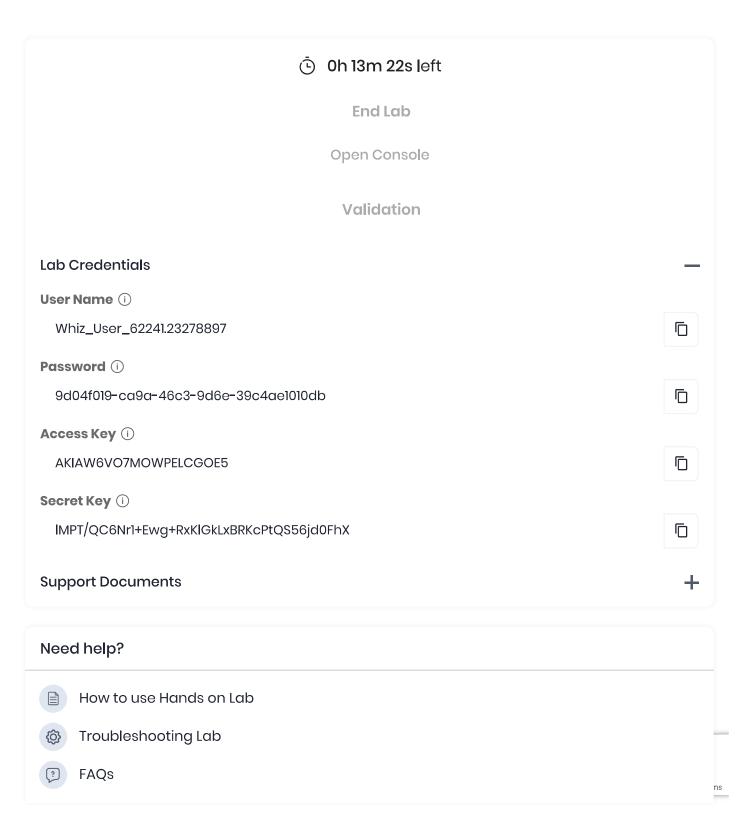
Home / AWS / Guided Lab / Creating a CloudWatch Dashboard for EC2 Instance

Creating a CloudWatch Dashboard for EC2 Instance

Level: Fundamental

Amazon EC2 Amazon CloudWatch Amazon Web Services



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Lab Overview

Lab Steps

- (රී) Cloud Administrator
- డ్ర్లో Compute, Management & Governance

Lab Steps

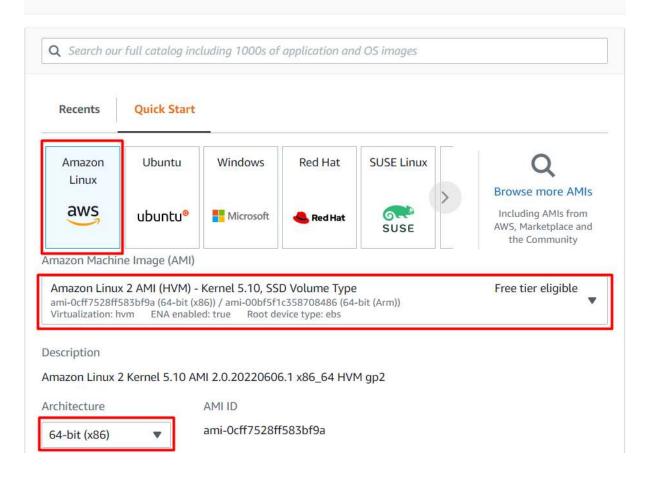
Task 1: Sign in to AWS Management Console

- 1. Click on the 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.

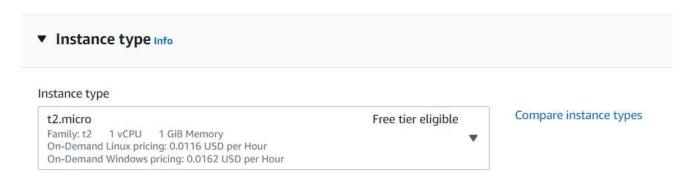
Task 2: Launch an EC2 instance

- 1. Make sure you are in the N.Virginia Region.
- 2. Navigate to EC2 by clicking on the the Compute section.
- 3. Navigate to **Instances** from the left side menu and click on
- 4. Enter Name as whizlabs.
- 5. Choose an Amazon Machine Image (AMI): Select **Amazon Linux 2 AMI** in the drop-down.
- 6. Choose architecture as 64-bit(x86)
 - ▼ 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



7. Choose an Instance Type: Select t2.micro.



- 8. For Key pair: Select Create a new key pair Button
 - Key pair name: WhizKey
 - Key pair type: RSA
 - Private key file format: .pem
- 9. Select Create key pair Button.

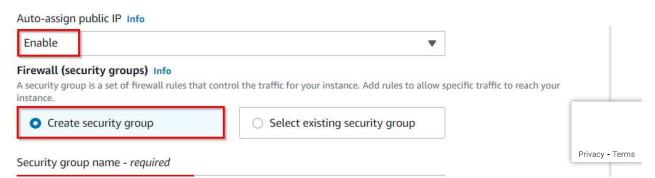


Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more

Key pair name WhizKey The name can include upto 255 ASCII characters. It can't include leading or trailing spaces. Key pair type RSA RSA encrypted private and public key pair ED25519 ED25519 ED25519 encrypted private and public key pair (Not supported for Windows instances) Private key file format .pem For use with OpenSSH .ppk For use with PuTTY

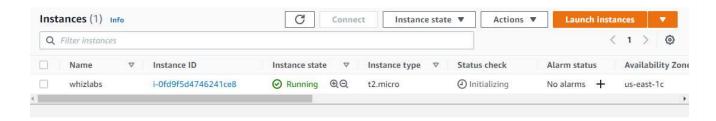
10. In Network Settings Click on Edit Button:

- Auto-assign public IP: Enable
- Select Create new Security group
- Security group name: Enter MyEC2Server_SG
- Description: Enter Security Group to allow traffic to EC2





- Check Allow SSH from and Select Anywhere from dropdown
- To add SSH,
 - Choose Type: SSH
 Source: Select Anywhere
- 8. Leave the rest of the things as default.
- 9. Click on the
- 10. Launch Status: Your instance is now launching. Click on the instance ID and wait for complete initialization of instance (until the status changes to Running).



11. Note the **Public IPv4 Address** and **Instance ID** of the EC2 instance. A sample is shown in the screenshot below.

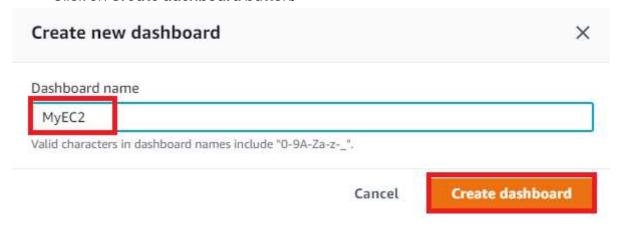


Private IPv4 DNS IPv6 DNS

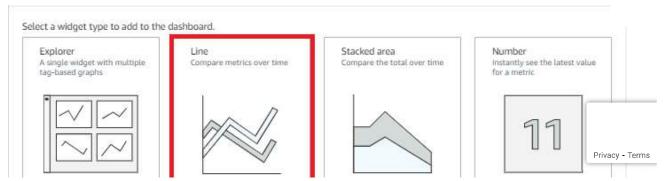
1.amazonaws.com | open address ☑
Instance type

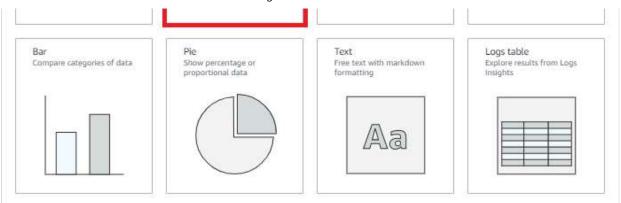
Task 3: Creating a CloudWatch Dashboard

- 1. Wait for 5-10 minutes for CloudWatch to gather metrics from EC2 Instance.
- 2. Navigate to **CloudWatch** by clicking on the the notice of the page, then click on **CloudWatch** in the **Management and Governance section**.
- 3. Click on **Dashboards** on the left panel.
- 4. Click on Create dashboard
- 5. Give a name to your dashboard.
 - Dashboard name: Enter MyEC2
 - Click on Create dashboard button.



5. We have to select a widget type to configure and add to this dashboard. Select **Line**.





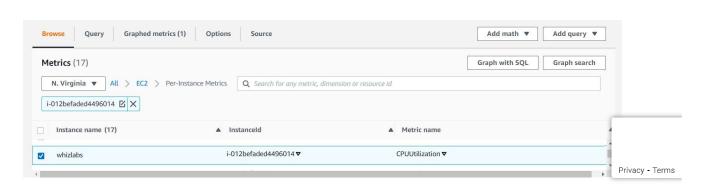
6. Select Metrics as data source.



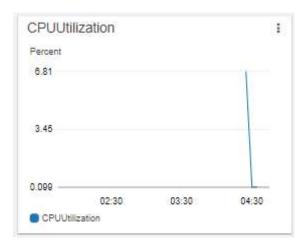
- 7. You will see a metric graph. Under **All metrics**, search and choose **EC2** (since we are going to watch the metrics of EC2 which we created earlier).
- 8. Under EC2, choose Per-Instance Metrics.



9. Paste the copied Instance id in the search bar and select the CPUUtilization from the metrics and click on Create Widget button.



- 10. Note: If you don't see the CPUUtilization metrics, wait for 5 minutes.
- 11. You have successfully created a Line widget for CPU Utilization.



Task 4: Creating different Widgets for same Metric

Stacked Area

- 1. In the dashboard, click on Add widget and select Stacked area. Click on Metrics.
- 2. You will see a metric graph. Under **All metrics**, search and choose **EC2** (since we are going to watch the metrics of EC2 which we have created earlier).
- 3. Under EC2, choose Per-Instance Metrics.
- 4. Search and select the **CPUUtilization** from the metrics and click on **Create Widget** button.
- 5. You have successfully created a Stacked Area widget for CPU Utilization.

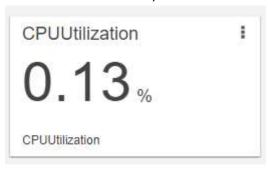




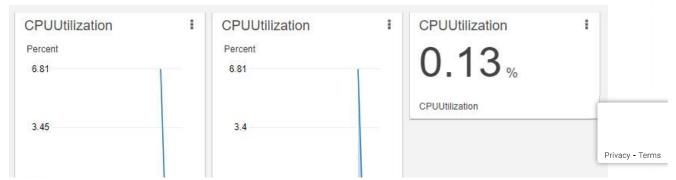


<u>Number</u>

- 1. In the dashboard, click on Add widget and select Number.
- 2. You can see a metric graph. Under **All metrics**, search and choose **EC2** (since we are going to watch the metrics of EC2 which we have created earlier).
- 3. Under EC2, choose Per-Instance Metrics.
- Search and select the CPUUtilization from the metrics and click on Create
 Widget button.
- 5. You have successfully created a **Number widget** for CPU Utilization.



- 6. Click on Save dashboard to save the widgets.
- 7. Refresh the page, until the metric value is shown.
- 8. Using these steps, you can use the widgets to create your own dashboard for metrics.
- 9. Note: The actual metric generated depends on the CPU Utilization.



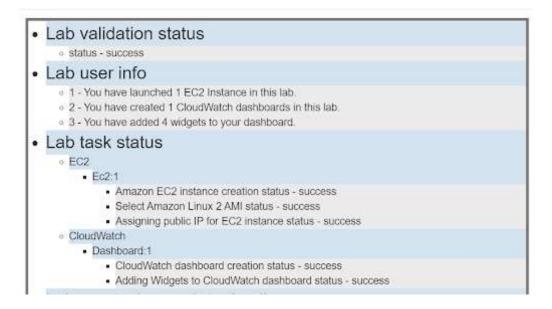


Task 5: Validation Test

1. Once the lab steps are completed, please click on the



- 2. This will validate the resources in the AWS account and displays whether you have completed this lab successfully or not.
- 3. Sample output:



Completion and Conclusion

- 1. You have successfully launched an EC2 Instance.
- 2. You have created a CloudWatch dashboard.
- 3. You have successfully created different widgets for the same metric.

End Lab

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



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