

Start Course - Intellipa... IAM Management Console

console.aws.amazon.com/iamv2/home#/users

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User groups

Users

Roles

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Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

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Credential report

Organization activity

Service control policies (SCPs)

The users user1, user2, user3, user4 have been created.

IAM > Users

Users (4) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Find users by username or access key

User name

Groups

Last activity

MFA

Password age

Active key age

| | | | | | | |
|--------------------------|-------|------|-------|------|-----|-----|
| <input type="checkbox"/> | user1 | None | Never | None | Now | Now |
| <input type="checkbox"/> | user2 | None | Never | None | Now | Now |
| <input type="checkbox"/> | user3 | None | Never | None | Now | Now |
| <input type="checkbox"/> | user4 | None | Never | None | Now | Now |

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IAM Management Console

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console.aws.amazon.com/iamv2/home#/groups/details/Dev_Team?section=users

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Service control policies (SCPs)

IAM > User groups > Dev_Team

Dev_Team

Delete

Summary

Edit

User group name

Dev_Team

Creation time

November 21, 2021, 11:51 (UTC+05:30)

ARN

arn:aws:iam::120022485847:group/Dev_Team

Users

Permissions

Access Advisor

Users in this group (2) Info

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

🔍 Search

< 1 > ⚙️

| <input type="checkbox"/> | User name ↗ | Groups | Last activity | Creation time |
|--------------------------|-------------|--------|---------------|---------------|
| <input type="checkbox"/> | user1 | 2 | None | 2 minutes ago |
| <input type="checkbox"/> | user2 | 1 | None | 2 minutes ago |

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IAM Management Console

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Service control policies (SCPs)

Ops_Team

Delete

Edit

Summary

User group name

Ops_Team

Creation time

November 21, 2021, 11:52 (UTC+05:30)

ARN

arn:aws:iam::120022485847:group/Ops_Team

Users

Permissions

Access Advisor

Users in this group (3)

Info

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Search

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| | User name | Groups | Last activity | Creation time |
|--------------------------|-----------|--------|---------------|---------------|
| <input type="checkbox"/> | user3 | 1 | None | 2 minutes ago |
| <input type="checkbox"/> | user1 | 2 | None | 2 minutes ago |
| <input type="checkbox"/> | user4 | 1 | None | 2 minutes ago |

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Service control policies (SCPs)

IAM > User groups

User groups (2) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Filter User groups by property or group name and press enter

| <input type="checkbox"/> | Group name | Users | Permissions | Creation time |
|--------------------------|------------|-------|-------------|---------------|
| <input type="checkbox"/> | Dev_Team | 2 | Loading | 1 minute ago |
| <input type="checkbox"/> | Ops_Team | 3 | Loading | Now |

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Case Study – AWS DevOps

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Project 3 – Solution

Mock Interview Sessions

You have been asked to:

1. Create a policy number 1 which lets the users to:
 - a. Access S3 completely
 - b. Only create EC2 instances
 - c. And full access to RDS
2. Create a policy number 2 which allows the users to:
 - a. Access CloudWatch and Billing completely
 - b. And can only list EC2 and S3 resources
3. Attach policy number 1 to Dev Team from task 1
4. Attach policy number 2 to Ops Team from task 1

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IAM Management Co

Troubleshooting IAM

Creating IAM policies

Creating IAM policies

create a policy that all

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IAM > User groups > Dev_Team

Dev_Team

Delete

Summary

Edit

User group name

Creation time

ARN

Dev_Team

November 21, 2021, 11:51 (UTC+05:30)

arn:aws:iam::120022485847:group/Dev_Team

Users

Permissions

Access Advisor

Permissions policies (1)

Info

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter

< 1 >

Policy name

Type

Description

number1

Customer managed

full access S3 RDS

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IAM Management Co

Troubleshooting IAM

Creating IAM policies

Creating IAM policies

create a policy that all

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Service control policies (SCPs)

IAM > User groups > Ops_Team

Ops_Team

Delete

Summary

Edit

User group name

Ops_Team

Creation time

November 21, 2021, 11:52 (UTC+05:30)

ARN

arn:aws:iam::120022485847:group/Ops_Team

Users

Permissions

Access Advisor

Permissions policies (1)

Info

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter

Policy name

Type

Description

number2

Customer managed

full access cloudwatch and billing

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Service control policies (SCPs)

IAM > Users

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Find users by username or access key

User name

Groups

Last activity

MFA

Password age

Active key age

user1

Dev_Team and Ops_Team

Never

None

1 hour ago

1 hour ago

user2

Dev_Team

Never

None

1 hour ago

1 hour ago

user3

Ops_Team

Never

None

1 hour ago

1 hour ago

user4

Ops_Team

Never

None

1 hour ago

1 hour ago

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Assignment 3 – IAM

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Assignment 4 – SQS And SES

Case Study – CloudFormation

Module 8 - Access Management & Monitoring Services

IAM CLOUDWATCH PPT

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Assignment 2 – IAM

Assignment 3 – IAM

Assignment 4 – CloudWatch

Assignment 5 – CloudWatch

Case Study – IAM

Module 9 - Automation And Configuration Management

AWS Solutions Architect Training

IntelliPaat

Module-8: IAM Assignment - 3

You have been asked to:

1. Create a Role which only lets user1 and user2 from task 1 to have complete access to VPCs and DynamoDB

2. Login into user1 and shift to the role to test out the feature

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AWS Management Console

us-east-2.console.aws.amazon.com/console/home?region=us-east-2#

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Ohio user1 @ 1200-2248-5847

AWS Management Console

AWS services

▼ Recently visited services

Your recently visited AWS services appear here.

► All services


Build a solution

Get started with simple wizards and automated workflows.

Launch a virtual machine

With EC2


2-3 minutes



Build a web app

With Elastic Beanstalk


6 minutes




Build using virtual servers

With Lightsail

1-2 minutes



Stay connected to your AWS resources on-the-go



AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. [Learn more](#)

Explore AWS

Amazon Lookout for Metrics

Automatically detect anomalies in metrics and identify their root cause. [Learn more](#)

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- Users
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analyzers
- Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

Introducing the new IAM dashboard experience

We've redesigned the IAM dashboard experience to make it easier to use. [Let us know what you think.](#)

IAM dashboard

Security recommendations

✖

You do not have the permission required to perform this operation. Ask your administrator to add permissions.

User: arn:aws:iam::120022485847:user/user1 is not authorized to perform: iam:GetAccountSummary on resource: *

✖

You do not have the permission required to perform this operation. Ask your administrator to add permissions.

User: arn:aws:iam::120022485847:user/user1 is not authorized to perform: iam:ListMFADevices on resource: user user1

✖

You do not have the permission required to perform this operation. Ask your administrator to add permissions.

User: arn:aws:iam::120022485847:user/user1 is not authorized to perform: iam:ListAccessKeys on resource: user user1

IAM resources

✖

You do not have the permission required to perform this operation. Ask your administrator to add permissions.

User: arn:aws:iam::120022485847:user/user1 is not authorized to perform: iam:GetAccountSummary on resource: *

AWS Account

✖

You do not have the permission required to perform this operation. Ask your administrator to add permissions.

User: arn:aws:iam::120022485847:user/user1 is not authorized to perform: iam:ListAccountAliases on resource: *

Quick Links

My security credentials

Manage your access keys, multi-factor authentication (MFA) and other credentials.

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Your VPCs | VPC Management Co x

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#vpcs:

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Ohio user1 @ 1200-2248-5847

New VPC Experience
Tell us what you think

VPC Dashboard

EC2 Global View New

Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables New

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

SECURITY

Your VPCs (1) Info

Filter VPCs

Actions

Create VPC

< 1 >

| | Name | VPC ID | State | IPv4 CIDR | IPv6 CIDR | IPv6 po |
|--------------------------|------|--------------|-----------|---------------|-----------|---------|
| <input type="checkbox"/> | - | vpc-66f0860d | Available | 172.31.0.0/16 | - | - |

Select a VPC above

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Assignment 4 – CloudWatch

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Module 7 - Management & Application Services

Module 8 - Access Management & Monitoring Services

IAM CLOUDWATCH PPT

Assignment 1 – IAM

Assignment 2 – IAM

Assignment 3 – IAM

Assignment 4 – CloudWatch

Assignment 5 – CloudWatch

Case Study – IAM

AWS Solutions Architect Training

IntelliPaat

Module-8: CloudWatch Assignment - 4

You have been asked to:

1. Create a dashboard which lets to check the CPU Utilization and NetworkIn for a particular EC2 instance

Page 1 / 1Zoom 100%

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Add metric graph

Untitled graph

1h **3h** 12h 1d 3d 1w custom ▾

Pie ▼

All metrics

Graphed metrics (17)

Graph options

Source

N. Virginia ▾

All

EC2

Pe

Instance Metrics

Q

Search for any metric, dimension or resource id

Graph search

| <input checked="" type="checkbox"/> | Instance Name (17) | InstanceId | Metric Name |
|-------------------------------------|--------------------|---------------------|--------------------------|
| <input checked="" type="checkbox"/> | ubuntuEc2 | i-008e1004a82785774 | MetadataNoToken |
| <input checked="" type="checkbox"/> | ubuntuEc2 | i-008e1004a82785774 | CPUCreditUsage |
| <input checked="" type="checkbox"/> | ubuntuEc2 | i-008e1004a82785774 | CPUCreditBalance |
| <input checked="" type="checkbox"/> | ubuntuEc2 | i-008e1004a82785774 | CPUSurplusCreditBalance |
| <input checked="" type="checkbox"/> | ubuntuEc2 | i-008e1004a82785774 | CPUSurplusCreditsCharged |
| <input checked="" type="checkbox"/> | ubuntuEc2 | i-008e1004a82785774 | NetworkPacketsIn |

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console.aws.amazon.com/cloudwatch/home?region=us-east-1#dashboards:name=myEC2dashboard

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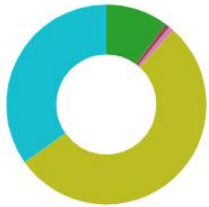
Add widget

Actions

Save dashboard

1h3h12h1d3d1wcustom

CPUCreditBalance, CPUCredit...



MetadataNoToken

CPUCreditUsage

CPUCreditBalance

CPUSurplusCreditBalance

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Assignment 5 – CloudWatch

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Assignment 4 – CloudWatch

Assignment 5 – CloudWatch

Case Study – IAM

Module 9 - Automation And Configuration Management

AWS Solutions Architect Training



Module-8: CloudWatch Assignment - 5

You have been asked to:

1. Create a CloudWatch Billing Alarm which goes off when the Estimated Charges goes above 500\$

2. Create a CloudWatch Alarm which goes off to an Alarm state when the CPU utilization of an EC2 instance goes above 65%

a. Also add an SNS topic so it notifies the person when the threshold is crossed

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Instances | EC2 Manag

CloudWatch Manag

how to create a cloud

how to create a cloud

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console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:?~(namespace~'AWS*2fBilling)

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CloudWatch

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In alarm

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Billing

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Settings

Getting Started

CloudWatch > Alarms

Billing alarms (0)

☐ Hide Auto Scaling alarms

Clear selection

🔄

Create composite alarm

Actions ▼

Create alarm

🔍 Search

Any state ▼

Any type ▼

< 1 >

⚙️

| ☐ | Name ▼ | State ▼ | Last state update ▼ | Conditions | Actions |
|---|--------|---------|---------------------|------------|---------|
| <div>Amazon CloudWatch can help you monitor the charges on your AWS bill by sending you email alerts when charges exceed a threshold you define.</div> <div>Once you update your preferences in the Account Billing console, you will begin receiving Amazon CloudWatch metrics that reflect your month-to-date AWS charges. Then, you can create a billing alarm by specifying a spending threshold and an e-mail address to notify. Learn more about billing alerts</div> <div>You get 10 free alarms and 1,000 free e-mail notifications each month as part of the AWS Free Tier</div> <div>Create alarm</div> | | | | | |

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CloudWatch > Alarms > Create alarm

Step 1

Specify metric and conditions

Step 2

Configure actions

Step 3
Add name and
description

Step 4
Preview and create

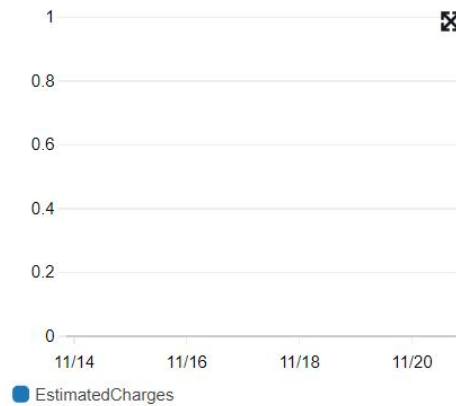
Specify metric and conditions

Metric

Edit

Graph

This alarm will trigger when the blue line goes above the red line for 1 datapoints within 6 hours.



Namespace
AWS/Billing

Metric name

EstimatedCharges

Currency

USD

Statistic

Q Maximum

Period

6 hours

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Step 3

Add name and description

Step 4

Preview and create

Define the alarm state that will trigger this action.

☒ 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.

Select an SNS topic

Define the SNS (Simple Notification Service) topic that will receive the notification.

☐ Select an existing SNS topic

☒ Create new topic

☐ Use topic ARN

Create a new topic...

The topic name must be unique.

Default_CloudWatch_Alarms_Topic

SNS topic names can contain only alphanumeric characters, hyphens (-) and underscores (_).

Email endpoints that will receive the notification...

Add a comma-separated list of email addresses. Each address will be added as a subscription to the topic above.

ashleshkulkarni19@gmail.com

user1@example.com, user2@example.com

Create topic

Add notification

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A screenshot of the AWS CloudWatch console navigation menu. The menu is displayed on a light gray background. At the top, the text "CloudWatch" is shown in a large, bold, black font, followed by a black "X" icon. Below this, a horizontal bar contains the word "Favorites" in a medium black font, with a black right-pointing triangle icon to its right. Underneath this bar, the word "Dashboards" is listed in a medium black font. The "Alarms" section is expanded, indicated by a black downward-pointing triangle icon to its left. To the right of "Alarms" are three status icons: a yellow triangle with a black exclamation mark, a green circle with a white checkmark, and a gray circle with three white dots, each followed by a "0". Below "Alarms", the text "In alarm" is shown in a medium black font. The text "All alarms" is highlighted in a bold orange font. Below that, "Billing" is listed in a medium black font. Further down, "Logs" is preceded by a black right-pointing triangle icon. "Metrics" is preceded by a black right-pointing triangle icon. "Events" is preceded by a black right-pointing triangle icon. "Application monitoring" is preceded by a black right-pointing triangle icon. "Insights" is preceded by a black right-pointing triangle icon. At the bottom, "Settings" is listed in a medium black font. The very bottom of the image shows the beginning of the "Getting Started" section, with the text "Getting Started" in a medium black font.

✔ Successfully created alarm AWSbillingAlarm.

 **Some subscriptions are pending confirmation** [View SNS Subscriptions](#) 
Amazon SNS doesn't send messages to an endpoint until the subscription is confirmed

CloudWatch > Alarms

Billing alarms (1)

☐ Hide Auto Scaling alarms

Clear selection

↺

Create composite alarm


Actions ▾


Create alarm

Search

Any state ▾

Any type ▾

< 1 >
 

| <input type="checkbox"/> | Name ▾ | State ▾ | Last state update ▾ | Conditions | Actions |
|--------------------------|-----------------|---------------------|---------------------|--|--|
| <input type="checkbox"/> | AWSBillingAlarm | ⌚ Insufficient data | 2021-11-21 20:41:04 | EstimatedCharges > 500 for 1 datapoints within 6 hours |  Actions enabled <u>Warning</u> |

CloudWatch

Favorites

Dashboards

Alarms

0

0

0

In alarm

All alarms

Billing

Logs

Metrics

Events

Application monitoring

Insights

Settings

Getting Started

Successfully created alarm [AWSBillingAlarm](#).

Some subscriptions are pending confirmation

Amazon SNS doesn't send messages to an endpoint until the subscription is confirmed

View SNS Subscriptions

CloudWatch > Alarms

Billing alarms (1)

☐ Hide Auto Scaling alarms

Clear selection

Create composite alarm

Actions

Create alarm

Search

Any state

Any type

< 1 >

| <input type="checkbox"/> | Name | State | Last state update | Conditions | Actions |
|--------------------------|---------------------------------|------------------------------|---------------------|--|---|
| <input type="checkbox"/> | AWSBillingAlarm | <div>Insufficient data</div> | 2021-11-21 20:41:04 | EstimatedCharges > 500 for 1 datapoints within 6 hours | <div>Actions enabled</div> <div>Warning</div> |

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Start Course - Intellipa... x

Start Course - Intellipa... x

Start Course - Intellipa... x

CloudWatch Management x

Simple Notification Service x

CloudWatch Management x

+ -

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:alarm/Ec2Utilization?~(selectedIds~(~'Ec2Utilization))

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aws

Services

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Ashlesh Kulkarni ▾

Resource Groups & Tag Editor

CloudWatch

×

Favorites

Dashboards

Alarms

⚠️ 0 ✅ 1 🗨️ 0

In alarm

All alarms

Billing

Logs

Metrics

Events

Application monitoring

Insights

Settings

Getting Started

CloudWatch > Alarms > Ec2Utilization

Alarms (1)

🔄

🔍 Search

Any state ▾

Any type ▾

☐ Hide Auto Scaling alarms

< 1 >

Ec2Utilization

Metric alarm

✅ OK

Ec2Utilization

🔄

Actions ▾

Details

| | | | | | | | |
|-------------|----------------|-------------|---|---------------|---------------------|------------------------------|---|
| Name | Ec2Utilization | State | ✅ OK | Namespace | AWS/EC2 | Datapoints to alarm | 1 out of 1 |
| Type | Metric alarm | Threshold | CPUUtilization > 65 for 1 datapoints within 1 day | Metric name | CPUUtilization | Missing data treatment | Treat missing data as missing |
| Description | No description | Last change | 2021-11-21 15:19:57 | Instanceld | i-008e1004a82785774 | Percentiles with low samples | evaluate |
| | | Actions | ✅ Actions enabled | Instance name | ubuntuEc2 | ARN | arn:aws:cloudwatch:us-east-1:120022485847:alarm:Ec2 Utilization |
| | | | | Statistic | Average | | |
| | | | | Period | 1 day | | |

▶ View EventBridge rule

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9:04 PM
11/21/2021

8

Amazon SNS

- Dashboard
- Topics
- Subscriptions

▼ Mobile

- Push notifications
- Text messaging (SMS)
- Origination numbers

Amazon SNS > Topics

Topics (4)

Edit Delete Publish message Create topic

Search

< 1 > ⚙

| | Name ▲ | Type ▼ | ARN ▼ |
|-----------------------|---------------------------------|----------|--|
| <input type="radio"/> | Default_CloudWatch_Alarms_Topic | Standard | arn:aws:sns:us-east-1:120022485847:Default_CloudWatch_Alarms_Topic |
| <input type="radio"/> | EC2breakdown | Standard | arn:aws:sns:us-east-1:120022485847:EC2breakdown |
| <input type="radio"/> | myEC2instance | Standard | arn:aws:sns:us-east-1:120022485847:myEC2instance |
| <input type="radio"/> | myec2break | Standard | arn:aws:sns:us-east-1:120022485847:myec2break |

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