Problem statement

Create an EC2 Instances with the following parameters,

Region: N. Virginia (us-east-1) Name: Windows-VM-Server

Add additional tags: Instances, Volumes, Network Interfaces

AMI: Microsoft Windows Server 2019 Base

Architecture: 64-bit (x86) Instance Type: t2.micro VPC: Default VPC

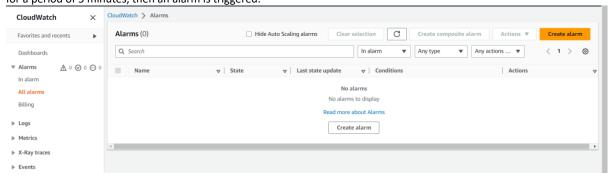
Security Group: Create security group Security group name: Windows-VM-Server Inbound rule: Allow RDP, HTTP, and HTTPS

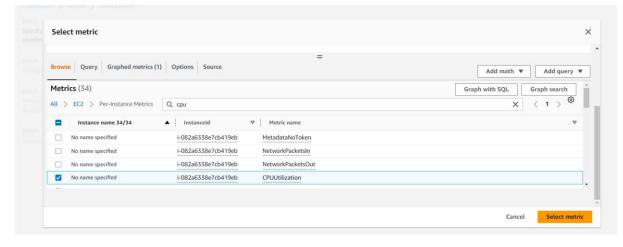
Source: 0.0.0.0/0 Disk Size: 30 GB

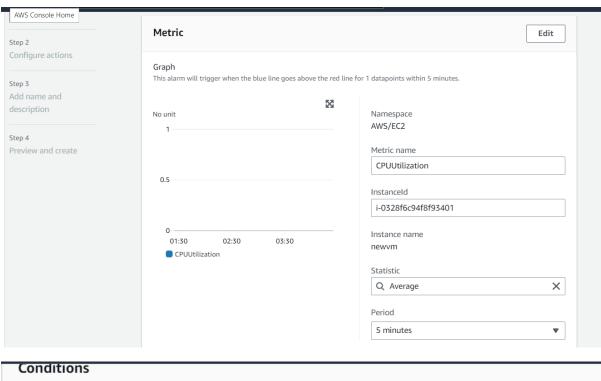
Volume Type: General Purpose SSD (gp2)

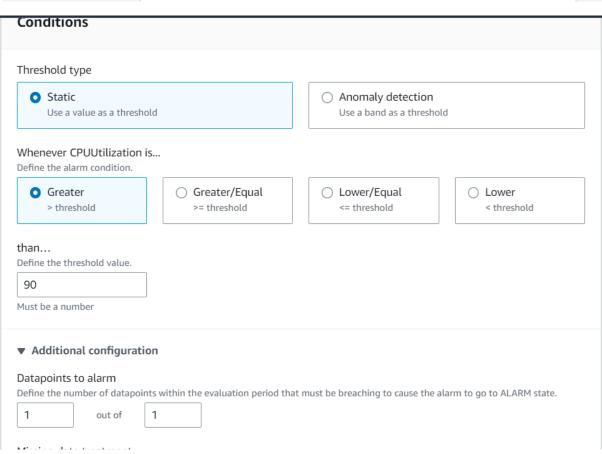
Number of instances: 1

Create a CloudWatch alarm when the CPU utilization of your EC2 instance that you have created above is greater than 90% for a period of 5 minutes, then an alarm is triggered.

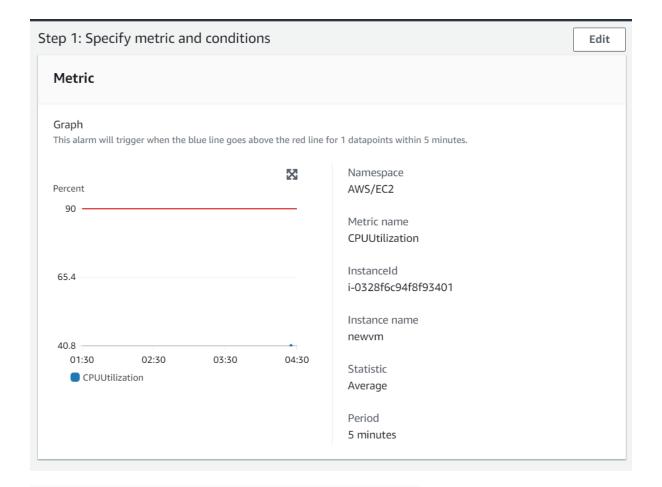








Notification		
Alarm state trigger Define the alarm state that will trigger this act	ion.	Remove
 In alarm The metric or expression is outside of the defined threshold. 	OK The metric or expression is within the defined threshold.	Insufficient data The alarm has just started or not enough data is available.
Send a notification to the following SNS Define the SNS (Simple Notification Service) to	-	
 Select an existing SNS topic 		
Create new topic		
 Use topic ARN to notify other account 	nts	
Send a notification to		
Q Select an email list		
Only email lists for this account are available.		
Add notification		
EC2 action		
Alama statut diama		
Alarm state trigger Define the alarm state that will trigger this ac	tion.	Remove
 In alarm The metric or expression is outside of the defined threshold. 	OK The metric or expression is within the defined threshold.	Insufficient data The alarm has just started or not enough data is available.
Take the following action Define what will happen to the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance was a second control of the EC2 instance with the EC2 instance with the EC2 instance was a second control of the EC2 instance with the E	with the Instance ID i-0328f6c94f8f93401 w	then this alarm is triggered.
Recover this instance You can only recover certain EC2 instance		33
	ed by an EBS volume. AWS will use the exist o perform this action. Show IAM policy docu	_
	rance if termination protection is enabled. At operform this action. Show IAM policy docu	
Reboot this instance An instance reboot is equivalent to an operating system reboot. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. Show IAM policy document		
Add EC2 action		



Conditions

Threshold type

Static

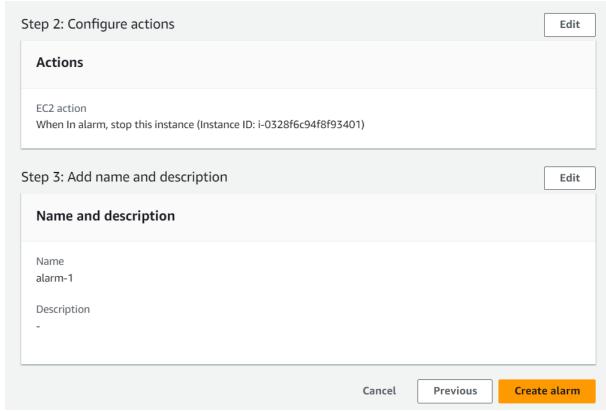
Whenever CPUUtilization is

Greater (>)

than...

90

▶ Additional configuration



Notes

Use the credentials given in the hands-on to log in to the AWS Portal.

Switch to new Console and Proceed.

Ensure that you are in the N. Virginia (us-east-1) region throughout the lab.

Connect to the VM from the local machine through the RDP connection.

After sign-in to the AWS Portal, it will take some time to enable the access policy to the account.

To create a CloudWatch alarm for an EC2 instance when the CPU utilization is greater than 90% for a period of 5 minutes, follow these steps:

Open the CloudWatch console in your AWS account.

In the left navigation pane, select "Alarms" and then click the "Create alarm" button.

In the "Create Alarm" wizard, select "EC2 metrics" and then choose "Per-Instance Metrics" for the "Metric Namespace". Choose "CPUUtilization" for the "Metric Name".

Choose the EC2 instance for which you want to create the alarm.

For the "Statistic", choose "Average".

For the "Period", choose "1 Minute".

For the "Threshold", enter "90".

Under the "Actions" section, click "New list" and choose "EC2 Actions".

Choose "Stop" or "Terminate" for the "Whenever this alarm" option, depending on what action you want to take when the alarm is triggered.

Enter a name and description for the alarm.

Click the "Create Alarm" button to create the alarm.

The alarm will be triggered when the CPU utilization of the selected EC2 instance is greater than 90% for a period of 5 minutes. You can choose to stop or terminate the instance as an action when the alarm is triggered.