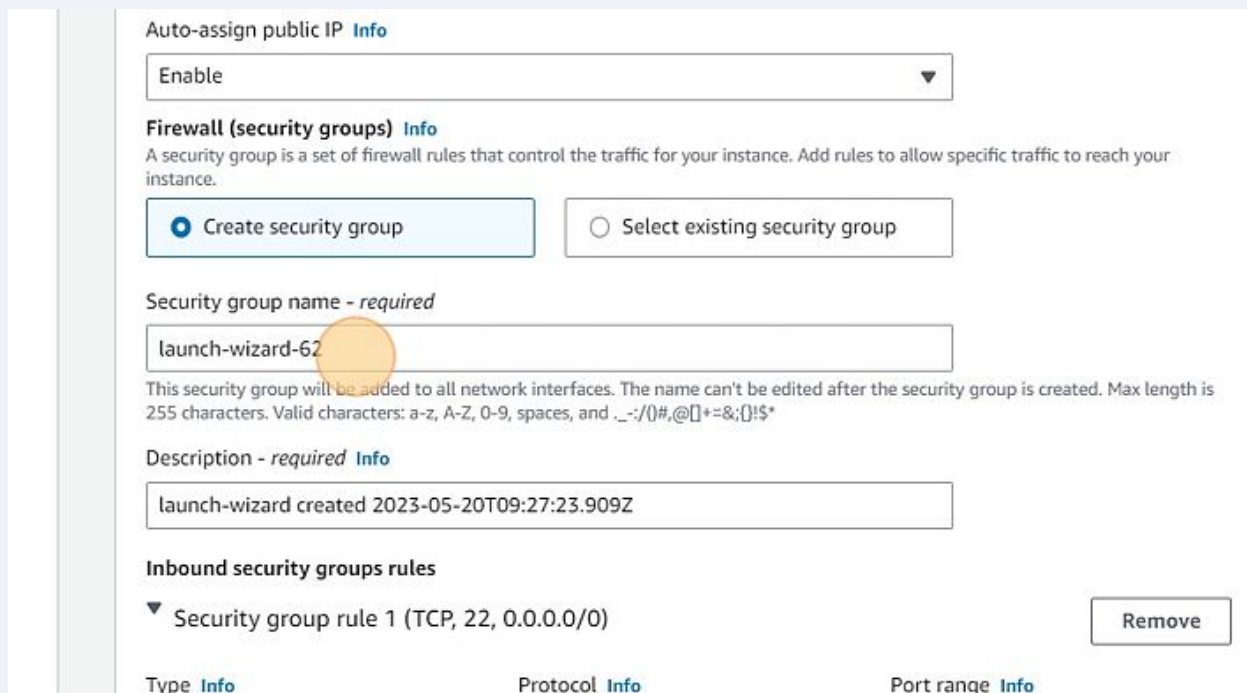
**Security group name - required**

launch-wizard-62

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, and . \_ : / ( ) # , @ [ ] \* = & ; ! \$ \*

**Description - required Info**

### 84 Click the "Security group name - required" field.



**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-62

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, and . \_ : / ( ) # , @ [ ] \* = & ; ! \$ \*

**Description - required Info**

launch-wizard created 2023-05-20T09:27:23.909Z

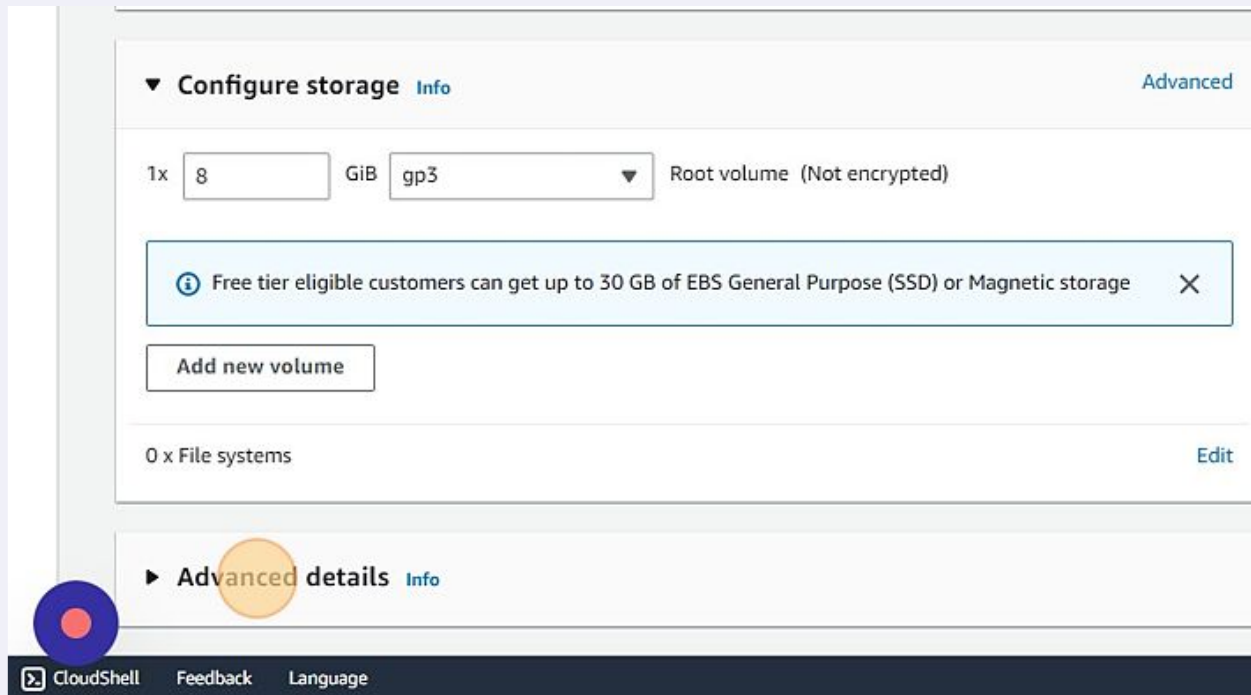
**Inbound security groups rules**

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

Type Info Protocol Info Port range Info

85 Type "flow-logs-sg"

86 Click "Advanced details"



The screenshot shows the AWS console's storage configuration page. At the top, there's a section titled "Configure storage" with an "Info" link and an "Advanced" toggle. Below this, a configuration row shows "1x" followed by a text input containing "8", a "GiB" unit, a dropdown menu showing "gp3", and the text "Root volume (Not encrypted)". A light blue informational banner below this row states: "Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage" with a close button. Below the banner is a button labeled "Add new volume". Further down, it shows "0 x File systems" with an "Edit" link. At the bottom of the configuration area is a section titled "Advanced details" with an "Info" link. A blue circular icon with a red dot is positioned to the left of the "Advanced details" section. The footer of the console includes a "CloudShell" icon and text, a "Feedback" link, and a "Language" link.

▼ **Configure storage** [Info](#) [Advanced](#)


1x  GiB  ▼ Root volume (Not encrypted)

[Free tier eligible customers can get up to 30 GB of EBS General Purpose \(SSD\) or Magnetic storage](#) ✕

[Add new volume](#)

0 x File systems [Edit](#)

► **Advanced details** [Info](#)

 CloudShell [Feedback](#) [Language](#)

87 Right-click the "User data - optional Info" field.

Metadata response hop limit [Info](#)

Select

Allow tags in metadata [Info](#)

Select

User data - optional [Info](#)

Enter user data in the field.

The 'User data - optional' field is highlighted with an orange circle.

88 Click "Launch instance"

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

Cancel

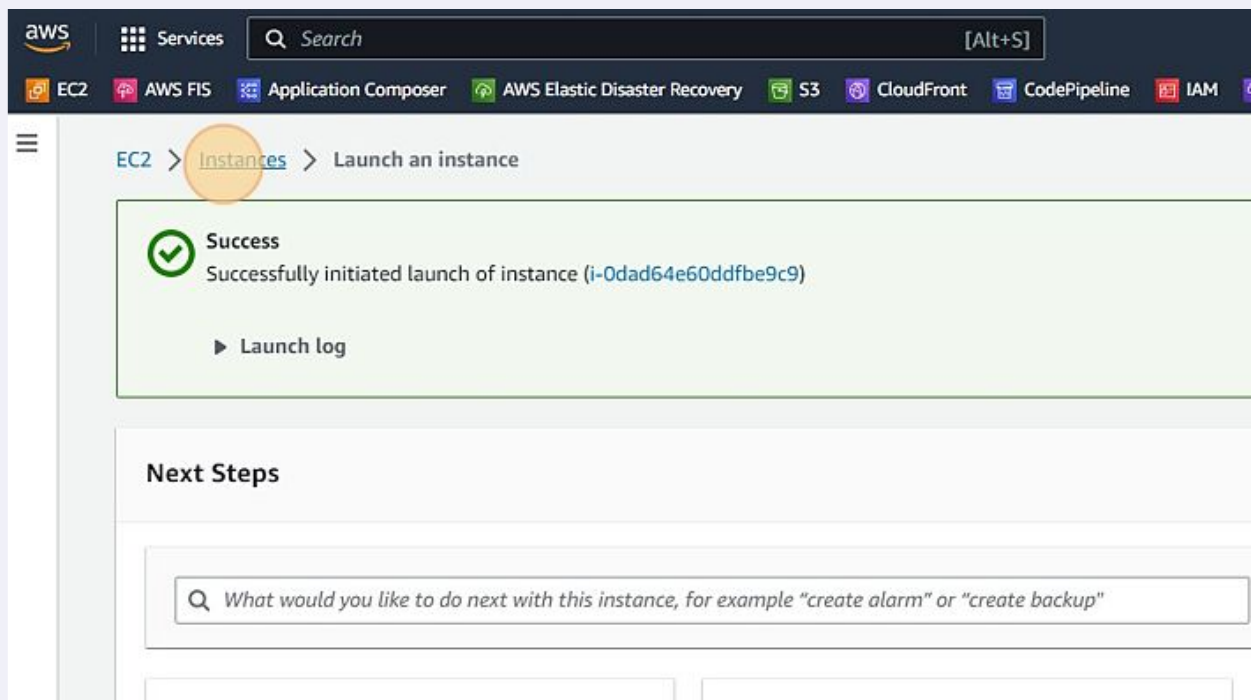
**Launch instance**

[Review commands](#)

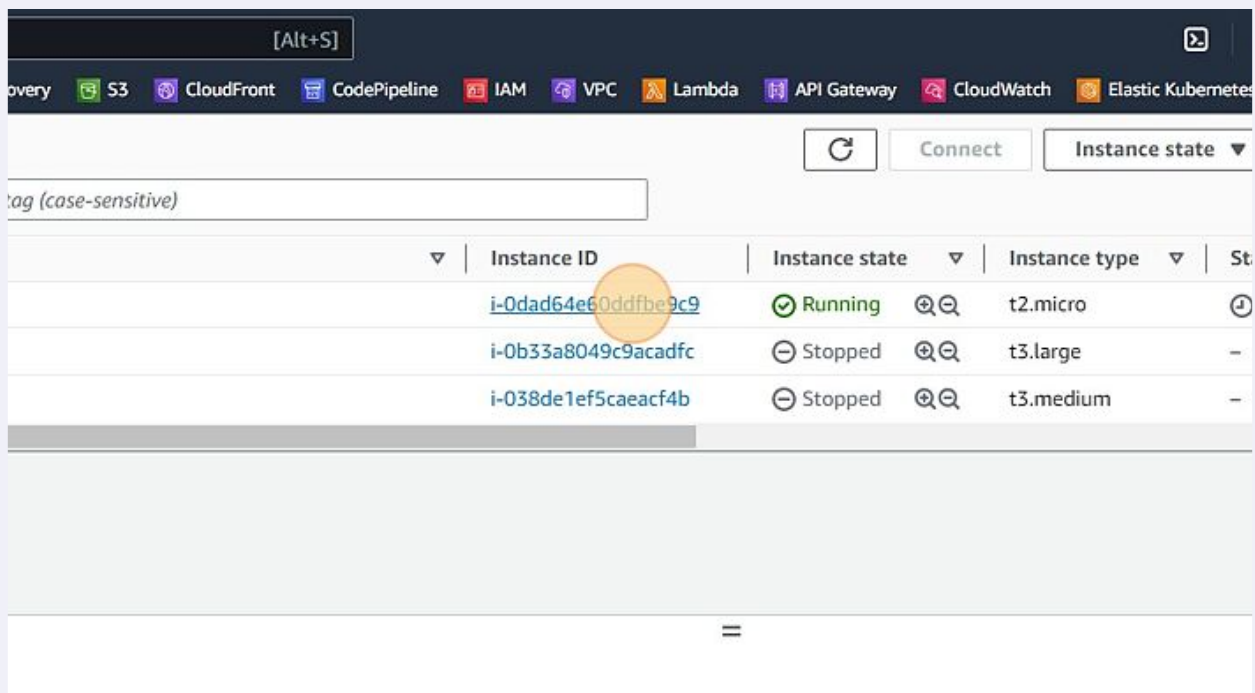
© 2023, Amazon Web Services, Inc. or its affiliates. [Privacy](#) [Terms](#)

The 'Launch instance' button is highlighted with an orange circle.

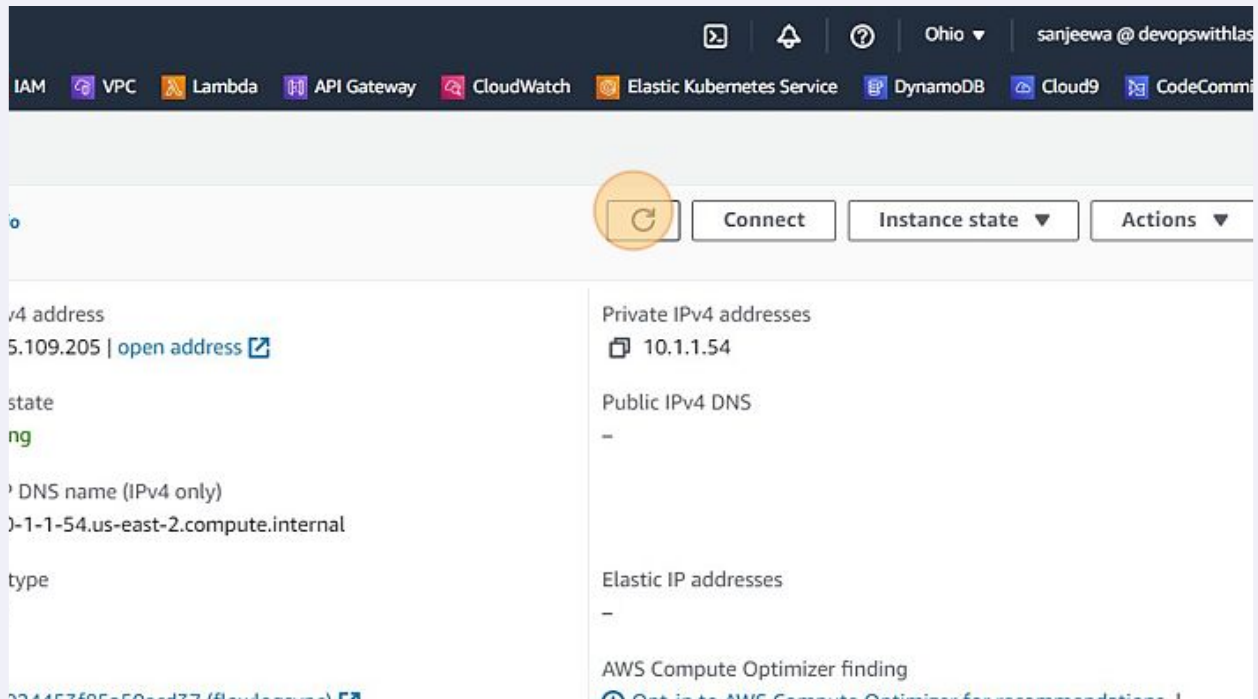
89 Click "Instances"



90 Click "i-0dad64e60ddfbe9c9"

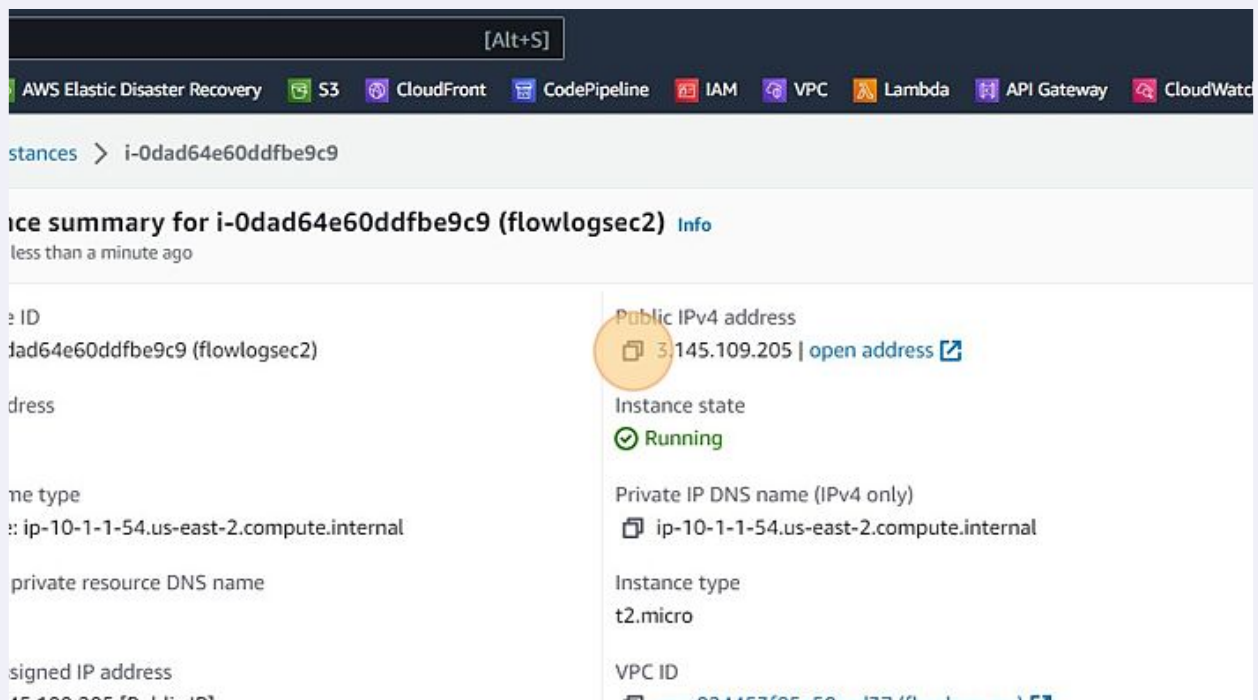


91 Click here.



The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with various AWS services like IAM, VPC, Lambda, API Gateway, CloudWatch, Elastic Kubernetes Service, DynamoDB, Cloud9, and CodeCommit. Below this, the main content area displays the details of an EC2 instance. A yellow circle highlights the 'Refresh' button (a circular arrow icon) in the top right corner of the instance details pane. The instance details pane shows fields like 'Public IPv4 address' (5.109.205), 'Private IPv4 addresses' (10.1.1.54), 'Instance state' (Running), and 'Instance type' (t2.micro).

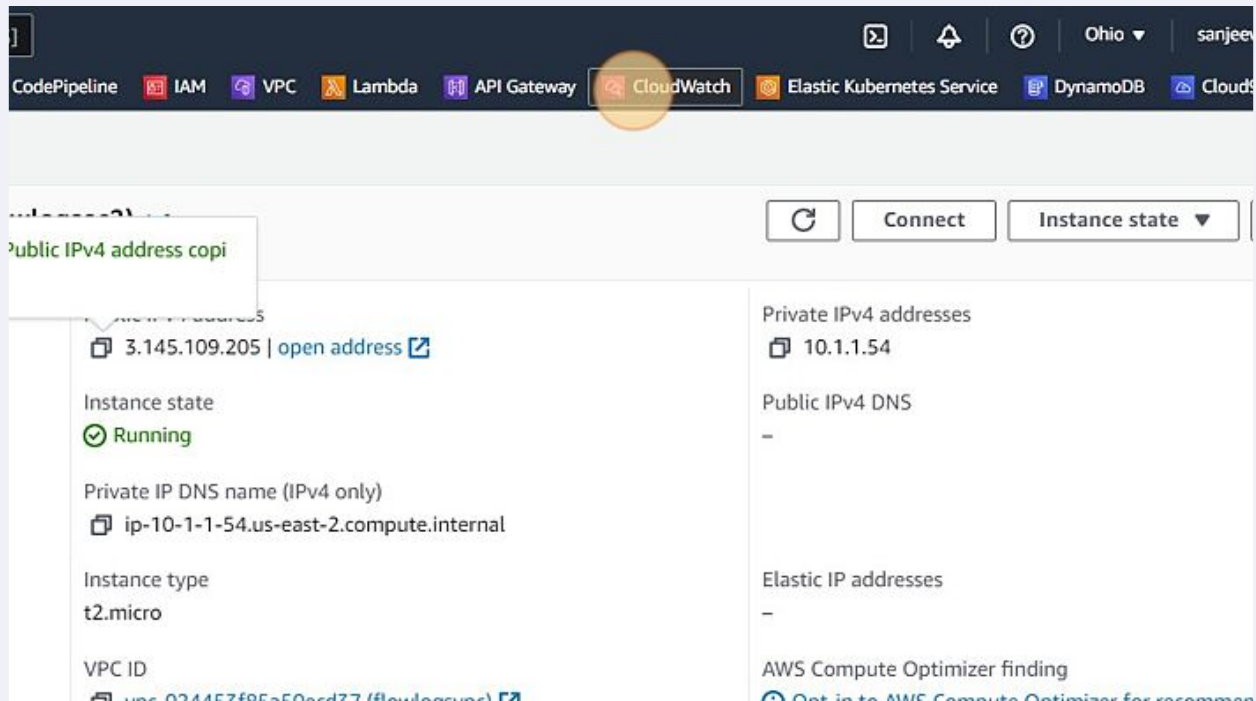
92 Click here.



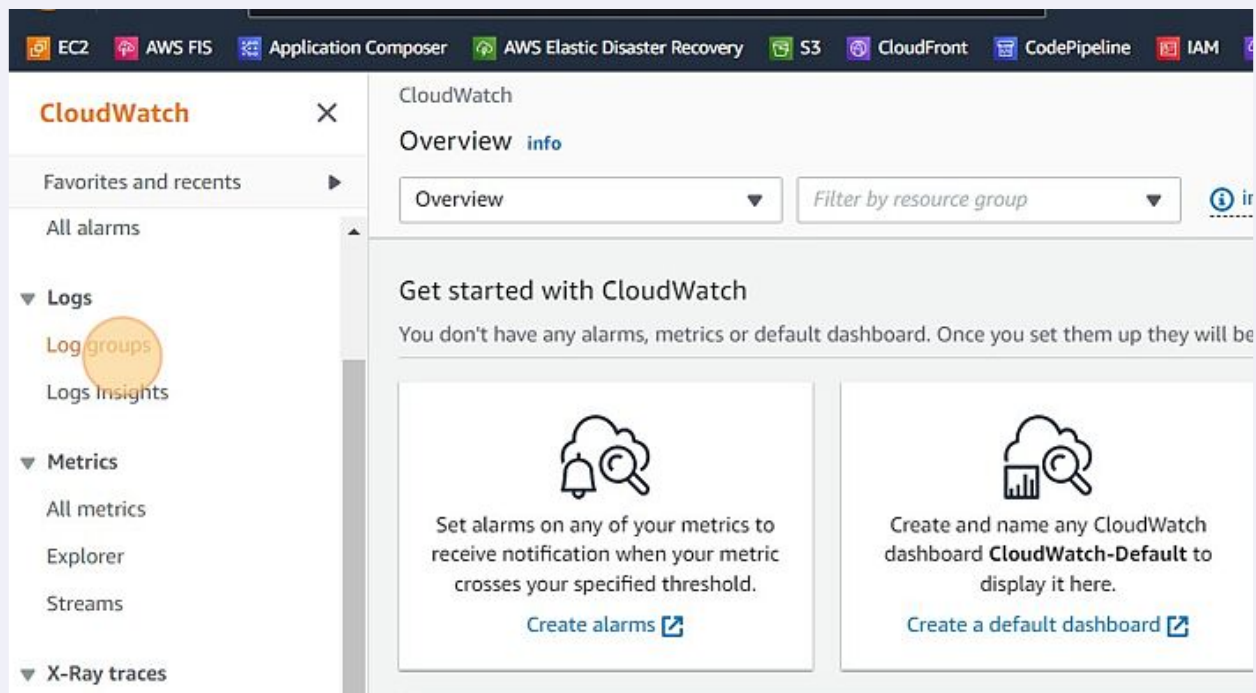
The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with various AWS services like AWS Elastic Disaster Recovery, S3, CloudFront, CodePipeline, IAM, VPC, Lambda, API Gateway, and CloudWatch. Below this, the main content area displays the details of an EC2 instance. A yellow circle highlights the 'Public IPv4 address' field, which displays '3.145.109.205' with a copy icon and a link to 'open address'. The instance details pane shows fields like 'Instance ID' (i-0dad64e60ddfbe9c9), 'Instance state' (Running), 'Private IP DNS name (IPv4 only)' (ip-10-1-1-54.us-east-2.compute.internal), 'Instance type' (t2.micro), and 'VPC ID' (vpc-0344f7f8e5f0aed77).



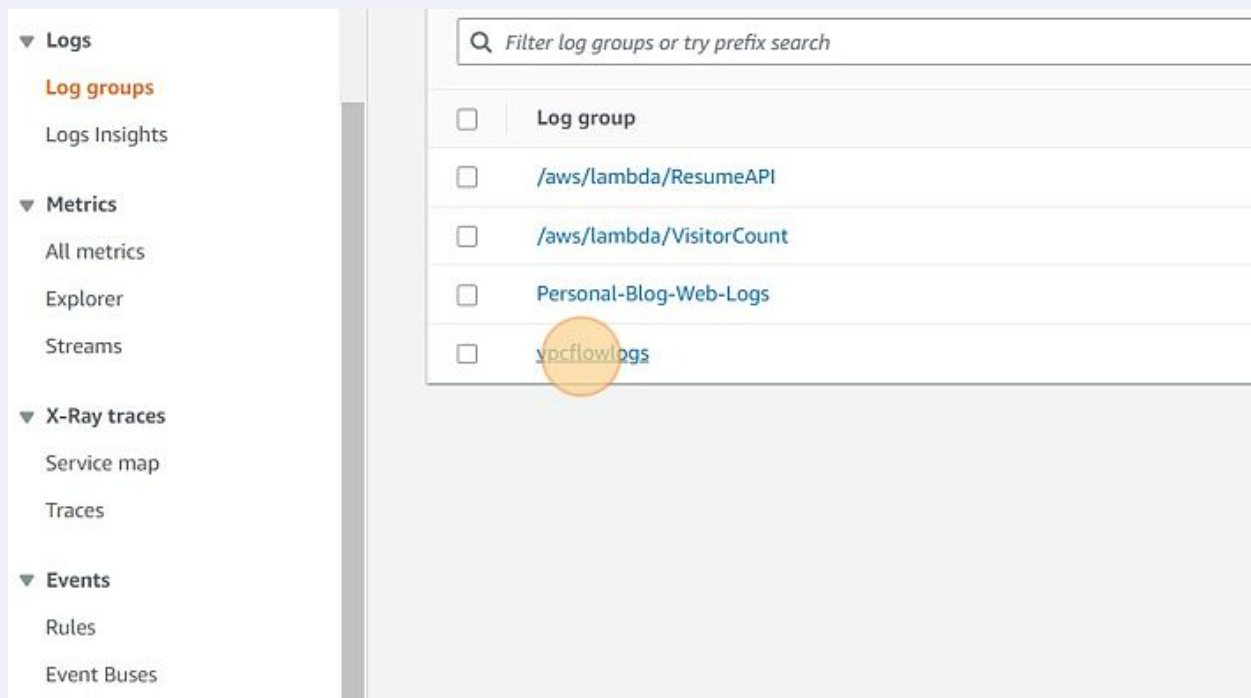
### 93 Click "CloudWatch"



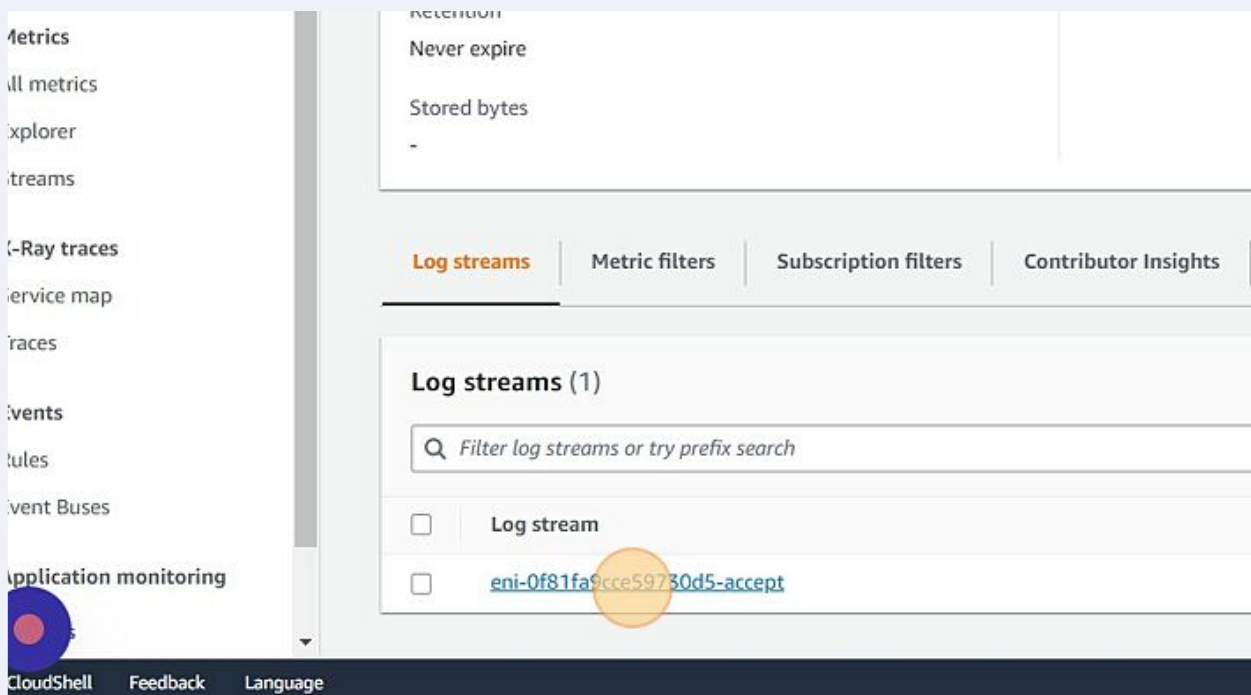
### 94 Click "Log groups"



95 Click "vpcflowlogs"

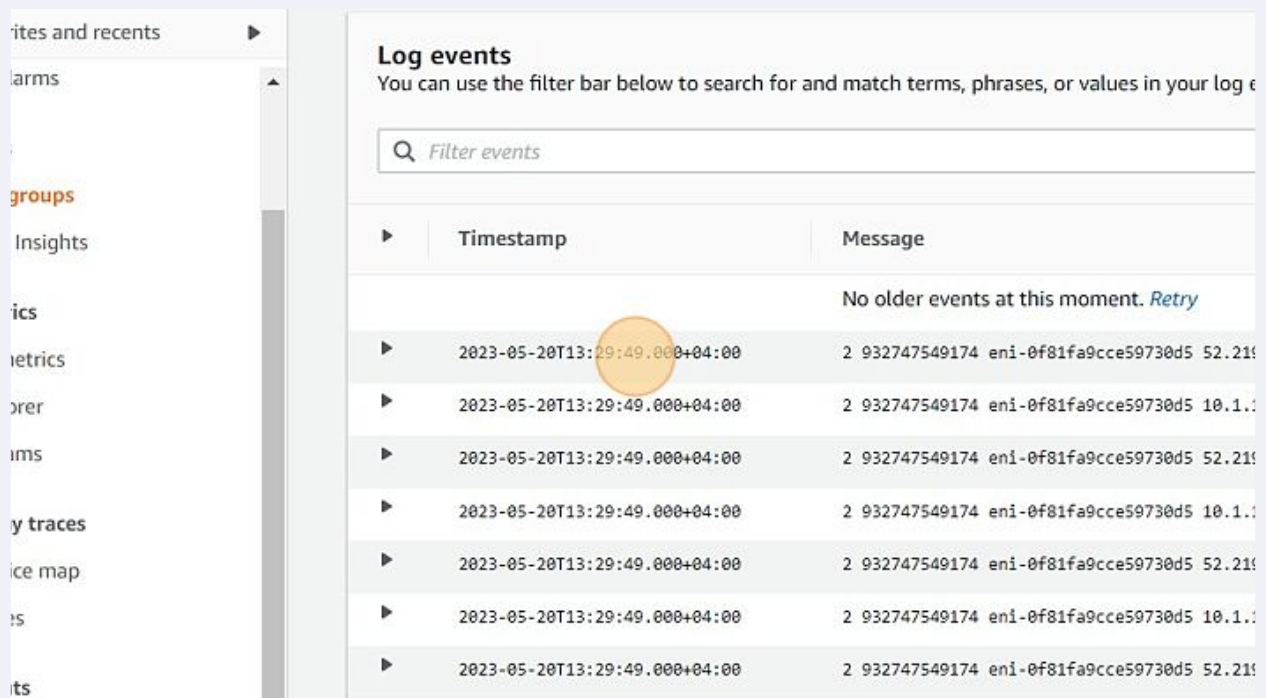


96 Click "eni-0f81fa9cce59730d5-accept"





## 97 Expand one Log event

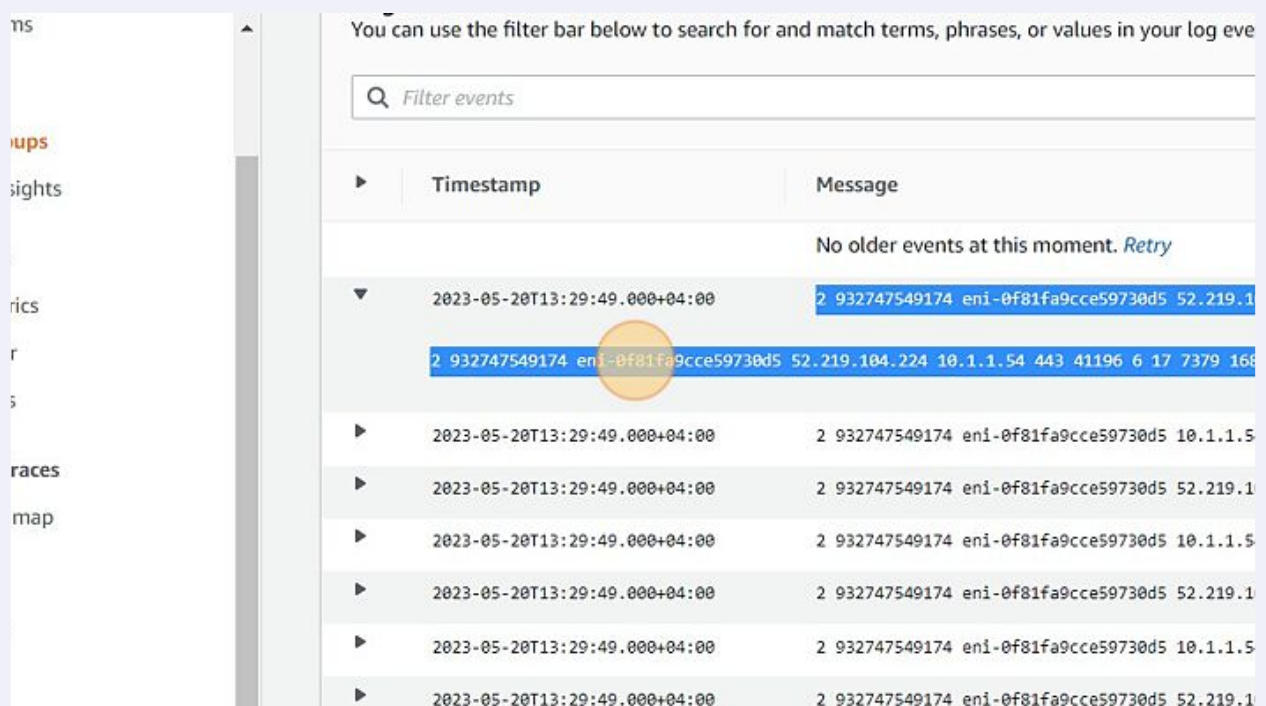


**Log events**  
You can use the filter bar below to search for and match terms, phrases, or values in your log events.

Filter events

| ▶   | Timestamp                     | Message   |
|---|-------------------------------|---|
| No older events at this moment. <a href="#">Retry</a> |                               |   |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK                |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK                |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK                |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK |

## 98 You can see your Logs Event in the default format. Example "2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK"



**Log events**  
You can use the filter bar below to search for and match terms, phrases, or values in your log events.

Filter events

| ▶   | Timestamp                     | Message   |
|---|-------------------------------|---|
| No older events at this moment. <a href="#">Retry</a> |                               |   |
| ▼   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK                |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK                |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK                |
| ▶   | 2023-05-20T13:29:49.000+04:00 | 2 932747549174 eni-0f81fa9cce59730d5 52.219.104.224 10.1.1.54 443 41196 6 17 7379 1684574989 1684575022 ACCEPT OK |

