

# 17. VIRTUAL PRIVATE CLOUD (VPC)

A virtual private cloud (VPC) is a virtual network that closely resembles a traditional network that you'd operate in your own data centre, with the benefits of using the scalable infrastructure of Amazon Web Services (AWS).

Amazon Virtual Private Cloud (Amazon VPC) enables you to launch Amazon Web Services (AWS) resources into a virtual network that you've defined.

You can create isolated networks for your applications or clients.

**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. You can configure your VPC; you can select its IP address range, create subnets, and configure route tables, network gateways, and security settings.

**Subnet:** A *subnet* is a range of IP addresses in your VPC. You can launch AWS resources into a subnet that you select. 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.

**Route Table:** A *route table* contains a set of rules, called *routes*, that are used to determine where network traffic is directed.

Each subnet in your VPC must be associated with a route table; the table controls the routing for the subnet. A subnet can only be associated with one route table at a time, but you can associate multiple subnets with the same route table.

**Internet Gateway:** An Internet gateway is a horizontally scaled, redundant, and highly available VPC component that allows communication between instances in your VPC and the Internet. It therefore imposes no availability risks or bandwidth constraints on your network traffic.

**An Internet gateway serves two purposes:** to provide a target in your VPC route tables for Internet-routable traffic, and to perform network address translation (NAT) for instances that have been assigned public IP addresses.

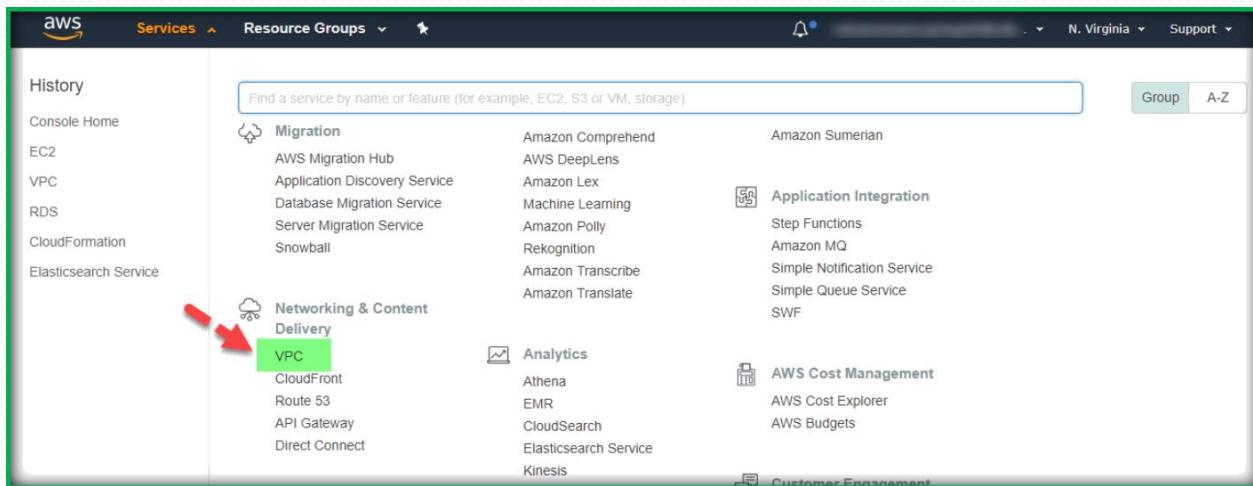
**Network ACLs:** A *network access control list (ACL)* is an optional layer of security for your VPC that acts as a firewall for controlling traffic in and out of one or more subnets. You might set up network ACLs with rules similar to your security groups in order to add an additional layer of security to your VPC.

Scenario	Usage
Scenario 1: VPC with a Single Public Subnet	Your instances run in a private, isolated section of the AWS cloud with direct access to the Internet.
Scenario 2: VPC with Public and Private Subnets (NAT)	In addition to containing a public subnet, this configuration adds a private subnet whose instances are not addressable from the Internet. Instances in the private subnet can establish outbound connections to the Internet via the public subnet using Network Address Translation (NAT).
Scenario 3: VPC with Public and Private Subnets and Hardware VPN Access	This configuration adds an IPsec Virtual Private Network (VPN) connection between your Amazon VPC and your data center - effectively extending your data center to the cloud while also providing direct access to the Internet for public subnet instances in your Amazon VPC.
Scenario 4: VPC with a Private Subnet Only and Hardware VPN Access	Your instances run in a private, isolated section of the AWS cloud with a private subnet whose instances are not addressable from the Internet. You can connect this private subnet to your corporate data center via an IPsec Virtual Private Network (VPN) tunnel.

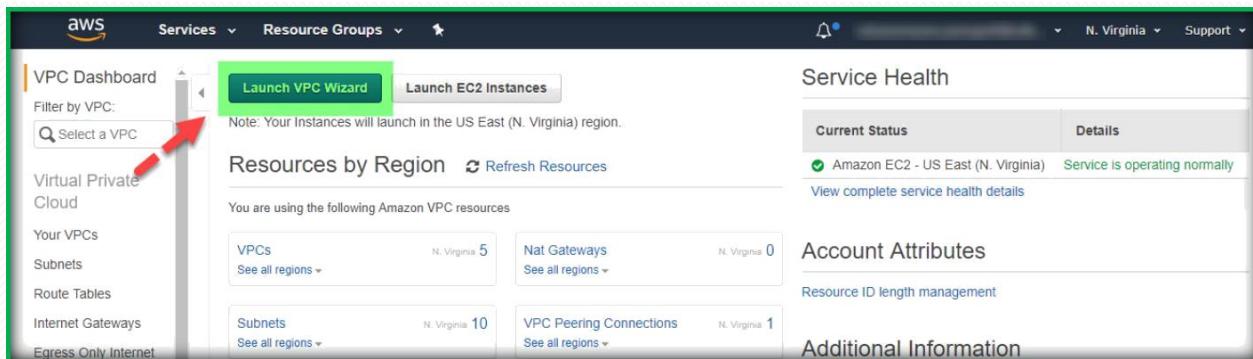
# VPC CONFIGURATION

## Creating VPC using VPC wizard:

Once you have logged in to AWS, click on VPC under Networking & Content Delivery section from the service drop down list.



Once you are in VPC dashboard page, click on **Launch VPC Wizard**.



In the next page, select one VPC configuration as per your requirement.  
In this example we are selecting **VPC with Public and Private Subnets**.  
Once selected, click on Select.

## Step 1: Select a VPC Configuration

VPC with a Single Public Subnet

**VPC with Public and Private Subnets**

VPC with Public and Private Subnets and Hardware VPN Access

VPC with a Private Subnet Only and Hardware VPN Access

In addition to containing a public subnet, this configuration adds a private subnet whose instances are not addressable from the Internet. Instances in the private subnet can establish outbound connections to the Internet via the public subnet using Network Address Translation (NAT).

Creates:

Selected this option with two /24 subnets. Public subnet instances use Elastic IP addresses. Private subnet instances access the Internet via Network Address Translation (NAT). (Hourly charges for NAT devices apply.)

Click on Select

Select

Amazon Virtual Private Cloud

Public Subnet

NAT

Private Subnet

In the next window, specify a IP CIDR block, VPC Name, Specify Public Subnet IP range, select the Availability zone from the drop down list, specify a name for public subnet, specify a IP range for private subnet, availability zone from the drop down list, and specify a name for private subnet.

## Step 2: VPC with Public and Private Subnets

IP CIDR block: \*  (65531 IP addresses available)

VPC name:

Public subnet: \*  (251 IP addresses available)

Availability Zone: \*

Public subnet name:

Private subnet: \*  (251 IP addresses available)

Availability Zone: \*

Private subnet name:

You can add more subnets after AWS creates the VPC.

In the middle of the page select **Use a NAT instance instead.**

Specify the details of your NAT gateway (NAT gateway rates apply).

Elastic IP Allocation ID:

Add endpoints for S3 to your subnets

Subnet:  None

Enable DNS hostnames:  Yes  No

Hardware tenancy:  Default

[Use a NAT instance instead](#)

[Click here to select NAT instance](#)

[Cancel and Exit](#) [Back](#) [Create VPC](#)

In the below of the page, after clicking Nat instead, select Instance type for NAT and Key pair for NAT instance.

Then leave rest to defaults and click on **Create VPC**.

Specify the details of your NAT instance (Instance rates apply).

Instance type:  t2.micro

Key pair name:  linux

Add endpoints for S3 to your subnets

Subnet:  None

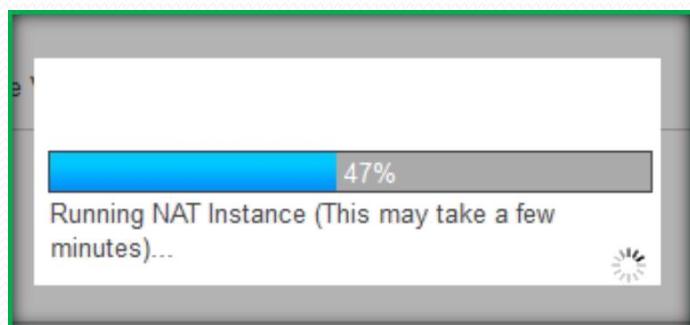
Enable DNS hostnames:  Yes  No

Hardware tenancy:  Default

[Click on Create VPC](#)

[Cancel and Exit](#) [Back](#) [Create VPC](#)

It will start creating VPC with selected configuration.



Once created, you will be displaying message on the saying VPC successfully Created, click on OK to continue to access the VPC.

VPC Successfully Created

Your VPC has been successfully created.  
You can launch instances into the subnets of your VPC. For more information, see [Launching an Instance into Your Subnet](#).



Once completion of VPC creation, go to **Your VPCs** from left pane under VPC dashboard.

You can be able to see the created VPC.

The screenshot shows the AWS VPC Dashboard. On the left sidebar, under 'Your VPCs', there is a green arrow pointing to the 'demo' entry in the list. The main pane displays a table of VPCs with columns: Name, VPC ID, State, VPC CIDR, DHCP options set, and Route table. One row is selected, highlighting 'demo' in red. Below the table, a summary card provides details for the selected VPC:

Name	VPC ID	State	VPC CIDR	DHCP options set	Route table
demo	vpc-0c270069	available	10.0.0.0/16	dopt-05198260	rtb-819799e4
	vpc-adfea0c8	available	172.31.0.0/16	dopt-05198260	rtb-0ecacab6b

**Summary** | **Flow Logs** | **Tags**

VPC ID: vpc-0c270069 | demo      Network ACL: acl-1d696878  
State: available      Tenancy: Default  
VPC CIDR: 10.0.0.0/16      DNS resolution: yes  
DHCP options set: dopt-05198260      DNS hostnames: yes  
Route table: rtb-819799e4      ClassicLink DNS Support: no

## Security in Your VPC

Amazon VPC provides three features that you can use to increase and monitor the security for your VPC:

**Security groups:** Act as a firewall for associated Amazon EC2 instances, controlling both inbound and outbound traffic at the instance level

**Network access control lists (ACLs):** Act as a firewall for associated subnets, controlling both inbound and outbound traffic at the subnet level

**Flow logs:** Capture information about the IP traffic going to and from network interfaces in your VPC

# Network access control lists (ACLs)

Once you are VPC dashboard, click on Filter by VPC and select your VPC from the drop-down list.

The screenshot shows the AWS VPC Dashboard. On the left, there's a sidebar with options like Your VPCs, Subnets, Route Tables, Internet Gateways, and DHCP Options Sets. The main area has a 'Create VPC' button and an 'Actions' dropdown. A 'Filter by VPC:' dropdown is open, showing 'None' and 'demo'. Below it is a search bar with placeholder text 'Search VPCs and their properties'. A table lists VPCs with columns: Name, VPC ID, State, VPC CIDR, and DHC. Two VPCs are listed: 'demo' (VPC ID: 270069, State: available, CIDR: 10.0.0.0/16) and 'vpc-adfeaa0c8' (VPC ID: fea0c8, State: available, CIDR: 172.31.0.0/16). A green arrow points from the text 'Select recently created VPC' to the 'demo' row. A red box highlights the 'demo' row. A pink box highlights the 'demo' row with the text 'Select recently created VPC'. A message at the bottom says 'Select a VPC above'.

From left pane select Network ACLs under Security.

This screenshot shows the same VPC Dashboard as the previous one, but with a different focus. The sidebar now includes 'Network ACLs' under the 'Security' section, which is highlighted with a red box. A blue dashed arrow points from a callout bubble with the text 'Click on Network ACLs' to this highlighted option. The rest of the interface is identical to the first screenshot, showing the VPC list and the 'Select a VPC above' message.

Under Network ACLs page select your NACL and click on Inbound Rules under the page to see the inbound rules.

The screenshot shows the AWS Network ACLs interface. At the top, there are buttons for 'Create Network ACL' and 'Delete'. A search bar is present with placeholder text 'Search Network ACLs and their...'. Below the search bar is a table with columns: Name, Network ACL ID, Associated With, Default, and VPC. One row is visible: 'acl-1d696878', '2 Subnets', 'Yes', and 'vpc-0c270069 (10.0.0.0/16) | demo'. The main area is titled 'acl-1d696878'. It contains tabs: 'Summary' (disabled), 'Inbound Rules' (selected and highlighted with a red box), 'Outbound Rules', 'Subnet Associations', and 'Tags'. A note below the tabs states: 'Allows inbound traffic. Because network ACLs are stateless, you must create inbound and outbound rules.' Below this is an 'Edit' button and a table for inbound rules:

Rule #	Type	Protocol	Port Range	Source	Allow / Deny
100	ALL Traffic	ALL	ALL	0.0.0.0/0	ALLOW
*	ALL Traffic	ALL	ALL	0.0.0.0/0	DENY

By default, everything is allowed at inbound and as well as outbound.  
By click on Outbound rules you can see the default outbound rules.

The screenshot shows the AWS Network ACLs interface. At the top, there are buttons for 'Create Network ACL' and 'Delete'. A search bar is present with placeholder text 'Search Network ACLs and their...'. Below the search bar is a table with columns: Name, Network ACL ID, Associated With, Default, and VPC. One row is visible: 'acl-1d696878', '2 Subnets', 'Yes', and 'vpc-0c270069 (10.0.0.0/16) | demo'. The main area is titled 'acl-1d696878'. It contains tabs: 'Summary' (disabled), 'Inbound Rules', 'Outbound Rules' (selected and highlighted with a red box), 'Subnet Associations', and 'Tags'. A note below the tabs states: 'Allows outbound traffic. Because network ACLs are stateless, you must create inbound and outbound rules.' Below this is an 'Edit' button and a table for outbound rules:

Rule #	Type	Protocol	Port Range	Destination	Allow / Deny
100	ALL Traffic	ALL	ALL	0.0.0.0/0	ALLOW
*	ALL Traffic	ALL	ALL	0.0.0.0/0	DENY

By clicking on Subnet associations, you can see subnets which are associated with this NACL.

The screenshot shows the AWS CloudFormation console interface for managing a Network ACL (NACL). The top navigation bar includes tabs for 'Summary', 'Inbound Rules', 'Outbound Rules', 'Subnet Associations' (which is highlighted with a red box), and 'Tags'. Below the tabs, there's an 'Edit' button. The main content area displays two subnet associations:

Subnet	CIDR
subnet-bdebe5ca (10.0.0.0/24)   Public subnet	10.0.0.0/24
subnet-1cf3e279 (10.0.1.0/24)   Private subnet	10.0.1.0/24

You can click on edit to modify the inbound and outbound rules.  
Once clicked on edit, Specify a rule number multiple of 100.  
Then specify Type, Protocol, Port range, Source, and Select either ALLOW or DENY.

The screenshot shows the 'Inbound Rules' tab of the AWS CloudFormation NACL configuration. It includes a note: 'Allows inbound traffic. Because network ACLs are stateless, you must create inbound and outbound rules.' Below the note are 'Cancel' and 'Save' buttons. The main table lists two rules:

Rule #	Type	Protocol	Port Range	Source	Allow / Deny	Remove
100	All Traffic	All	All	0.0.0.0/0	ALLOW	X
200	Custom TCP Rule	TCP (6)	80	0.0.0.0/0	DENY	X

An 'Add another' button is located at the bottom left of the table.

The same way we can do for outbound rules as well.

# FLOW LOGS

## IAM Roles for Flow Logs:

The IAM role that's associated with your flow log must have sufficient permissions to publish flow logs to the specified log group in CloudWatch Logs. The IAM policy that's attached to your IAM role must include at least the following permissions:

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Action": [  
        "logs:CreateLogGroup",  
        "logs:CreateLogStream",  
        "logs:PutLogEvents",  
        "logs:DescribeLogGroups",  
        "logs:DescribeLogStreams"  
      ],  
      "Effect": "Allow",  
      "Resource": "*"  
    }  
  ]  
}
```

You must also ensure that your role has a trust relationship that allows the flow logs service to assume the role (in the IAM console, choose your role, and then choose Edit Trust Relationship to view the trust relationship):

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Sid": "",  
      "Effect": "Allow",  
      "Principal": {  
        "Service": "vpc-flow-logs.amazonaws.com"  
      },  
      "Action": "sts:AssumeRole"  
    }  
  ]  
}
```

Alternatively, you can follow the procedures below to create a new role for use with flow logs.

on the aws console page, select Identity & Access Management under Security & Identity.

Amazon Web Services

Compute

- EC2 Virtual Servers in the Cloud
- EC2 Container Service Run and Manage Docker Containers
- Elastic Beanstalk Run and Manage Web Apps
- Lambda Run Code in Response to Events

Storage & Content Delivery

- S3 Scalable Storage in the Cloud
- CloudFront Global Content Delivery Network
- Elastic File System PREVIEW Fully Managed File System for EC2
- Glacier Archive Storage in the Cloud
- Import/Export Snowball Large Scale Data Transport
- Storage Gateway Hybrid Storage Integration

Database

- RDS Managed Relational Database Service
- DynamoDB

Developer Tools

- CodeCommit Store Code in Private Git Repositories
- CodeDeploy Automate Code Deployments
- CodePipeline Release Software using Continuous Delivery

Internet of Things

- AWS IoT Connect Devices to the Cloud

Game Development

- GameLift Deploy and Scale Session-based Multiplayer Games

Management Tools

- CloudWatch Monitor Resources and Applications
- CloudFormation Create and Manage Resources with Templates
- CloudTrail Track User Activity and API Usage
- Config Track Resource Inventory and Changes
- OpsWorks Automate Operations with Chef
- Service Catalog Create and Use Standardized Products
- Trusted Advisor Optimize Performance and Security

Mobile Services

- Mobile Hub Build, Test, and Monitor Mobile Apps
- Cognito User Identity and App Data Synchronization
- Device Farm Test Android, FireOS, and iOS Apps on Real Devices in the Cloud
- Mobile Analytics Collect, View and Export App Analytics
- SNS Push Notification Service

Application Services

- API Gateway Build, Deploy and Manage APIs
- AppStream Low Latency Application Streaming
- CloudSearch Managed Search Service
- Elastic Transcoder

Security & Identity

- Identity & Access Management Manage User Access and Encryption Keys
- Directory Service Host and Manage Active Directory

In the left navigation pane, choose Roles, and then choose Create New Role

Dashboard

Search IAM

Details

Groups

Users

Roles

Policies

Identity Providers

Account Settings

Credential Report

Create New Role

Role Actions

Filter

Role Name	Creation Time
aws-elasticbeanstalk-ec2-role	2016-04-13 23:51 UTC+0530
aws-elasticbeanstalk-service-role	2016-04-13 23:51 UTC+0530

Enter a name for your role and then click Next.

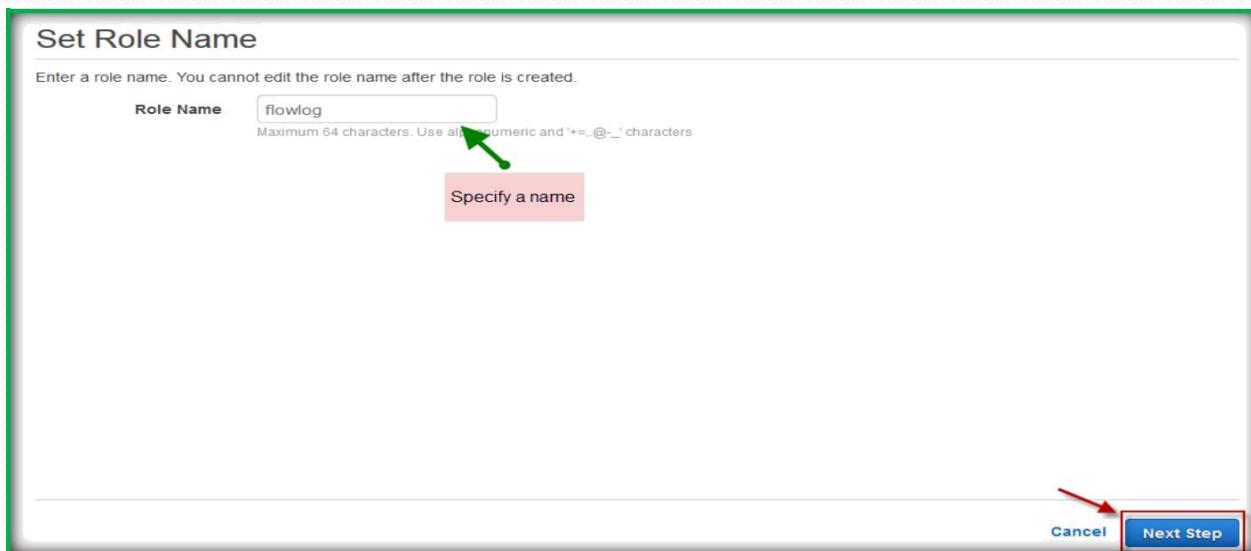
**Set Role Name**

Enter a role name. You cannot edit the role name after the role is created.

**Role Name** flowlog  
Maximum 64 characters. Use alphanumeric and '+, -, @, \_' characters

**Specify a name**

**Cancel** **Next Step**



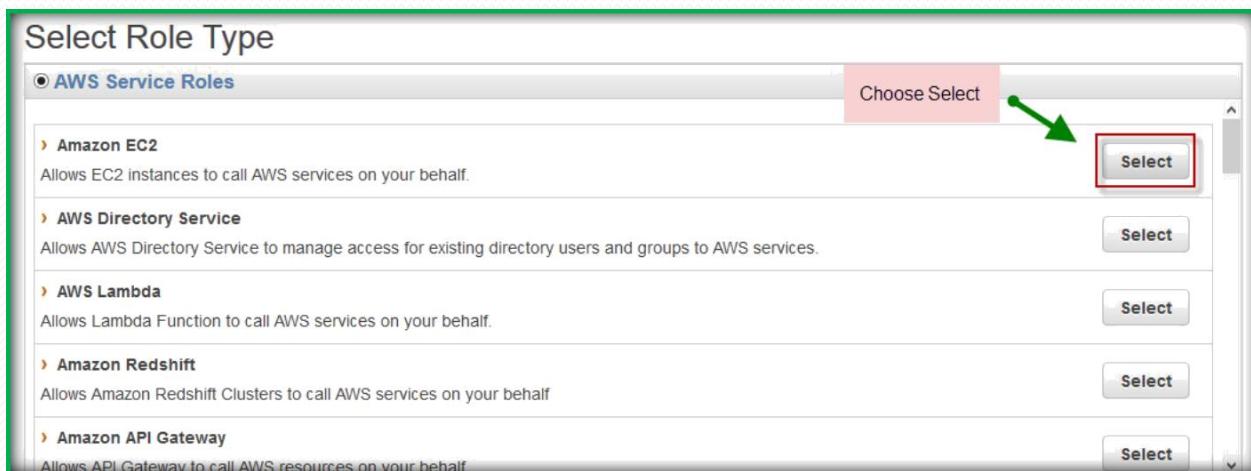
On the Select Role Type page, next to Amazon EC2, choose Select.

**Select Role Type**

**AWS Service Roles**

**Choose Select** **Select**

<b>Amazon EC2</b> Allows EC2 instances to call AWS services on your behalf.	<b>Select</b>
<b>AWS Directory Service</b> Allows AWS Directory Service to manage access for existing directory users and groups to AWS services.	<b>Select</b>
<b>AWS Lambda</b> Allows Lambda Function to call AWS services on your behalf.	<b>Select</b>
<b>Amazon Redshift</b> Allows Amazon Redshift Clusters to call AWS services on your behalf	<b>Select</b>
<b>Amazon API Gateway</b> Allows API Gateway to call AWS resources on your behalf	<b>Select</b>



On the Attach Policy page, choose Next Step.

The screenshot shows the 'Attach Policy' page. At the top, it says 'Select one or more policies to attach. Each role can have up to 10 policies attached.' Below is a table with columns: Policy Name, Attached Entities, Creation Time, and Edited Time. A yellow callout box points to the 'Choose Next Step' button at the bottom right of the table area. The 'Next Step' button is highlighted with a red box and has a blue arrow pointing to it from the right.

	Policy Name	Attached Entities	Creation Time	Edited Time
<input type="checkbox"/>	AWSElasticBeanstalkEnhance...	1	2016-02-09 04:47 UTC+0530	2016-02-09 04:47 UTC+0530
<input type="checkbox"/>	AWSElasticBeanstalkMulticont...	1	2016-02-09 04:45 UTC+0530	2016-02-09 04:45 UTC+0530
<input type="checkbox"/>	AWSElasticBeanstalkWebTier	1	2016-02-09 04:38 UTC+0530	2016-03-08 05:05 UTC+0530
<input type="checkbox"/>	AWSElasticBeanstalkWorkerTier	1	2016-02-09 04:42 UTC+0530	2016-03-08 05:08 UTC+0530
<input type="checkbox"/>	AdministratorAccess	0	2015-02-07 00:09 UTC+0530	2015-02-07 00:09 UTC+0530
<input type="checkbox"/>	AmazonAPIGatewayAdministra...	0	2015-07-09 23:04 UTC+0530	2015-07-09 23:04 UTC+0530
<input type="checkbox"/>	AmazonAPIGatewayInvokeFull...	0	2015-07-09 23:06 UTC+0530	2015-07-09 23:06 UTC+0530
<input type="checkbox"/>	AmazonAPIGatewayPushToClo...	0	2015-11-12 05:11 UTC+0530	2015-11-12 05:11 UTC+0530
<input type="checkbox"/>	AmazonAppStreamFullAccess	0	2015-02-07 00:10 UTC	2015-02-07 00:10 UTC+0530

Showing 196 results

Filter: Policy Type ▾ Filter

Choose Next Step

Cancel Previous Next Step

On the Review page, take note of the ARN for your role. You will need this ARN when you create your flow log. When you are ready, choose **Create Role**.

The screenshot shows the 'Review' page. It displays role information: Role Name (flowlog), Role ARN (arn:aws:iam::168600309204:role/flowlog), Trusted Entities (The identity provider(s) ec2.amazonaws.com), Policies (Change Policies), and a 'Create Role' button. A blue cloud-shaped callout points to the 'Create Role' button. The 'Create Role' button is highlighted with a green box and has a green arrow pointing to it from the right.

Review

Review the following role information. To edit the role, click an edit link, or click **Create Role** to finish.

Role Name: flowlog

Role ARN: arn:aws:iam::168600309204:role/flowlog

Trusted Entities: The identity provider(s) ec2.amazonaws.com

Policies: Change Policies

Create Role

Choose Create Role

Cancel Previous Create Role

Once done, click on your newly created role name, not on the select role button but on the role name itself.

A screenshot of the AWS IAM Roles list. The table has columns for Role Name and Creation Time. A red circle highlights the checkbox next to the 'flowlog' role. A red arrow points from a pink box labeled 'Click on flowlog' to the role name 'flowlog'. The 'flowlog' row is highlighted with a pink background.

Filter		
<input type="checkbox"/>	Role Name	Creation Time
<input type="checkbox"/>	aws-elasticbeanstalk-ec2-role	2016-04-13 23:51 UTC+0530
<input type="checkbox"/>	aws-elasticbeanstalk-service-role	2016-04-13 23:51 UTC+0530
<input checked="" type="checkbox"/> <span style="border: 1px solid red; padding: 2px;">flowlog</span>	flowlog	2016-04-15 22:19 UTC+0530

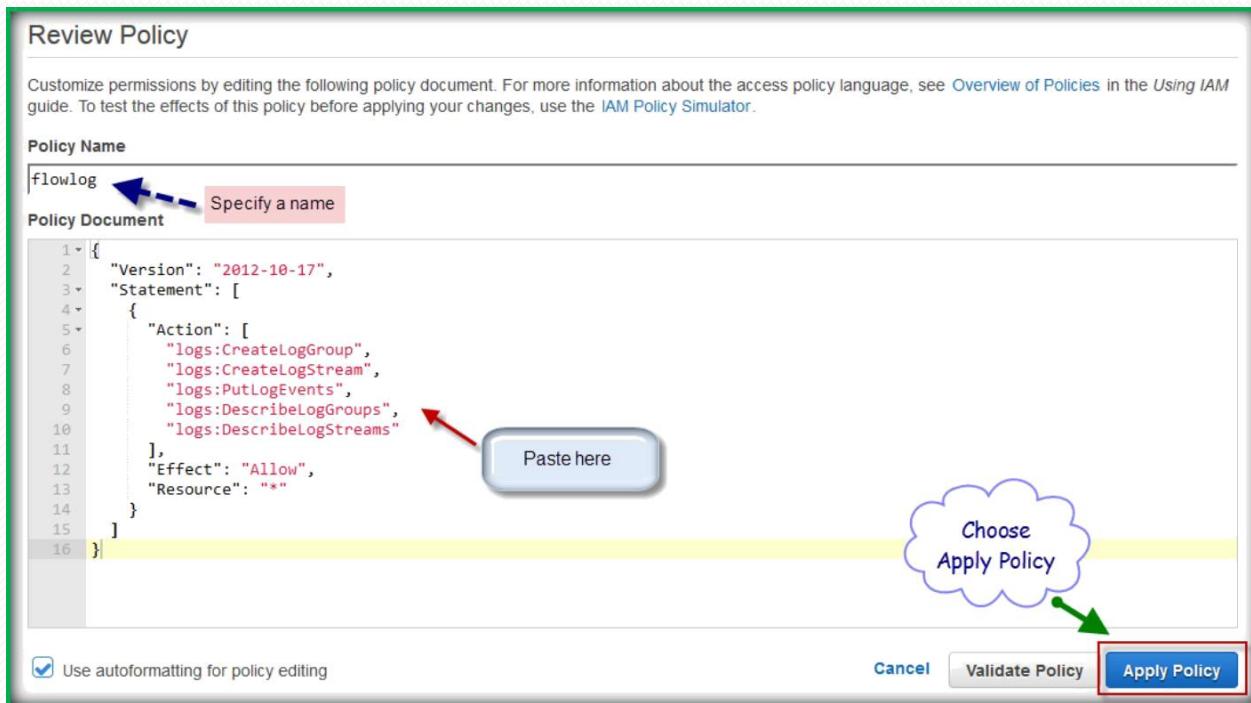
Under Permissions, expand the Inline Policies section, and then choose click here.

A screenshot of the AWS IAM Role Permissions page. It shows two sections: Managed Policies and Inline Policies. Under Managed Policies, there is a blue 'Attach Policy' button. Under Inline Policies, there is a message: 'There are no inline policies to show. To create one, click here.' A red box highlights the word 'click here'. A green arrow points from a pink box labeled 'select click here' to the 'click here' link. A red arrow points from a pink box labeled 'Click here first' to a small 'Click here' button with an upward arrow icon.

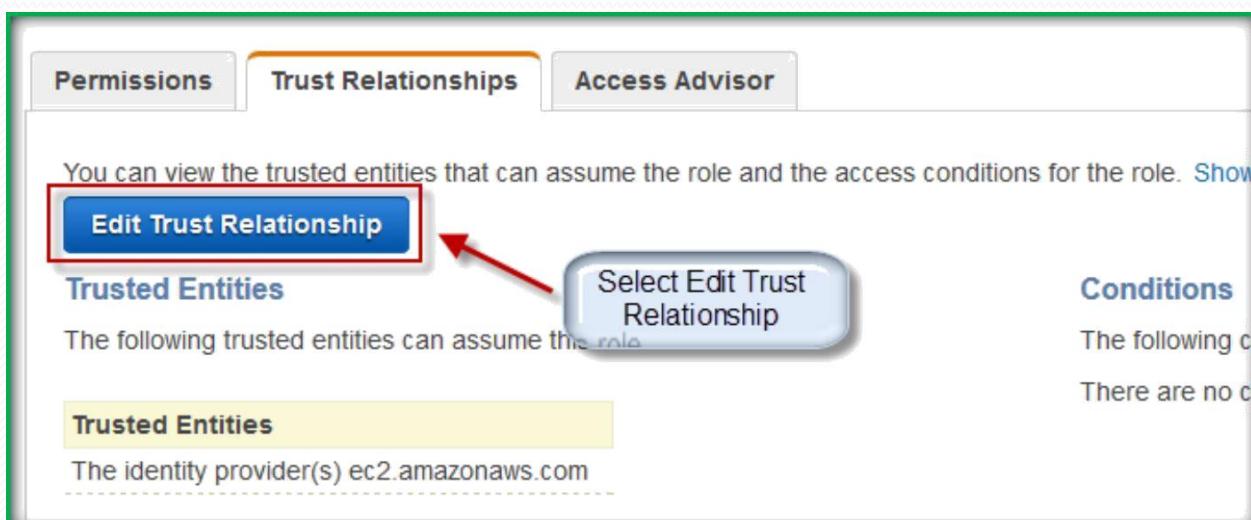
Choose Custom Policy, and then choose Select.

A screenshot of the Set Permissions page. At the top, there are two radio buttons: 'Policy Generator' and 'Custom Policy'. The 'Custom Policy' button is highlighted with a red box. Below it, a pink box contains the text 'Select a policy template, generate a policy, or create a custom policy. A policy is a document that formally states one or more permissions. You can edit the policy on the following screen, or at a later time using the user, group, or role detail pages.' A green arrow points from a pink box labeled 'Select Custom Policy' to the 'Custom Policy' radio button. Another green arrow points from a pink box labeled 'Select' to the 'Choose Select' button.

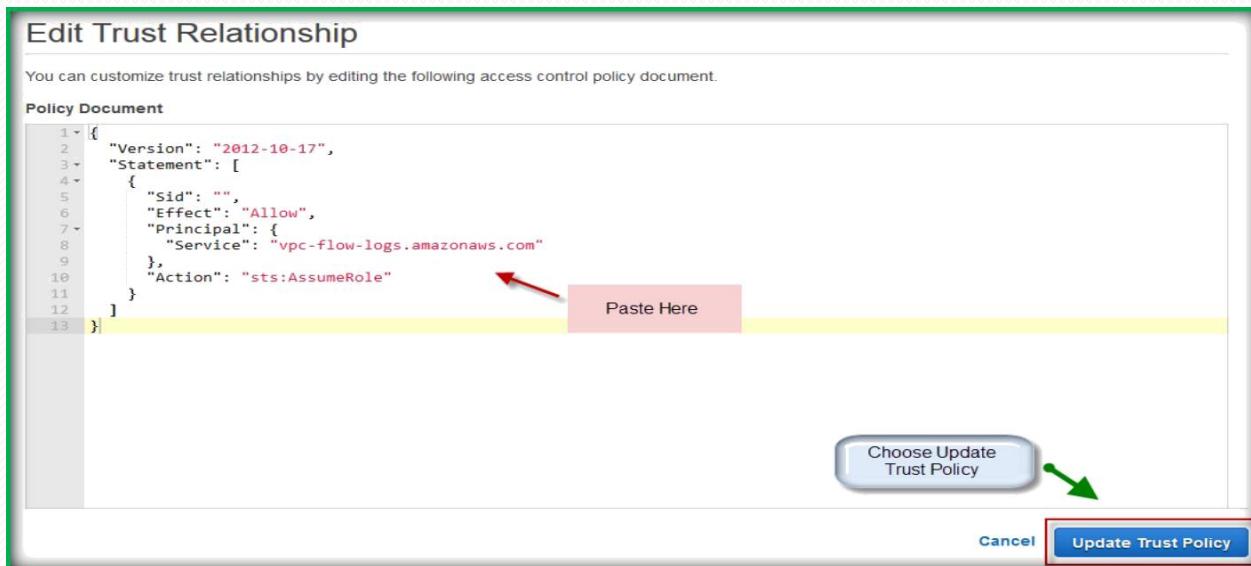
In the section IAM Roles for Flow Logs above, copy the first policy and paste it in the Policy Document window. Enter a name for your policy in the Policy Name field, and then choose Apply Policy.



choose Edit Trust Relationship under Trust Relationships.

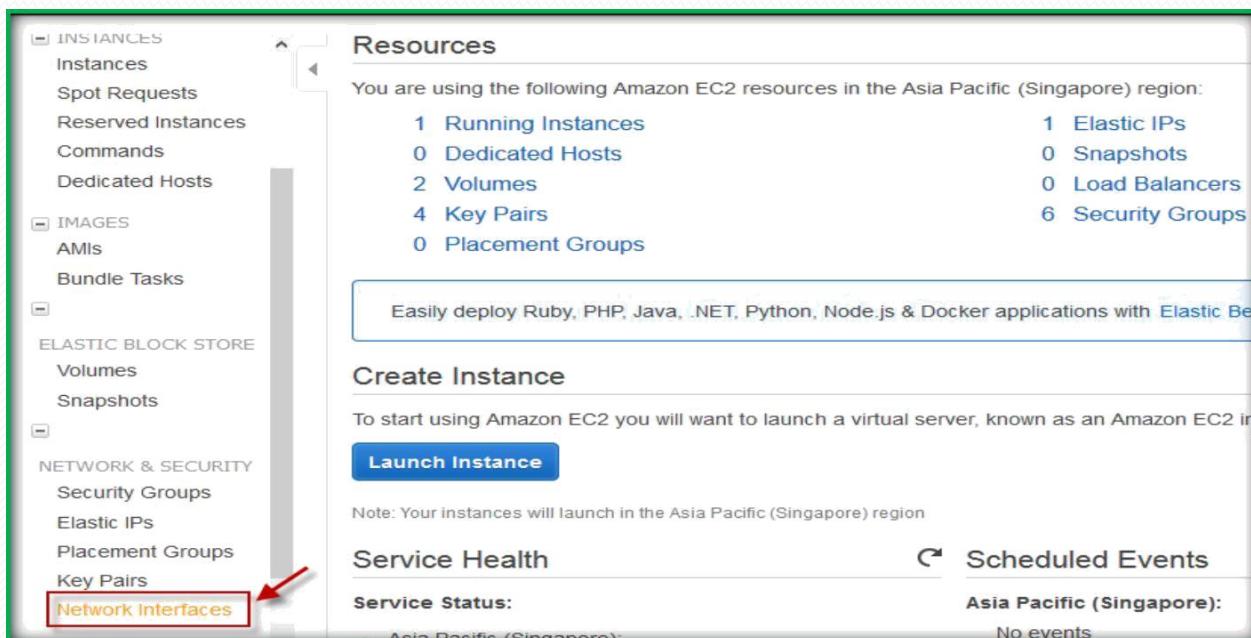


In the section IAM Roles for Flow Logs above, copy the second policy (the trust relationship). Delete the existing policy and paste in the new one. When you are done, choose Update Trust Policy.

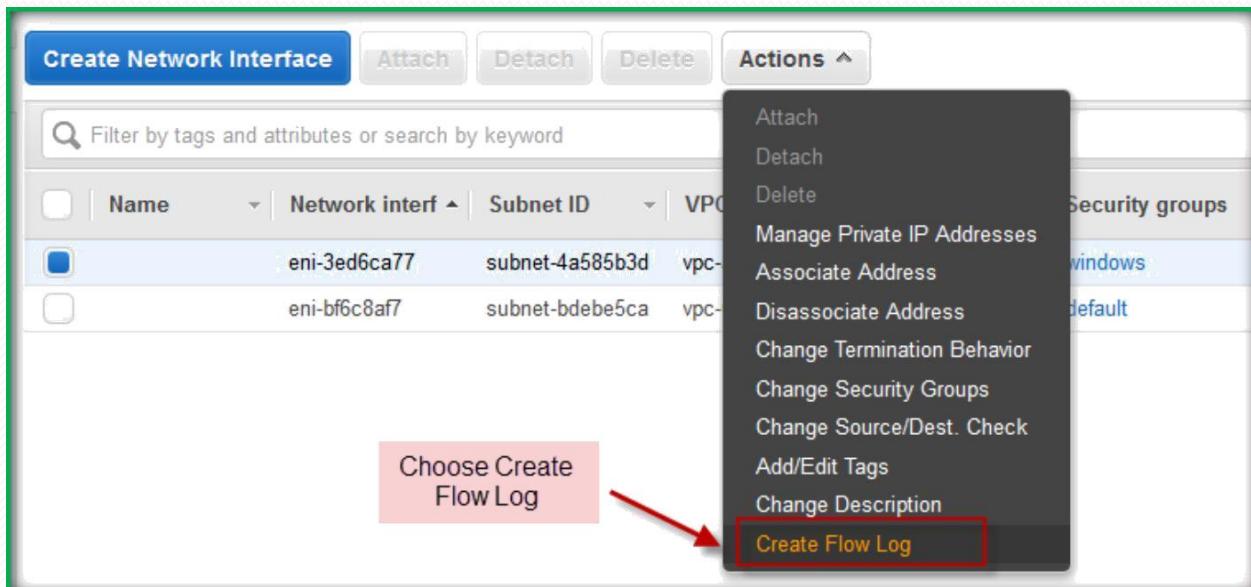


## CREATE FLOW LOG FOR EC2 INSTANCE

Once you logged in, choose Network Interfaces under NETWORK & SECURITY from EC2 left navigation pane.

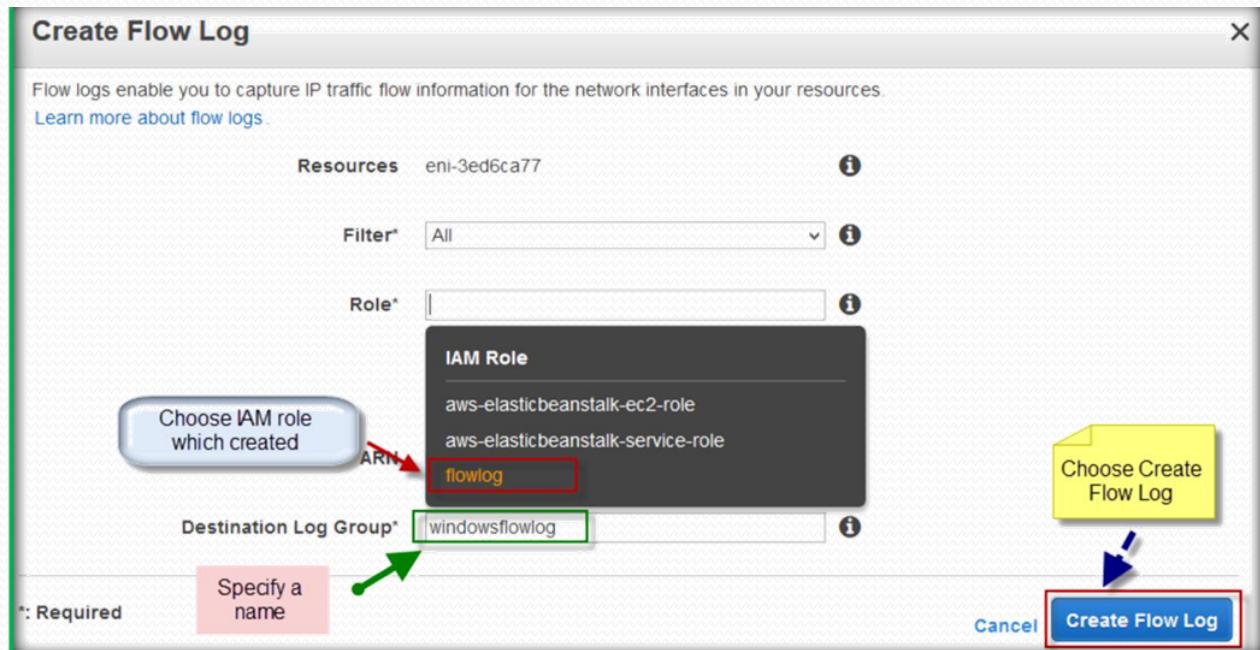


On the network interfaces page, select your instance interface, then under Actions tab select Create Flow Log.



In the dialog box, complete following information. When you are done, choose Create Flow Log.

- **Filter:** Select whether the flow log should capture rejected traffic, accepted traffic, or all traffic.
- **Role:** Specify the name of an IAM role that has permission to publish logs to CloudWatch Logs.
- **Destination Log Group:** Enter the name of a log group in CloudWatch Logs to which the flow logs will be published. You can use an existing log group, or you can enter a name for a new log group, which we'll create for you.

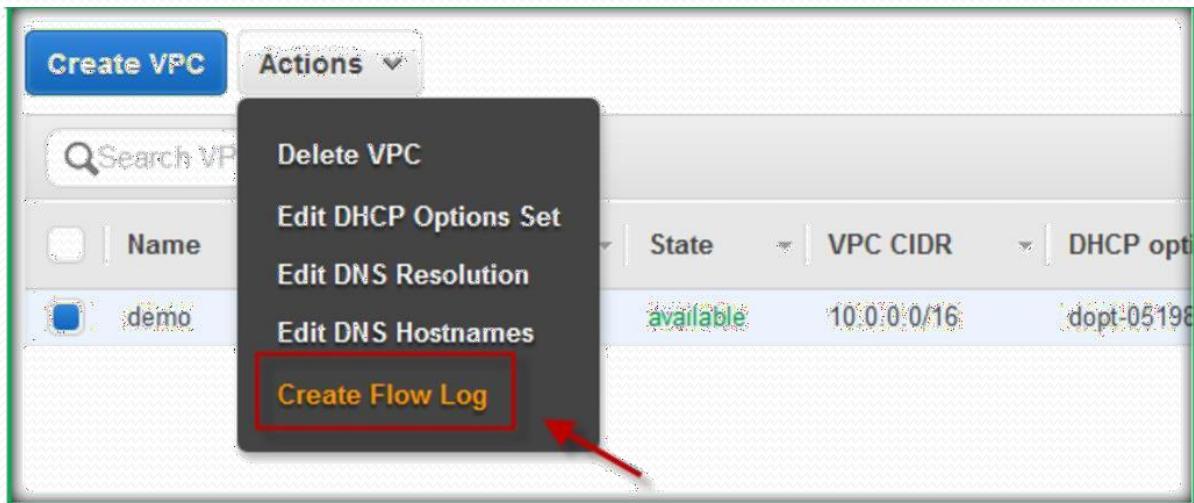


## CREATE FLOW LOG FOR A VPC OR A SUBNET

Once you are on VPC page, choose your VPCs or choose subnets.

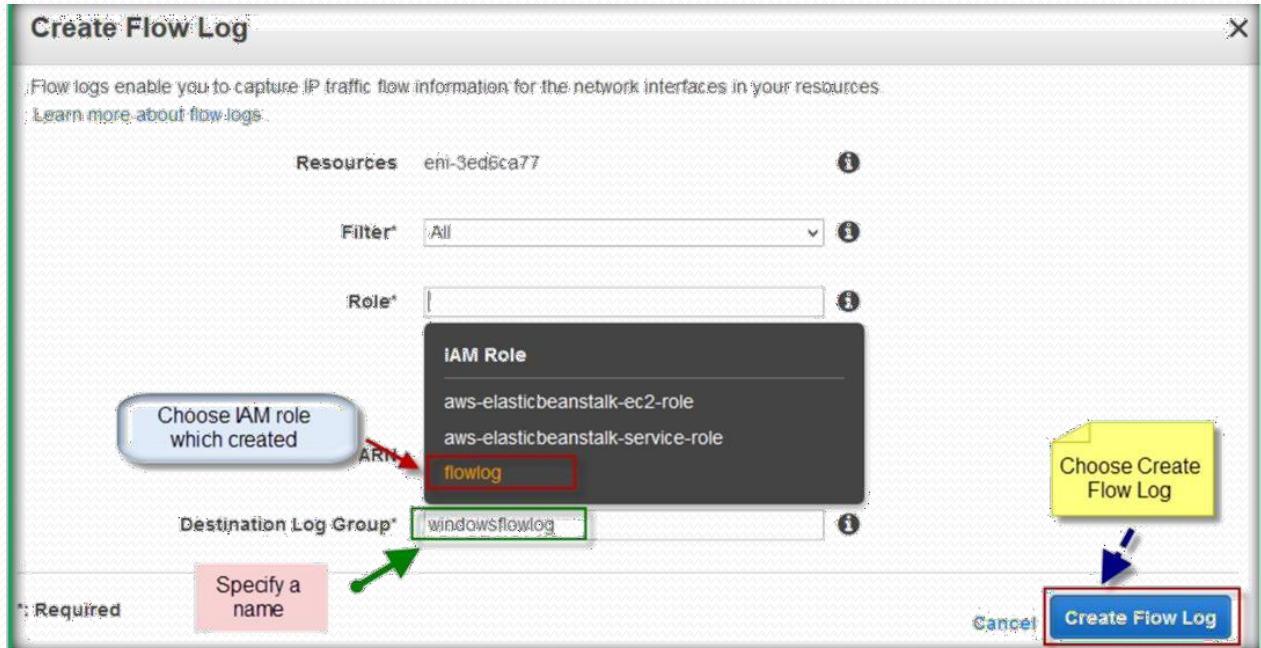
Category	Count
VPCs	2
Internet Gateways	2
Subnets	4
Route Tables	3
Network ACLs	2
Elastic IP	1
VPC Peering Connections	0

Select your VPC or subnet and click on Actions then select Create Flow Log



In the dialog box, complete following information. When you are done, choose **Create Flow Log**:

- **Filter:** Select whether the flow log should capture rejected traffic, accepted traffic, or all traffic.
- **Role:** Specify the name of an IAM role that has permission to publish logs to CloudWatch Logs.
- **Destination Log Group:** Enter the name of a log group in CloudWatch Logs to which the flow logs will be published. You can use an existing log group, or you can enter a name for a new log group, which we'll create for you.



## VIEWING FLOW LOGS

Go to Cloud Watch page from AWS console home.

Once you are in cloudwatch home page, select Logs from the left navigation pane.

Choose the Log Group which we created for flow log.

The screenshot shows the 'Create Metric Filter' interface. At the top, there are buttons for 'Create Metric Filter' and 'Actions'. Below that is a search bar labeled 'Filter: Log Group Name Prefix'. A red box highlights the 'Log Groups' section, which contains a checkbox next to 'flowlogdemo'. A red arrow points from a callout box labeled 'Choose log group' to this checkbox. To the right of the log groups are sections for 'Expire Events After' (set to 'Never Expire') and 'Metric Filters' (0 filters). On the far right, it says 'Subscription' with 'None'.

Choose specific resource which you want to see the flow log for.

The screenshot shows the 'Search Events' interface. At the top, there are buttons for 'Search Events', 'Create Log Stream', and 'Delete Log Stream'. Below that is a search bar labeled 'Filter: Log Stream Name Prefix'. A red box highlights the 'Log Streams' section, which contains a checkbox next to 'eni-3ed6ca77-all'. A red arrow points from a callout box labeled 'Choose specific resource flow log' to this checkbox. To the right, it shows 'Last Event Time' as '2016-04-15 23:59 UTC+5:30'.

Resource flow log will be displayed like below.

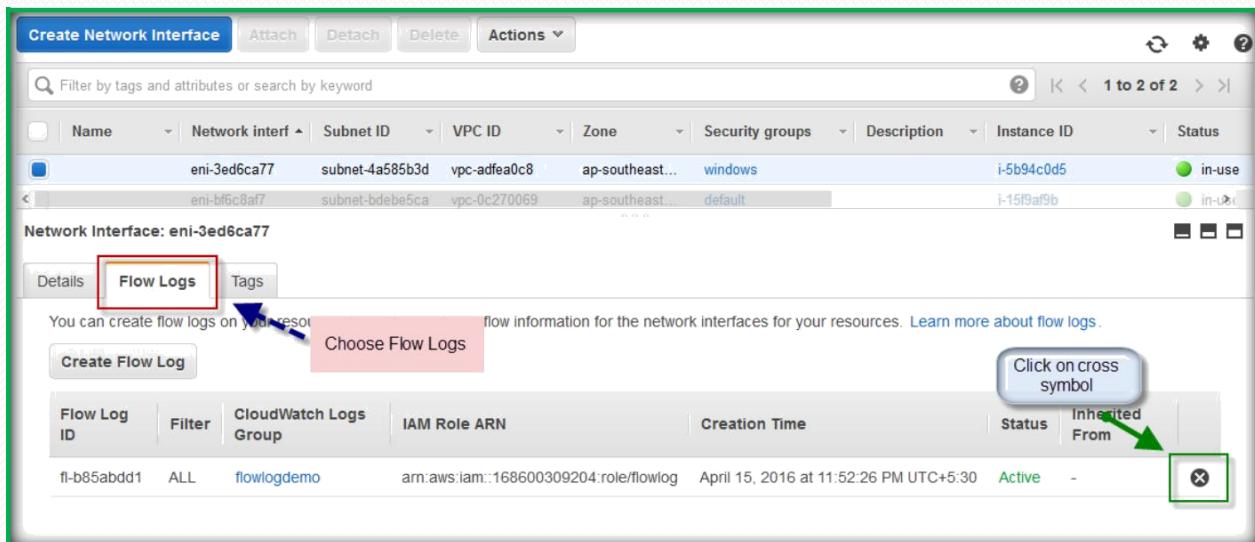
The screenshot shows the 'Event Data' section of the AWS CloudWatch Events interface. At the top, there is a filter bar 'Filter: Search for events' and a date/time selector 'Date/Time: 2016/04/15 18:26:37 UTC (GMT)'. The main area displays a list of log entries. Each entry starts with a red triangle icon followed by a timestamp and a log ID. The log entries show network traffic details such as source and destination IP addresses, port numbers, and various metrics. The last few entries are truncated with 'ACCEPT OK'.

Timestamp	Log ID	Source IP	Destination IP	Port	Metric 1	Metric 2	Metric 3	Metric 4	Metric 5	Metric 6	Metric 7	Metric 8	Metric 9	Metric 10	Metric 11	Metric 12	Metric 13	Metric 14	Metric 15	Metric 16	Metric 17	Metric 18	Metric 19	Metric 20	Metric 21	Metric 22	Metric 23	Metric 24	Metric 25	Metric 26	Metric 27	Metric 28	Metric 29	Metric 30	Metric 31	Metric 32	Metric 33	Metric 34	Metric 35	Metric 36	Metric 37	Metric 38	Metric 39	Metric 40	Metric 41	Metric 42	Metric 43	Metric 44	Metric 45	Metric 46	Metric 47	Metric 48	Metric 49	Metric 50	Metric 51	Metric 52	Metric 53	Metric 54	Metric 55	Metric 56	Metric 57	Metric 58	Metric 59	Metric 60	Metric 61	Metric 62	Metric 63	Metric 64	Metric 65	Metric 66	Metric 67	Metric 68	Metric 69	Metric 70	Metric 71	Metric 72	Metric 73	Metric 74	Metric 75	Metric 76	Metric 77	Metric 78	Metric 79	Metric 80	Metric 81	Metric 82	Metric 83	Metric 84	Metric 85	Metric 86	Metric 87	Metric 88	Metric 89	Metric 90	Metric 91	Metric 92	Metric 93	Metric 94	Metric 95	Metric 96	Metric 97	Metric 98	Metric 99	Metric 100	Metric 101	Metric 102	Metric 103	Metric 104	Metric 105	Metric 106	Metric 107	Metric 108	Metric 109	Metric 110	Metric 111	Metric 112	Metric 113	Metric 114	Metric 115	Metric 116	Metric 117	Metric 118	Metric 119	Metric 120	Metric 121	Metric 122	Metric 123	Metric 124	Metric 125	Metric 126	Metric 127	Metric 128	Metric 129	Metric 130	Metric 131	Metric 132	Metric 133	Metric 134	Metric 135	Metric 136	Metric 137	Metric 138	Metric 139	Metric 140	Metric 141	Metric 142	Metric 143	Metric 144	Metric 145	Metric 146	Metric 147	Metric 148	Metric 149	Metric 150	Metric 151	Metric 152	Metric 153	Metric 154	Metric 155	Metric 156	Metric 157	Metric 158	Metric 159	Metric 160	Metric 161	Metric 162	Metric 163	Metric 164	Metric 165	Metric 166	Metric 167	Metric 168	Metric 169	Metric 170	Metric 171	Metric 172	Metric 173	Metric 174	Metric 175	Metric 176	Metric 177	Metric 178	Metric 179	Metric 180	Metric 181	Metric 182	Metric 183	Metric 184	Metric 185	Metric 186	Metric 187	Metric 188	Metric 189	Metric 190	Metric 191	Metric 192	Metric 193	Metric 194	Metric 195	Metric 196	Metric 197	Metric 198	Metric 199	Metric 200	Metric 201	Metric 202	Metric 203	Metric 204	Metric 205	Metric 206	Metric 207	Metric 208	Metric 209	Metric 210	Metric 211	Metric 212	Metric 213	Metric 214	Metric 215	Metric 216	Metric 217	Metric 218	Metric 219	Metric 220	Metric 221	Metric 222	Metric 223	Metric 224	Metric 225	Metric 226	Metric 227	Metric 228	Metric 229	Metric 230	Metric 231	Metric 232	Metric 233	Metric 234	Metric 235	Metric 236	Metric 237	Metric 238	Metric 239	Metric 240	Metric 241	Metric 242	Metric 243	Metric 244	Metric 245	Metric 246	Metric 247	Metric 248	Metric 249	Metric 250	Metric 251	Metric 252	Metric 253	Metric 254	Metric 255	Metric 256	Metric 257	Metric 258	Metric 259	Metric 260	Metric 261	Metric 262	Metric 263	Metric 264	Metric 265	Metric 266	Metric 267	Metric 268	Metric 269	Metric 270	Metric 271	Metric 272	Metric 273	Metric 274	Metric 275	Metric 276	Metric 277	Metric 278	Metric 279	Metric 280	Metric 281	Metric 282	Metric 283	Metric 284	Metric 285	Metric 286	Metric 287	Metric 288	Metric 289	Metric 290	Metric 291	Metric 292	Metric 293	Metric 294	Metric 295	Metric 296	Metric 297	Metric 298	Metric 299	Metric 300	Metric 301	Metric 302	Metric 303	Metric 304	Metric 305	Metric 306	Metric 307	Metric 308	Metric 309	Metric 310	Metric 311	Metric 312	Metric 313	Metric 314	Metric 315	Metric 316	Metric 317	Metric 318	Metric 319	Metric 320	Metric 321	Metric 322	Metric 323	Metric 324	Metric 325	Metric 326	Metric 327	Metric 328	Metric 329	Metric 330	Metric 331	Metric 332	Metric 333	Metric 334	Metric 335	Metric 336	Metric 337	Metric 338	Metric 339	Metric 340	Metric 341	Metric 342	Metric 343	Metric 344	Metric 345	Metric 346	Metric 347	Metric 348	Metric 349	Metric 350	Metric 351	Metric 352	Metric 353	Metric 354	Metric 355	Metric 356	Metric 357	Metric 358	Metric 359	Metric 360	Metric 361	Metric 362	Metric 363	Metric 364	Metric 365	Metric 366	Metric 367	Metric 368	Metric 369	Metric 370	Metric 371	Metric 372	Metric 373	Metric 374	Metric 375	Metric 376	Metric 377	Metric 378	Metric 379	Metric 380	Metric 381	Metric 382	Metric 383	Metric 384	Metric 385	Metric 386	Metric 387	Metric 388	Metric 389	Metric 390	Metric 391	Metric 392	Metric 393	Metric 394	Metric 395	Metric 396	Metric 397	Metric 398	Metric 399	Metric 400	Metric 401	Metric 402	Metric 403	Metric 404	Metric 405	Metric 406	Metric 407	Metric 408	Metric 409	Metric 410	Metric 411	Metric 412	Metric 413	Metric 414	Metric 415	Metric 416	Metric 417	Metric 418	Metric 419	Metric 420	Metric 421	Metric 422	Metric 423	Metric 424	Metric 425	Metric 426	Metric 427	Metric 428	Metric 429	Metric 430	Metric 431	Metric 432	Metric 433	Metric 434	Metric 435	Metric 436	Metric 437	Metric 438	Metric 439	Metric 440	Metric 441	Metric 442	Metric 443	Metric 444	Metric 445	Metric 446	Metric 447	Metric 448	Metric 449	Metric 450	Metric 451	Metric 452	Metric 453	Metric 454	Metric 455	Metric 456	Metric 457	Metric 458	Metric 459	Metric 460	Metric 461	Metric 462	Metric 463	Metric 464	Metric 465	Metric 466	Metric 467	Metric 468	Metric 469	Metric 470	Metric 471	Metric 472	Metric 473	Metric 474	Metric 475	Metric 476	Metric 477	Metric 478	Metric 479	Metric 480	Metric 481	Metric 482	Metric 483	Metric 484	Metric 485	Metric 486	Metric 487	Metric 488	Metric 489	Metric 490	Metric 491	Metric 492	Metric 493	Metric 494	Metric 495	Metric 496	Metric 497	Metric 498	Metric 499	Metric 500	Metric 501	Metric 502	Metric 503	Metric 504	Metric 505	Metric 506	Metric 507	Metric 508	Metric 509	Metric 510	Metric 511	Metric 512	Metric 513	Metric 514	Metric 515	Metric 516	Metric 517	Metric 518	Metric 519	Metric 520	Metric 521	Metric 522	Metric 523	Metric 524	Metric 525	Metric 526	Metric 527	Metric 528	Metric 529	Metric 530	Metric 531	Metric 532	Metric 533	Metric 534	Metric 535	Metric 536	Metric 537	Metric 538	Metric 539	Metric 540	Metric 541	Metric 542	Metric 543	Metric 544	Metric 545	Metric 546	Metric 547	Metric 548	Metric 549	Metric 550	Metric 551	Metric 552	Metric 553	Metric 554	Metric 555	Metric 556	Metric 557	Metric 558	Metric 559	Metric 560	Metric 561	Metric 562	Metric 563	Metric 564	Metric 565	Metric 566	Metric 567	Metric 568	Metric 569	Metric 570	Metric 571	Metric 572	Metric 573	Metric 574	Metric 575	Metric 576	Metric 577	Metric 578	Metric 579	Metric 580	Metric 581	Metric 582	Metric 583	Metric 584	Metric 585	Metric 586	Metric 587	Metric 588	Metric 589	Metric 590	Metric 591	Metric 592	Metric 593	Metric 594	Metric 595	Metric 596	Metric 597	Metric 598	Metric 599	Metric 600	Metric 601	Metric 602	Metric 603	Metric 604	Metric 605	Metric 606	Metric 607	Metric 608	Metric 609	Metric 610	Metric 611	Metric 612	Metric 613	Metric 614	Metric 615	Metric 616	Metric 617	Metric 618	Metric 619	Metric 620	Metric 621	Metric 622	Metric 623	Metric 624	Metric 625	Metric 626	Metric 627	Metric 628	Metric 629	Metric 630	Metric 631	Metric 632	Metric 633	Metric 634	Metric 635	Metric 636	Metric 637	Metric 638	Metric 639	Metric 640	Metric 641	Metric 642	Metric 643	Metric 644	Metric 645	Metric 646	Metric 647	Metric 648	Metric 649	Metric 650	Metric 651	Metric 652	Metric 653	Metric 654	Metric 655	Metric 656	Metric 657	Metric 658	Metric 659	Metric 660	Metric 661	Metric 662	Metric 663	Metric 664	Metric 665	Metric 666	Metric 667	Metric 668	Metric 669	Metric 670	Metric 671	Metric 672	Metric 673	Metric 674	Metric 675	Metric 676	Metric 677	Metric 678	Metric 679	Metric 680	Metric 681	Metric 682	Metric 683	Metric 684	Metric 685	Metric 686	Metric 687	Metric 688	Metric 689	Metric 690	Metric 691	Metric 692	Metric 693	Metric 694	Metric 695	Metric 696	Metric 697	Metric 698	Metric 699	Metric 700	Metric 701	Metric 702	Metric 703	Metric 704	Metric 705	Metric 706	Metric 707	Metric 708	Metric 709	Metric 710	Metric 711	Metric 712	Metric 713	Metric 714	Metric 715	Metric 716	Metric 717	Metric 718	Metric 719	Metric 720	Metric 721	Metric 722	Metric 723	Metric 724	Metric 725	Metric 726	Metric 727	Metric 728	Metric 729	Metric 730	Metric 731	Metric 732	Metric 733	Metric 734	Metric 735	Metric 736	Metric 737	Metric 738	Metric 739	Metric 740	Metric 741	Metric 742	Metric 743	Metric 744	Metric 745	Metric 746	Metric 747	Metric 748	Metric 749	Metric 750	Metric 751	Metric 752	Metric 753	Metric 754	Metric 755	Metric 756	Metric 757	Metric 758	Metric 759	Metric 760	Metric 761	Metric 762	Metric 763	Metric 764	Metric 765	Metric 766	Metric 767	Metric 768	Metric 769	Metric 770	Metric 771	Metric 772	Metric 773	Metric 774	Metric 775	Metric 776	Metric 777	Metric 778	Metric 779	Metric 780	Metric 781	Metric 782	Metric 783	Metric 784	Metric 785	Metric 786	Metric 787	Metric 788	Metric 789	Metric 790	Metric 791	Metric 792	Metric 793	Metric 794	Metric 795	Metric 796	Metric 797	Metric 798	Metric 799	Metric 800	Metric 801	Metric 802	Metric 803	Metric 804	Metric 805	Metric 806	Metric 807	Metric 808	Metric 809	Metric 810	Metric 811	Metric 812	Metric 813	Metric 814	Metric 815	Metric 816	Metric 817	Metric 818	Metric 819	Metric 820	Metric 821	Metric 822	Metric 823	Metric 824	Metric 825	Metric 826	Metric 827	Metric 828	Metric 829	Metric 830	Metric 831	Metric 832	Metric 833	Metric 834	Metric 835	Metric 836	Metric 837	Metric 838	Metric 839	Metric 840	Metric 841	Metric 842	Metric 843	Metric 844	Metric 845	Metric 846	Metric 847	Metric 848	Metric 849	Metric 850	Metric 851	Metric 852	Metric 853	Metric 854	Metric 855	Metric 856	Metric 857	Metric 858	Metric 859	Metric 860	Metric 861	Metric 862	Metric 863	Metric 864	Metric 865	Metric 866	Metric 867	Metric 868	Metric 869	Metric 870	Metric 871	Metric 872	Metric 873	Metric 874	Metric 875	Metric 876	Metric 877	Metric 878	Metric 879	Metric 880	Metric 881	Metric 882	Metric 883	Metric 884	Metric 885	Metric 886	Metric 887	Metric 888	Metric 889	Metric 890	Metric 891	Metric 892	Metric 893	Metric 894	Metric 895	Metric 896	Metric 897	Metric 898	Metric 899	Metric 900	Metric 901	Metric 902	Metric 903	Metric 904	Metric 905	Metric 906	Metric 907	Metric 908	Metric 909	Metric 910	Metric 911	Metric 912	Metric 913	Metric 914	Metric 915	Metric 916	Metric 917	Metric 918	Metric 919	Metric 920	Metric 921	Metric 922	Metric 923	Metric 924	Metric 925	Metric 926	Metric 927	Metric 928	Metric 929	Metric 930	Metric 931	Metric 932	Metric 933	Metric 934	Metric 935	Metric 936	Metric 937	Metric 938	Metric 939	Metric 940	Metric 941	Metric 942	Metric 943	Metric 944	Metric 945	Metric 946	Metric 947	Metric 948	Metric 949	Metric 950	Metric 951	Metric 952	Metric 953	Metric 954	Metric 955	Metric 956	Metric 957	Metric 958	Metric 959	Metric 960	Metric 961	Metric 962	Metric 963	Metric 964	Metric 965	Metric 966	Metric 967	Metric 968	Metric 969	Metric 970	Metric 971	Metric 972	Metric 973	Metric 974	Metric 975	Metric 976	Metric 977	Metric 978	Metric 979	Metric 980	Metric 981	Metric 982	Metric 983	Metric 984	Metric 985	Metric 986	Metric 987	Metric 988	Metric 989	Metric 990	Metric 991	Metric 992	Metric 993	Metric 994	Metric 995	Metric 996	Metric 997	Metric 998	Metric 999	Metric 1000
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# DELETE FLOW LOG

In the navigation pane, choose **Network Interfaces**, and then select the network interface.

Choose the **Flow Logs** tab, and then choose the delete button (a cross) for the flow log to delete.



In the confirmation dialog box, choose **Yes, Delete**.

