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# Introduction to Creating AWS VPC Flow Logs

Level: **Fundamental**

Amazon VPC

Identity And Access Management

Amazon CloudWatch Logs

Amazon Web Services



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End Lab

Open Console

Validation

## Lab Credentials

User Name ⓘ

Whiz\_User\_80425.64746171



Password ⓘ

7be415e2-abb0-40c9-b1be-699ffafb8324



Access Key ⓘ

AKIAVRMHICPESL2LNHTW



Secret Key ⓘ

5i8gx3O9XTHAZDgdyGg/meymDLNahSy7ARB+X4RQ






## Lab Resources

No Lab Resources Found

## Support Documents

No Support Documents Found

## Need help?

-  How to use Hands on Lab
-  Troubleshooting Lab
-  FAQs

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Cloud Architect, Cloud Network Engineer, Cloud Administrator



Compute, Networking

# Lab Steps

## Task 1: Sign in to AWS Management Console

1. Click on the **Open Console** button, and you will get redirected to AWS Console in a new browser tab.

2. On the AWS sign-in page,

- Leave the Account ID as default. Never edit/remove the 12 digit Account ID present in the AWS Console. otherwise, you cannot proceed with the lab.
- Now copy your **User Name** and **Password** in the Lab Console to the **IAM Username and Password** in AWS Console and click on the **Sign in** button

3. Once Signed In to the AWS Management Console, Make the default AWS Region as **US East (N. Virginia) us-east-1**.

## Task 2: Create a CloudWatch Log

In this task, you will create a CloudWatch Log Group called "whizvpclogs" using the CloudWatch service. Follow the steps below:

1. Navigate to the **Services** menu at the top and choose **CloudWatch** under **Management and Governance**.
2. Click on **Log Groups** under **Logs** in the left-side panel, click on **Create Log Group**

3. Enter the Log Group Name : **whizvplogs** and click on **Create** button.

## Create log group

### Log group details

Log group name

Retention setting

Never expire ▼

KMS key ARN - optional

### Tags

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

No tags are associated with this log group.

Add new tag

You can add up to 50 more tag(s).

Cancel Create

Log groups (1/1)  
By default, we only load up to 10000 log groups.

Filter log groups or try prefix search

Exact match

< 1 > ⚙

<input checked="" type="checkbox"/>	Log group	Retention	Metric filters	Contributor Insights	Subscription filters
<input checked="" type="checkbox"/>	whizvplogs	Never expire	-	-	-

## Task 3: Create a VPC

1. Navigate to the **Services** menu on the top and choose **VPC** under **Networking and Content Delivery**.
2. Click on **Your VPC's** in the left side panel then click on **Create VPC**.
3. Select **VPC only**.
4. Enter the Name tag: **whizvpc** and enter IPv4 CIDR block: **10.1.0.0/16**. Leave other options as default and click on **Create** button.

VPC > Your VPCs > vpc-046305377cae3b915			
vpc-046305377cae3b915 / whizvpc			Actions ▾
Details Info			
VPC ID vpc-046305377cae3b915	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP options set dopt-f6784d8d	Main route table rtb-063a27b30acbc3955	Main network ACL acl-0188e183e70e2a441
Default VPC No	IPv4 CIDR 10.1.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -

## Task 4: Create VPC Flow Logs

In this task, you will create VPC Flow Logs for your VPC using the AWS Management Console. Follow the steps below:

1. Inside **whizvpc**, scroll down and click on **Flow logs** tab and click on **Create Flow Log** button.
2. Under Flow log settings: Name: **whizflow**
3. Select “Filter” as **Accept** and select “Destination” as **Send to CloudWatch Logs**. Choose the above created CloudWatch Logs “**whizvpclogs**”.
4. Choose the IAM role “**EC2Role\_<RANDOM\_NUMBER>**” and leave the others as default. Click on **Create flow log**.

- Once the flow logs are created, scroll down click on **Flow Logs**.

CIDRs	Flow logs	Tags
Flow logs (1/1) Info		
Filter flow logs		
1		
✓	Name	Flow log ID
✓	whizflow	fl-0baa5769cf524f1d3
	Filter	Destination type
	ACCEPT	cloud-watch-logs
		Destination name
		whizvpclogs

5. Now you have successfully learned how to create VPC Flow Logs.



## Do You Know?


AWS VPC Flow Logs can be used not only for network monitoring and security analysis but also for troubleshooting and performance analysis of your Amazon Virtual Private Cloud (VPC) environment.

## Task 5: Validation Test

1. Once the lab steps are completed, please click on the Validate button on the left side panel.
2. This will validate the resources in the AWS account and displays whether you have completed this lab successfully or not.
3. Sample output :

### Check your Validation

If any checks fail , you can use the remaining time in the Lab to work on making the checks pass . Click Validate My Lab again to rerun the checks at any time.

Validate My Lab 

#### Create CloudWatch Log Group

Check whether CloudWatch Log Group is created or not.

#### Create an Amazon Custom VPC

Check whether a Custom VPC is created or not

#### Create a VPC Flow Log with EC2 Role

Check whether VPC Flow Log is created with Destination as cloudwatch-logs and Role attached or not.

## Completion and Conclusion

1. You have successfully created the CloudWatch Logs.
2. You have successfully created the VPC.
3. You have successfully created the VPC Flow Logs.

## End Lab

1. Sign out of AWS Account.
2. You have successfully completed the lab.
3. Once you have completed the steps click on **End Lab** from your whizlabs dashboard.



