HI-TECH INSTITUTION

CORPORATE CAREER ENHANCEMENT TRAININGS

OUR ROOT LEVEL TRAINING WILL GIVE YOU BETTER GROWTH

Hi-Tech Institution

ABOUT US

Our Vision:

To provide better training by full filing the requirements of our trainee.

Our Mission:

We always ensure to give practical based training. And we make the candidates to get good hands-on experience on any platform.

Philosophy:

Our Root Level Training Will give you Better Growth.

We successfully survived around 5 years in the IT field. Started this is as small Training room. But now we are having 5 branches across India.

Certified Trainers taking the session on various domain with any level of doubts clarification.

For More Details: **www.hitechins.in**

Write feedback to **operations@hitechins.in**

Cloud Watch

Amazon Cloud Watch provides a reliable, scalable, and flexible monitoring solution that you can start using within minutes. You no longer need to set up, manage, and scale your own monitoring systems and infrastructure.

- Use Cloud Watch to monitor your AWS resources and the applications you run on AWS in real time.
- Use Cloud Watch Events to send system events from AWS resources to AWS Lambda functions, Amazon SNS topics, streams in Amazon Kinesis, and other target types.
- Use Cloud Watch Logs to monitor, store, and access your log files from Amazon EC2 instances, AWS Cloud Trail, or other sources.

Features & Benefits

Monitor Amazon EC2

View metrics for CPU utilization, data transfer, and disk usage activity from Amazon EC2 instances (Basic Monitoring) for no additional charge. For an additional charge, Cloud Watch provides Detailed Monitoring for EC2 instances with higher resolution and metric aggregation. No additional software needs to be installed.

Monitor Other AWS Resources

Monitor metrics on Amazon DynamoDB tables, Amazon EBS volumes, Amazon RDS DB instances, Amazon Elastic MapReduce job flows, Elastic Load Balancers, Amazon SQS queues, Amazon SNS topics, and more for no additional charge. No additional software needs to be installed.

Monitor Custom Metrics

Submit Custom Metrics generated by your own applications via a simple API request and have them monitored by Amazon Cloud Watch. You can send and store metrics that are important to your application's operational performance to help you troubleshoot and spot trends.

Monitor and Store Logs

You can use Cloud Watch Logs to monitor and troubleshoot your systems and applications using your existing system, application, and custom log files. You can send your existing system, application, and custom log files to Cloud Watch Logs and monitor these logs in near real-time. This can help you better understand and operate your systems and applications, and you can store your logs using highly durable, low-cost storage for later access.

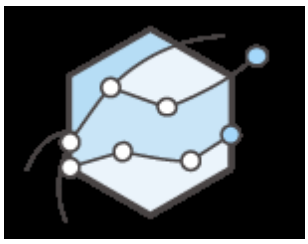
Set Alarms

Set alarms on any of your metrics to send you notifications or take other automated actions. For example, when a specific Amazon EC2 metric crosses your alarm threshold, you can use Auto Scaling to dynamically add or remove EC2 instances or send you a notification.

View Graphs and Statistics

Amazon Cloud watch Dashboards enable you to create re-usable graphs of AWS resources and custom metrics so you can quickly monitor operational status and identify issues at a glance. Metric data is kept for a period of fifteen months enabling you to view up to the minute data and also

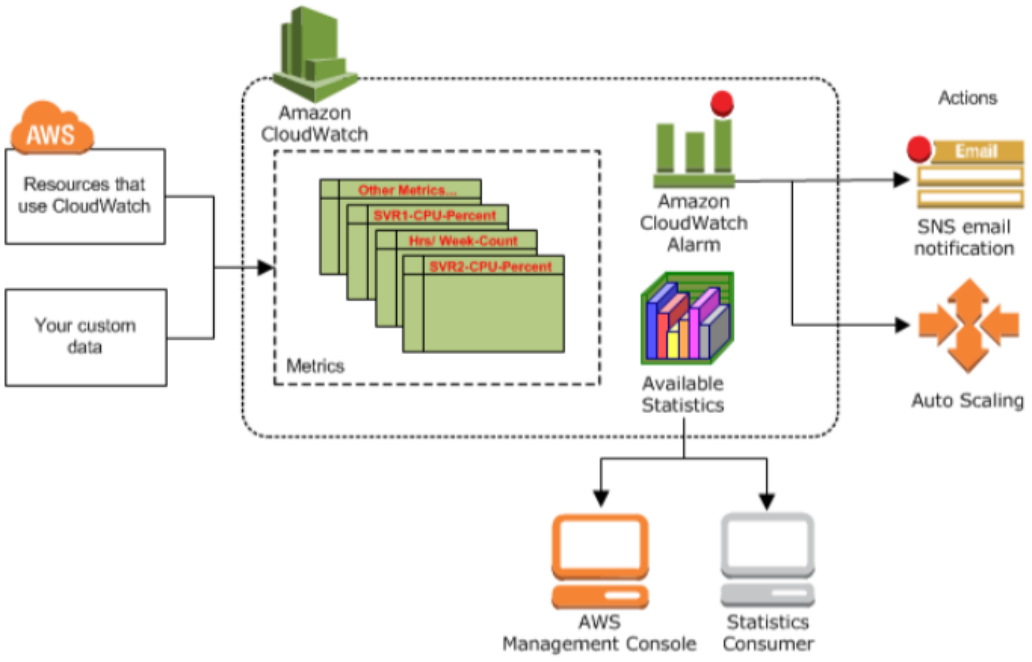
historical data. Amazon Cloud Watch can load all the metrics in your account for search and graphing with the AWS Management Console. This includes logs, AWS resource metrics, and application metrics that you provide.



Monitor and React to Resource Changes

Cloud Watch Events provides a stream of events describing changes to your AWS resources. You can easily build workflows that automatically take actions you define, such as invoking an AWS Lambda function, when an event of interest occurs.

How Amazon Cloud Watch Works:



Add or Remove a Graph from a Cloud Watch Dashboard

To add a graph to a dashboard

1. Open the CloudWatch console at https://console.aws.amazon.com/cloudwatch/.
2. In the navigation pane, choose **Dashboards** and select a dashboard.
3. Choose **Add widget**.
4. Choose either **Line** or **Stacked area**, and then choose **Configure**.
5. In the **All metrics** tab, select the metrics to graph.
6. (Optional) As you choose metrics to graph, you can change their color on the graph. To do so, choose **Graphed metrics** and select the color square next to the metric to display a color picker box. Choose another color square in the color picker, and then click outside the color picker to see your new color on the graph. Alternatively, in the color picker, you can type the six-digit standard HTML hex color code for the color you want and press ENTER.
7. Horizontal annotations can help dashboard users quickly see when a metric has spiked to a certain level, or whether the metric is within a predefined range. To add a horizontal annotation, choose **Graph options**, **Add horizontal annotation**:

   a. For **Label**, type a label for the annotation.

   b. For **Value**, type the metric value where the horizontal annotation appears.

   c. For **Fill**, specify whether to use fill shading with this annotation. For example, choose `Above` or `Below` for the corresponding area to be filled. If you specify `Between`, another `Value` field appears, and the area of the graph between the two values is filled.

   d. For **Axis**, specify whether the numbers in `Value` refer to the metric associated with the left Y-axis or the right Y-axis, if the graph includes multiple metrics.

   You can change the fill color of an annotation by choosing the color square in the left column of the annotation.

   Repeat these steps to add multiple horizontal annotations to the same graph.

   To hide an annotation, clear the checkbox in the left column for that annotation.

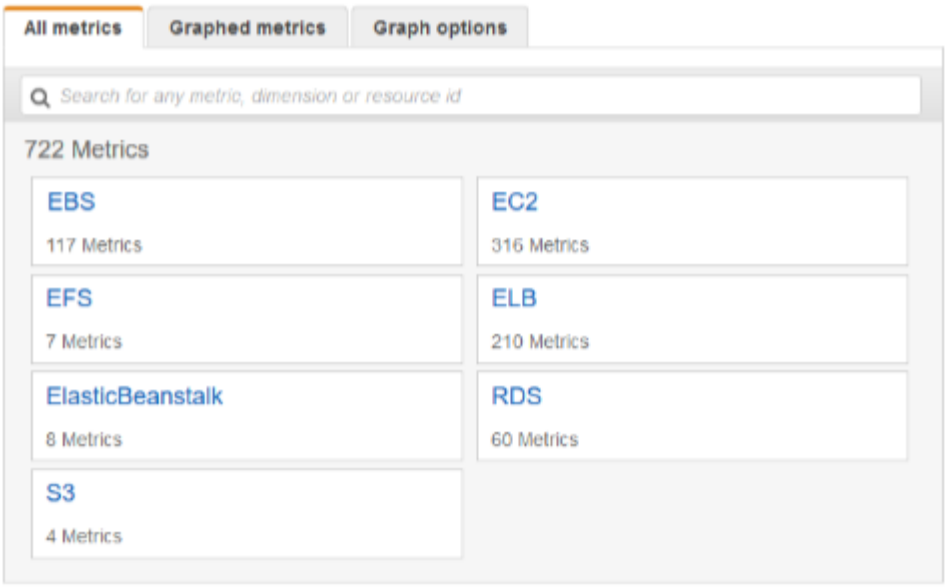
   To delete an annotation, choose **x** in the **Actions** column.
8. (Optional) To view more information about the metric being graphed, hover over the legend.
9. (Optional) To change the widget type, hover over the title area of the graph and choose **Widget actions**, **Widget type**.
10. Choose **Create widget**.
11. Choose **Save dashboard**.

To remove a graph from a dashboard

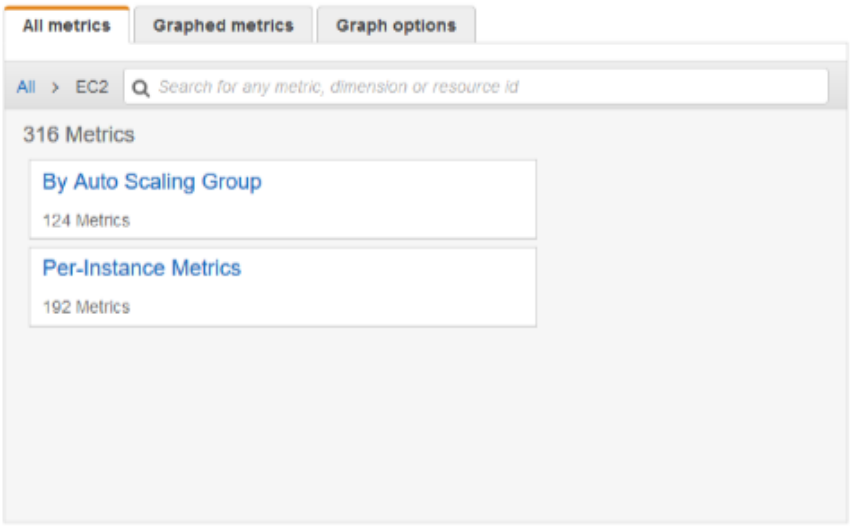
1. Open the CloudWatch console at https://console.aws.amazon.com/cloudwatch/.
2. In the navigation pane, choose **Dashboards** and select a dashboard.
3. Hover over the title of the graph and choose **Widget actions**, **Delete**.
4. Choose **Save dashboard**. If you attempt to navigate away from the dashboard before you save your changes, you are prompted to either save or discard your changes.

To view available metrics by namespace and dimension using the console

1. Open the CloudWatch console at https://console.aws.amazon.com/cloudwatch/.
2. In the navigation pane, choose **Metrics**.
3. Select a metric namespace (for example, EC2).

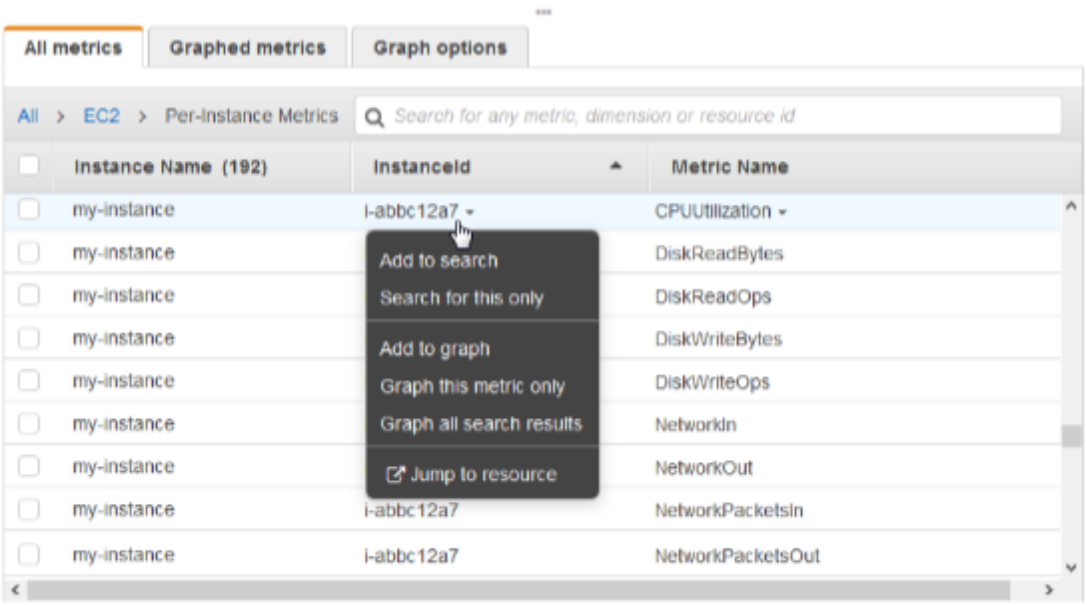


4. Select a metric dimension (for example, Per-Instance Metrics).



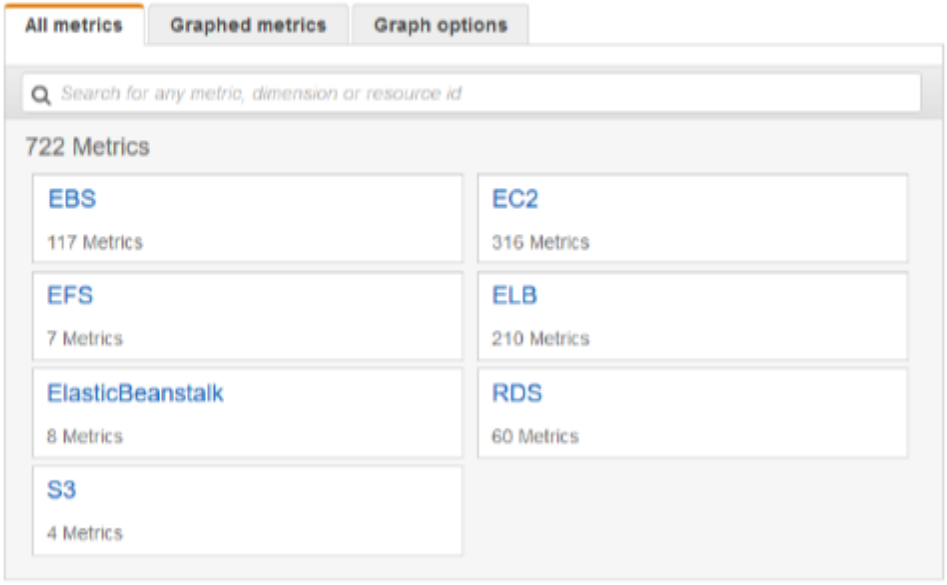
5. The **All metrics** tab displays all metrics for that dimension in the namespace. You can do the following:

   a. To sort the table, use the column heading.
   b. To graph a metric, select the check box next to the metric. To select all metrics, select the check box in the heading row of the table.
   c. To filter by resource, choose the resource ID and then choose **Add to search**.
   d. To filter by metric, choose the metric name and then choose **Add to search**.

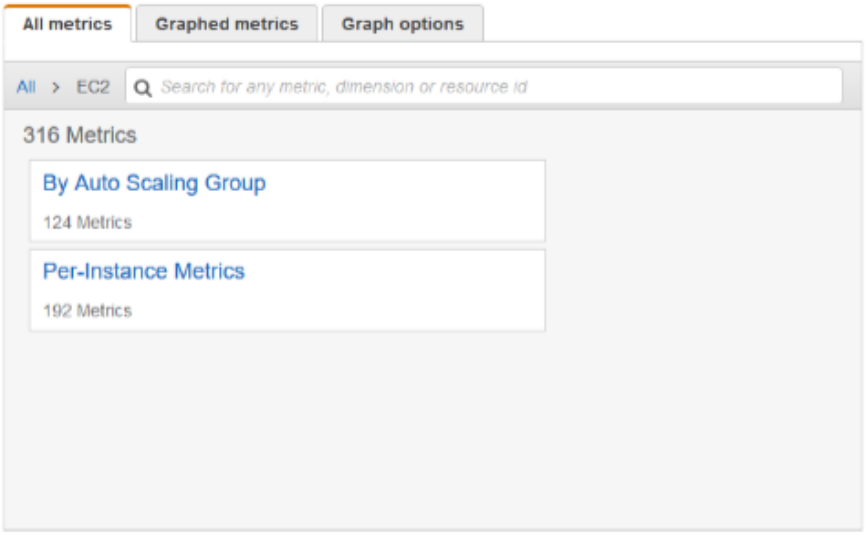


To display the average CPU utilization for a specific instance using the console

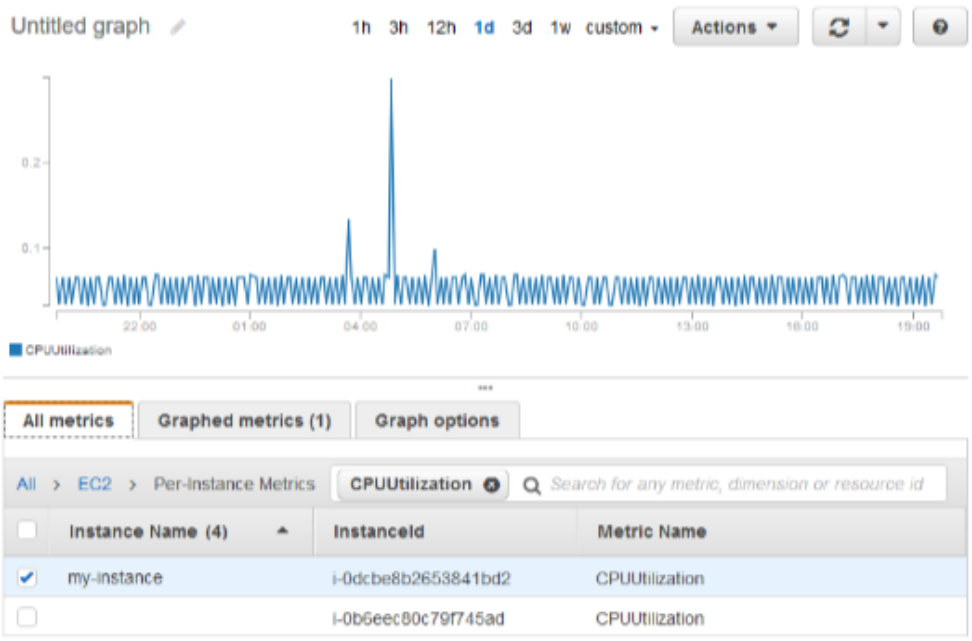
1. Open the CloudWatch console at https://console.aws.amazon.com/cloudwatch/.
2. In the navigation pane, choose **Metrics**.
3. Select the EC2 metric namespace.



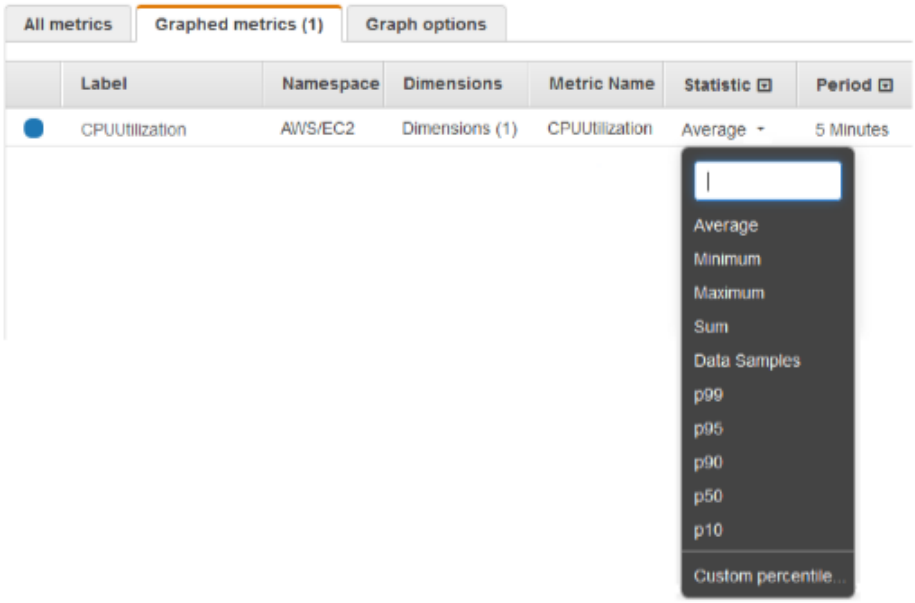
4. Select the Per-Instance Metrics dimension.



5. In the search field, type `CPUUtilization` and press Enter. Select the row for the specific instance, which displays a graph for the **CPUUtilization** metric for the instance. To change the name of the graph, choose the pencil icon. To change the time range, select one of the predefined values or choose **custom**.

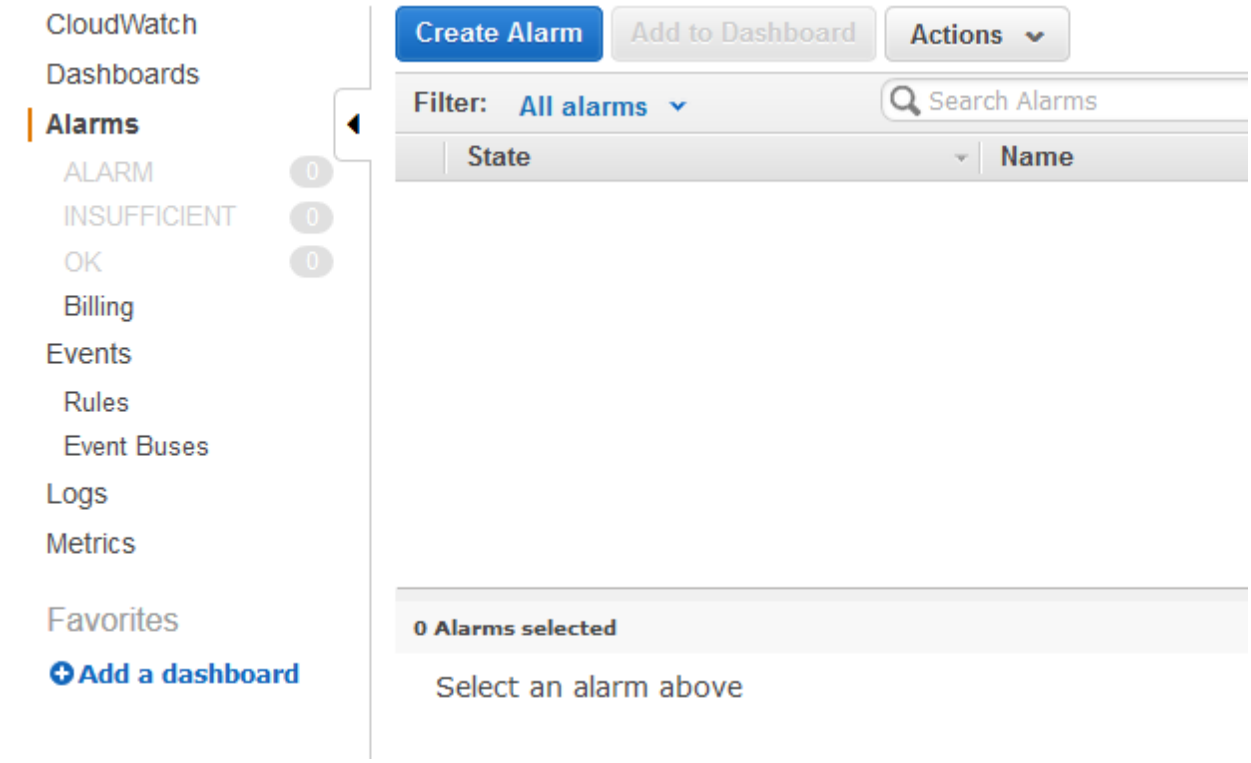


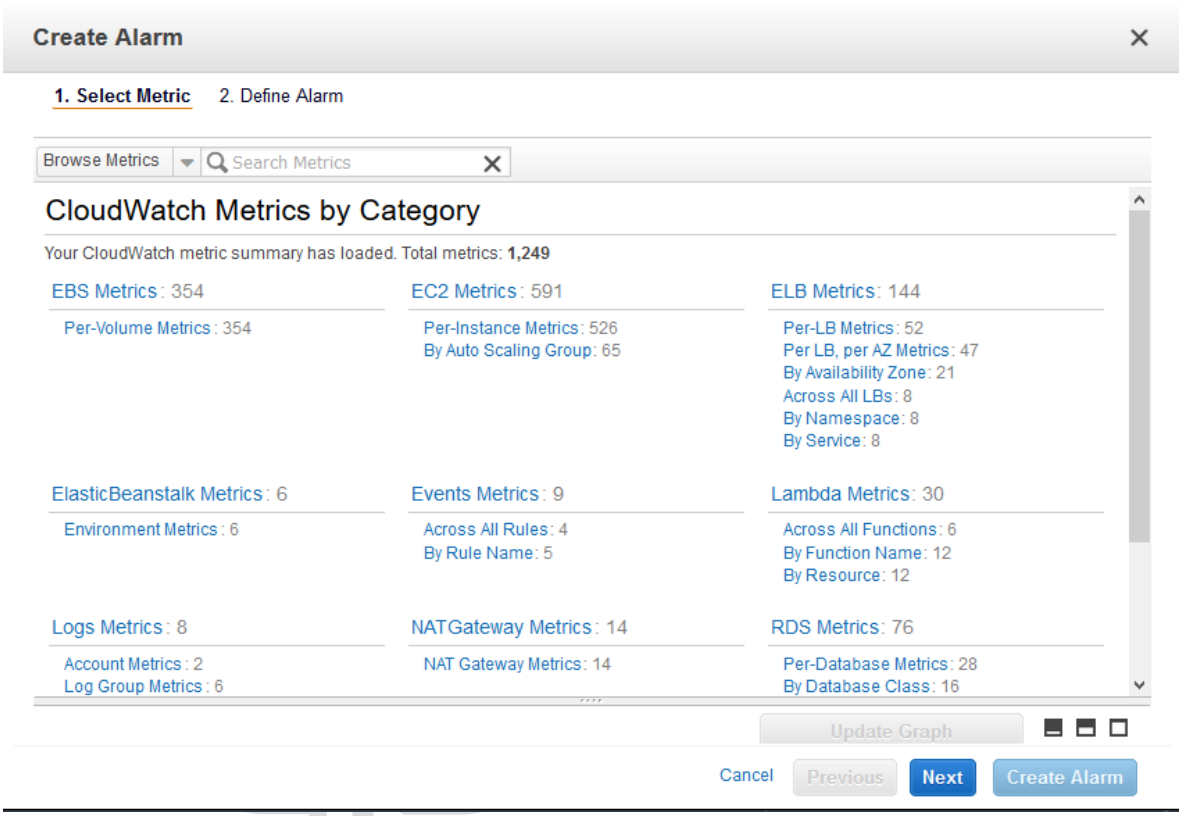
6. To change the statistic, choose the **Graphed metrics** tab. Choose the column heading or an individual value, and then choose one of the statistics or predefined percentiles, or specify a custom percentile (for example, p95.45).



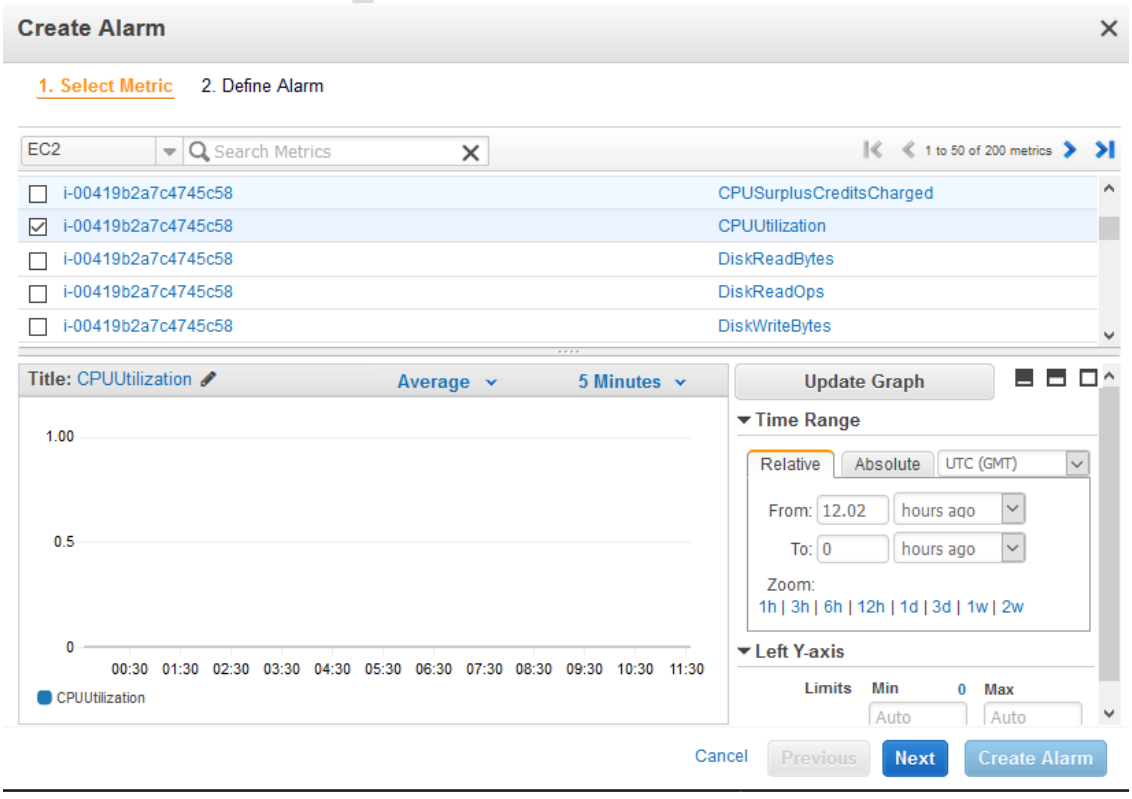
7. To change the period, choose the **Graphed metrics** tab. Choose the column heading or an individual value, and then choose a different value.

To create a Alarm:

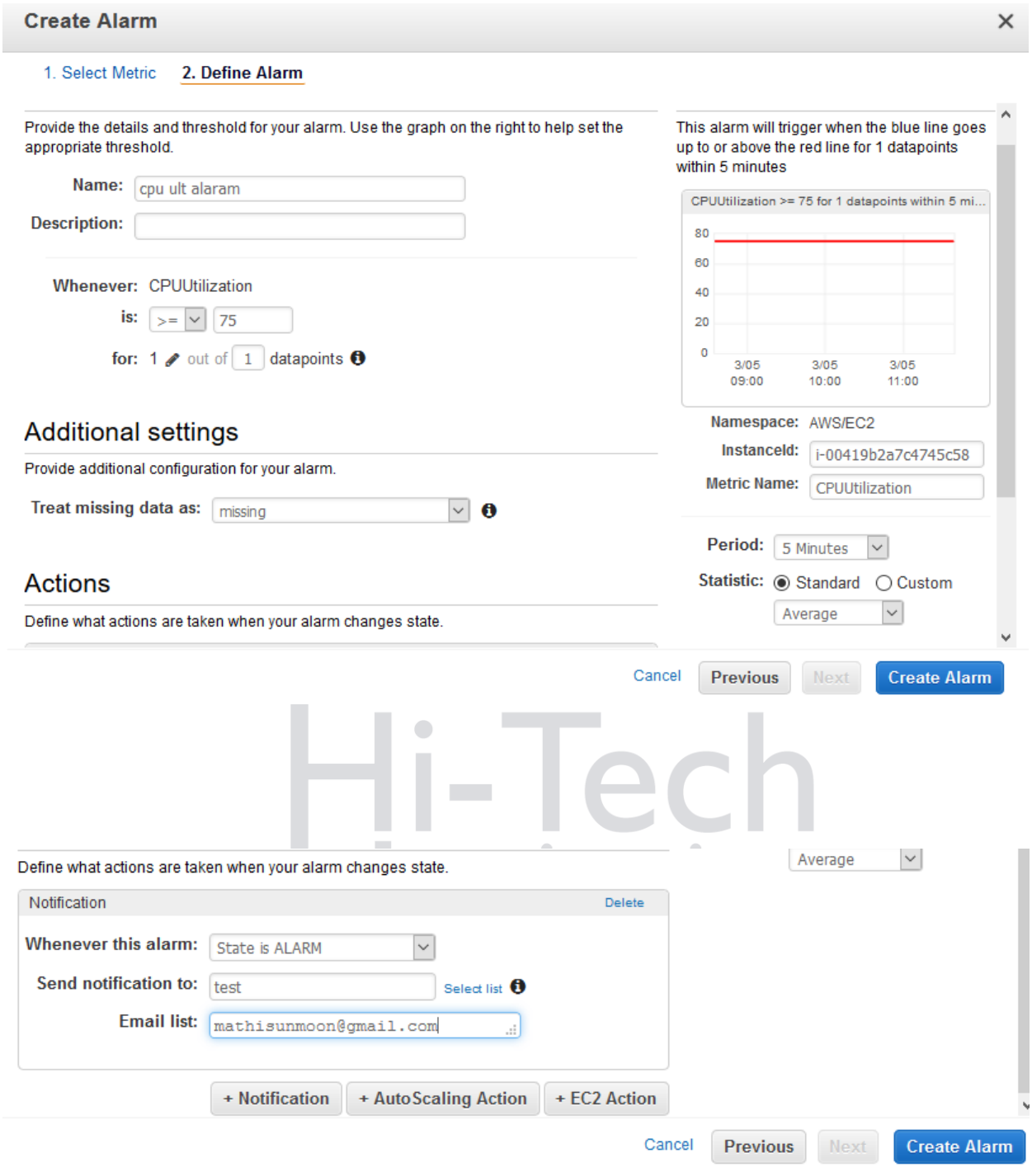




1. **Select a metric for what we need**



2. Define a ALARM



Types of Status Checks

There are two types of status checks: system status checks and instance status checks.

System Status Checks

Monitor the AWS systems on which your instance runs. These checks detect underlying problems with your instance that require AWS involvement to repair. When a system status check fails, you can choose to wait for AWS to fix the issue, or you can resolve it yourself. For instances backed by Amazon EBS, you can stop and start the instance yourself, which in most cases migrates it to a new host computer. For instances backed by instance store, you can terminate and replace the instance.

The following are examples of problems that can cause system status checks to fail:

- Loss of network connectivity
- Loss of system power
- Software issues on the physical host
- Hardware issues on the physical host that impact network reachability

Instance Status Checks

Monitor the software and network configuration of your individual instance. These checks detect problems that require your involvement to repair. When an instance status check fails, typically you will need to address the problem yourself (for example, by rebooting the instance or by making instance configuration changes).

The following are examples of problems that can cause instance status checks to fail:

- Failed system status checks
- Incorrect networking or startup configuration
- Exhausted memory
- Corrupted file system
- Incompatible kernel

Viewing Status Checks

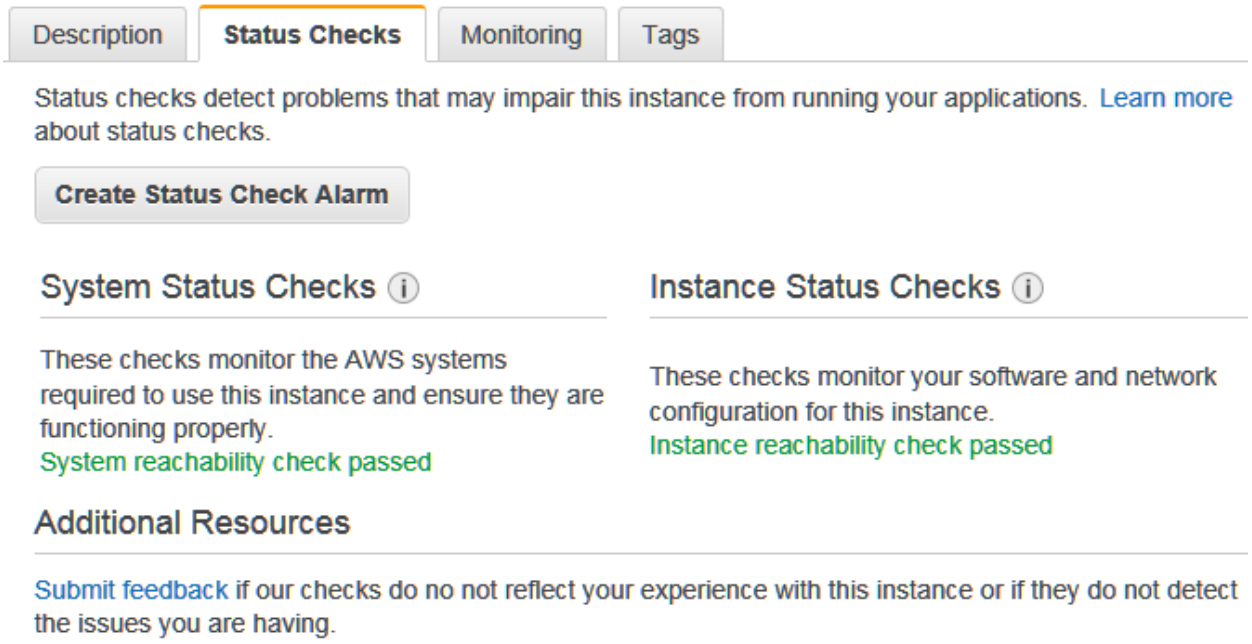
Amazon EC2 provides you with several ways to view and work with status checks.

Viewing Status Using the Console

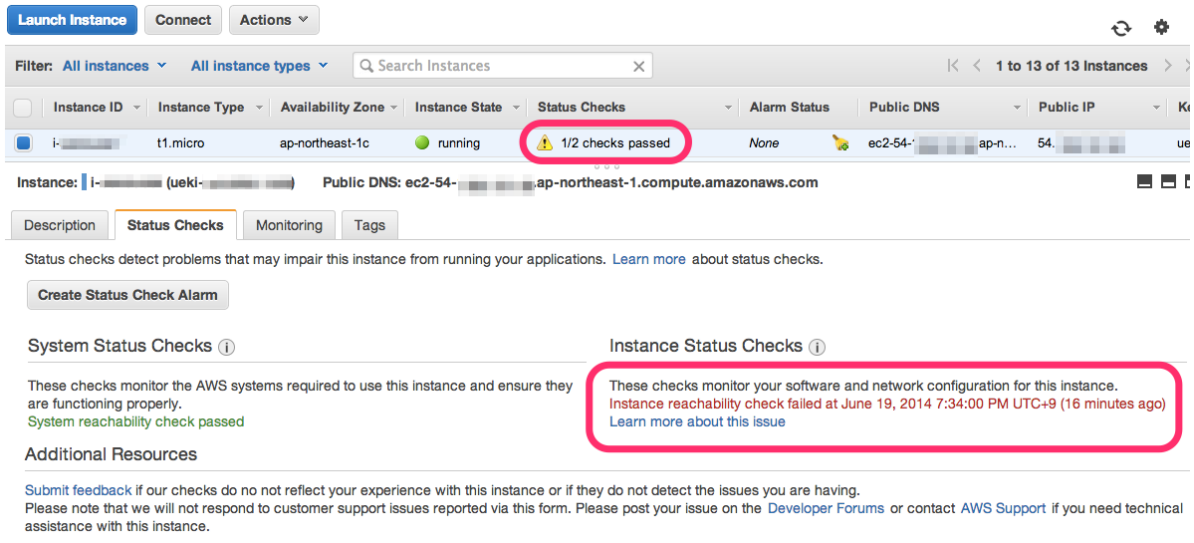
You can view status checks using the AWS Management Console.

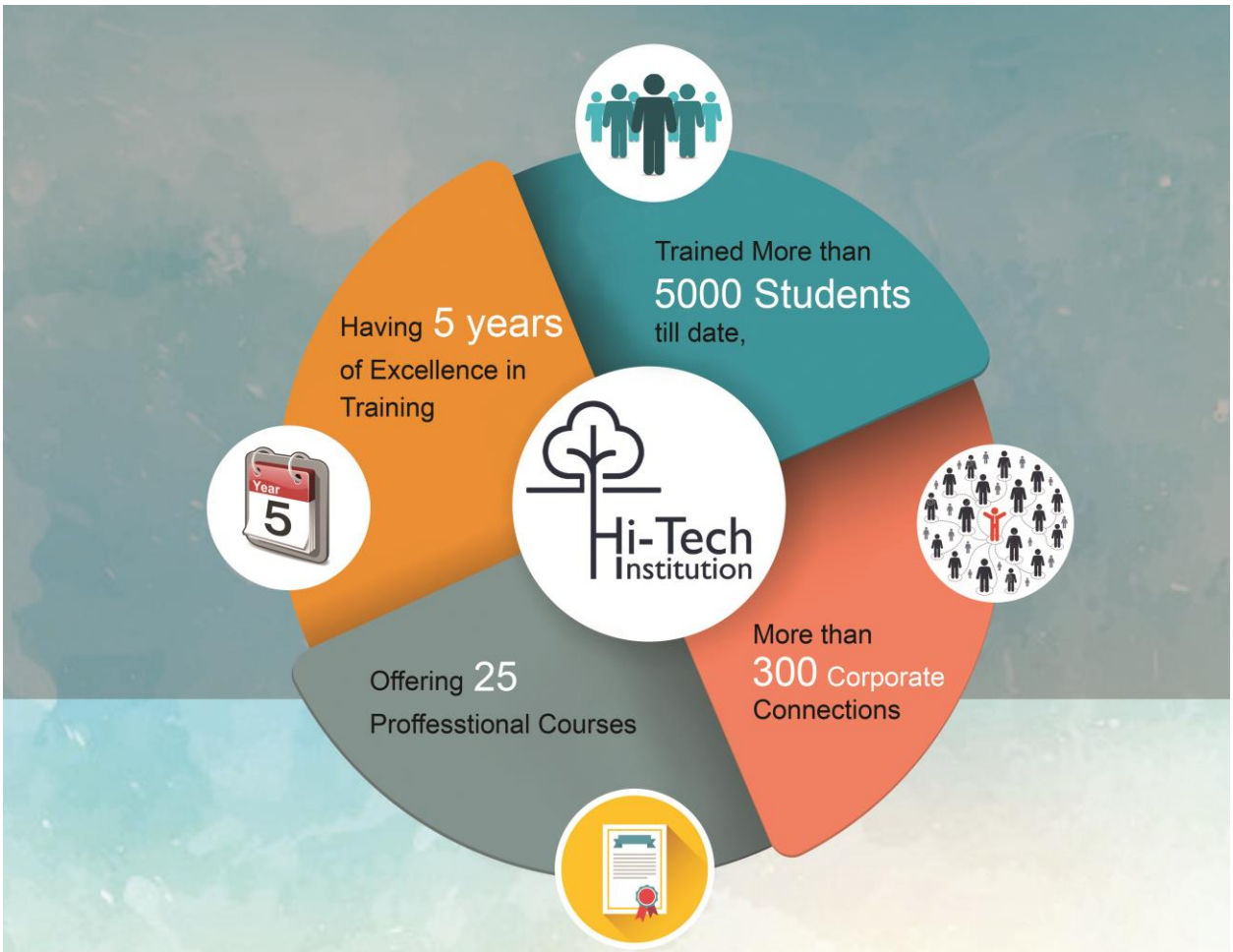
To view status checks using the console

- Open the Amazon EC2 console at https://console.aws.amazon.com/ec2/.
- In the navigation pane, choose **Instances**.
- On the **Instances** page, the **Status Checks** column lists the operational status of each instance.
- To view the status of a specific instance, select the instance, and then choose the **Status Checks** tab.



If you have an instance with a failed status check and the instance has been unreachable for over 20 minutes, choose **AWS Support** to submit a request for assistance. To troubleshoot system or instance status check failures yourself





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