



## BootCamp AWS – Module 5

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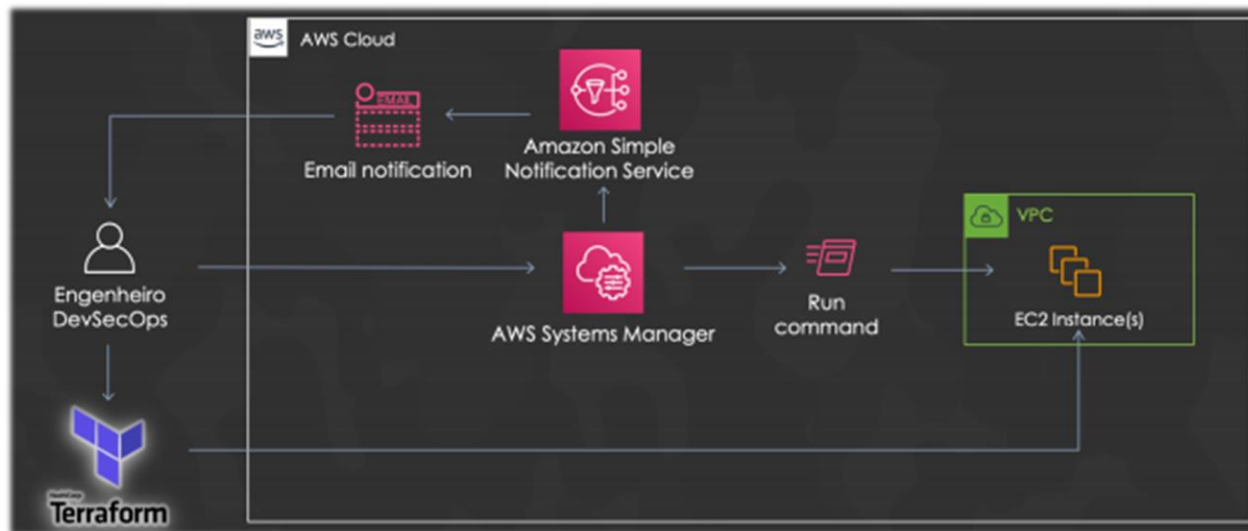
In this project you will act as a DevSecOps Engineer.

You received the requirement to implement a set of EC2 Instances in an automated way.

Also as part of the DevSecOps team you must install a specific security agent used by the company that will run in an automated way in all this Instances.



## BootCamp AWS – Module 5 – Architecture





# BootCamp AWS – Module 5 – Terraform

```
EXPLORER: TERRAFORM
> .terraform
> conf
.terraform.lock.hcl
M3KEY
M3KEY.pub
main.tf
outputs.tf
parameters.tf
terraform.tfstate
terraform.tfstate.backup
tfvars.tf

main.tf
1 #Get Ubuntu AMI
2 data "aws_ami" "ubuntu" {
3   most_recent = true
4
5   filter {
6     name = "name"
7     values = ["ubuntu/images/hvm-ssd/ubuntu-f
8   }
9
10  filter {
11    name = "virtualization-type"
12    values = ["hvm"]
13  }
14
15  owners = ["099720109477"] # Canonical
16
17 }
18
19 # Create a VPC
20 resource "aws_vpc" "VPC_BOOTCAMP1" {
21   cidr_block = "10.1.0.0/16"
22   enable_dns_hostnames = true
23
24   tags = {
25     Name = "VPC_BOOTCAMP"
26   }
27 }
```

## IaC with Terraform:

- Get ubuntu AMI;
- Create VPC and Subnet;
- Internet Gateway and Routing Table;
- Security Group;
- Role for SSM access SNS;
- SNS topic and subscription;
- EC2 Instances;



# BootCamp AWS – Module 5 – EC2 Instances

Instances | EC2 Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:instanceState=running

Search for services, features, marketplace products, and docs [Alt+S]

Services

New EC2 Experience Tell us what you think

EC2 Dashboard **New**

Events

Tags

Limits

▼ Instances

Instances **New**

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances **New**

Dedicated Hosts

Scheduled Instances

Capacity Reservations

▼ Images

AMIs

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Security Groups **New**

Elastic IPs **New**

Placement Groups

Key Pairs

Network Interfaces **New**

▼ Load Balancing

Instances (2) Info

Filter instances

Instance state: running X Clear filters

Connect Instance state Actions Launch instances

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	webserv2	i-02c2418b799ac396a	Running	t2.micro	2/2 checks passed	No alarms +	us-east-1a	ec2-54-146-5-92.comp...	54.146.5.92	-
<input type="checkbox"/>	webserv1	i-0060216aab5c1566d	Running	t2.micro	2/2 checks passed	No alarms +	us-east-1a	ec2-52-206-134-98.co...	52.206.134.98	-

Select an instance above

Feedback English (US)

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# BootCamp AWS – Module 5 – Role SSMtoSNS

The screenshot displays the AWS IAM console interface for the 'SSMtoSNS' role. The left-hand navigation pane includes sections for 'Identity and Access Management (IAM)' and 'Access management', with 'Roles' highlighted. The main content area is titled 'Summary' and provides details about the role, including its ARN, description, instance profile ARNs, path, creation time, last activity, and maximum session duration. Below the summary, there are tabs for 'Permissions', 'Trust relationships', 'Tags', 'Access Advisor', and 'Revoke sessions'. The 'Permissions' tab is active, showing a list of permissions policies. A table lists the 'AmazonSNSFullAccess' policy, which is an AWS managed policy. The table has columns for 'Service', 'Access level', 'Resource', and 'Request condition'. The 'Service' column shows 'SNS', 'Access level' is 'Full access', 'Resource' is 'All resources', and 'Request condition' is 'None'. The table also indicates that there are 284 services in total, with 283 remaining to be shown. At the bottom of the console, there is a footer with 'Feedback', 'English (US)', and copyright information for Amazon Web Services, Inc. or its affiliates.

Identity and Access Management (IAM)

- Dashboard
- Access management
  - User groups
  - Users
  - Roles**
  - Policies
  - Identity providers
  - Account settings
- Access reports
  - Access analyzer
  - Archive rules
  - Analizers
  - Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

Search IAM

AWS account ID: 365176486745

Roles > SSMtoSNS

### Summary

Role ARN: [arn:aws:iam::365176486745:role/SSMtoSNS](#)

Role description: [Edit](#)

Instance Profile ARNs: [+](#)

Path: /

Creation time: 2021-06-07 20:20 UTC-0300

Last activity: 2021-06-07 20:46 UTC-0300 (Today)

Maximum session duration: 1 hour [Edit](#)

[Delete role](#)

Permissions | Trust relationships | Tags | Access Advisor | Revoke sessions

Permissions policies (1 policy applied)

[Attach policies](#) [Add inline policy](#)

Policy name	Policy type
<a href="#">AmazonSNSFullAccess</a>	AWS managed policy

[Policy summary](#) [JSON](#) [Simulate policy](#)

Filter

Service	Access level	Resource	Request condition
Allow (1 of 284 services) <a href="#">Show remaining 283</a>			
<a href="#">SNS</a>	Full access	All resources	None

Permissions boundary (not set)

Generate policy based on CloudTrail events

Feedback English (US)

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# BootCamp AWS – Module 5 – Topic and Subscription

Simple Notification Service x +

console.aws.amazon.com/sns/v3/home?region=us-east-1#/topic/arn:aws:sns:us-east-1:365176486745:DevOpsNotification

aws Services Search for services, features, marketplace products, and docs [Alt+S]

fsainovich N. Virginia Support

Amazon SNS

- Dashboard
- Topics
- Subscriptions
- ▼ Mobile
  - Push notifications
  - Text messaging (SMS)
  - Origination numbers

Amazon SNS > Topics > DevOpsNotification

DevOpsNotification

Edit Delete Publish message

Details

Name	DevOpsNotification	Display name	-
ARN	arn:aws:sns:us-east-1:365176486745:DevOpsNotification	Topic owner	365176486745
Type	Standard		

Subscriptions Access policy Delivery retry policy (HTTP/S) Delivery status logging Encryption Tags

Subscriptions (1)

Edit Delete Request confirmation Confirm subscription Create subscription

Search

	ID	Endpoint	Status	Protocol
<input type="radio"/>	bfaed9ea-4e62-4381-a17e-be50dde83a5	fernando.sainovich@gmail.com	Confirmed	EMAIL

Feedback English (US)

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# BootCamp AWS – Module 5 – SSM Host Association

The screenshot displays the AWS Systems Manager console interface. The left-hand navigation pane includes sections for 'Operations Management' (Explorer, OpsCenter, CloudWatch Dashboard, PHD, Incident Manager), 'Application Management' (Application Manager, AppConfig, Parameter Store), 'Change Management' (Change Manager, Automation, Change Calendar, Maintenance Windows), and 'Node Management' (Fleet Manager, Compliance, Inventory, Hybrid Activations, Session Manager). The main content area is titled 'Host Management' and shows 'Configuration details' for a specific configuration. It includes a 'Summary' section with targets (OUs: not applicable, Regions: us-east-1) and configuration options (Update Systems Manager Agent, Collect inventory, Scan instances). Below this is a 'Filter result' section with a dropdown for 'All Regions' and a search bar. The 'Configuration deployment status' section shows a donut chart with 1 total deployment, all successful. The 'Configuration association status' section shows a donut chart with 5 total associations, all successful. At the bottom, there is a 'Configuration details' section with a table of deployment status and a 'View details' button. The footer of the console shows the date '© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and links for 'Privacy Policy', 'Terms of Use', and 'Cookie preferences'.

**Host Management**

**Summary**

Targets

- OUs: not applicable
- Regions: us-east-1

Configuration options

- Update Systems Manager (SSM) Agent every two weeks.
- Collect inventory from your instances every 30 minutes.
- Scan instances for missing patches daily.

**Filter result**

All Regions Filter results

**Configuration deployment status**

The status of your configuration's deployment to its targets.

1 Total

Success 1

Failed 0

Pending 0

**Configuration association status**

The status of the State Manager associations created by your configuration.

5 Total

Success 5

Failed 0

Pending 0

**Configuration details**

The status of each configuration deployment. You can choose a configuration deployment, and select 'View details' for more details.

Last updated: just now  
Configuration progress updated every 30 seconds.

View details



# BootCamp AWS – Module 5 – SSM Session Manager

AWS Systems Manager - Session x +

console.aws.amazon.com/systems-manager/session-manager/start-session?region=us-east-1

aws Services Search for services, features, marketplace products, and docs [Alt+S]

fsainovich N. Virginia Support

**AWS Systems Manager**

Quick Setup

▼ Operations Management

- Explorer
- OpsCenter
- CloudWatch Dashboard
- PHD
- Incident Manager *Now*

▼ Application Management

- Application Manager *Now*
- AppConfig
- Parameter Store

▼ Change Management

- Change Manager *Now*
- Automation
- Change Calendar
- Maintenance Windows

▼ Node Management

- Fleet Manager *Now*
- Compliance
- Inventory
- Hybrid Activations
- Session Manager**

AWS Systems Manager > Session Manager > Start a session

## Start a session

Select the instance that you would like to start a session on

**Target instances**

Q

	Instance name	Instance ID	Agent version	Instance state	Availability zone	Platform
<input type="radio"/>	webserver1	i-0060216aab5c1566d	3.0.529.0	running	us-east-1a	Ubuntu
<input type="radio"/>	webserver2	i-02c2418b799ac396a	3.0.529.0	running	us-east-1a	Ubuntu

Cancel Start session

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# BootCamp AWS – Module 5 – SSM Run Command

AWS Systems Manager - Run Command

console.aws.amazon.com/systems-manager/run-command/complete-commands?region=us-east-1

Search for services, features, marketplace products, and docs [Alt+S]

Services

**AWS Systems Manager**

Quick Setup

**Operations Management**

- Explorer
- OpsCenter
- CloudWatch Dashboard
- PHD
- Incident Manager *New*

**Application Management**

- Application Manager *New*
- AppConfig
- Parameter Store

**Change Management**

- Change Manager *New*
- Automation
- Change Calendar
- Maintenance Windows

**Node Management**

- Fleet Manager *New*
- Compliance
- Inventory
- Hybrid Activations
- Session Manager

**Run Command**

Commands **Command history**

Command history

View details Rerun Copy to new Run command

1

Command ID	Status	Requested date	Document name	Comment	# targets	# error	# delivery timed out	# completed
c120be81-1526-4d18-8357-9b7f1eb674ce	Success	Mon, 07 Jun 2021 23:45:54 GMT	AWS-RunShellScript		2	0	0	2
61631110-6eec-433c-b5f1-b781bd86d62a	Success	Mon, 07 Jun 2021 23:37:36 GMT	AWS-RunPatchBaselineAssociation	9da4e479-e5e9-4460-8045-8eb8ae138efb:e3264229-4b87-4690-9f9b-30759db82eab	1	0	0	1
867b652b-cffa-4f63-bae2-1a04f3733e8	Success	Mon, 07 Jun 2021 23:37:36 GMT	AWS-UpdateSSMAgent	4c7f41ce-788d-4fa3-b84a-2aa0f3bf286:d56ca5c9-00a7-40bc-99fb-4b666cd32292	1	0	0	1
c69535e5-3023-4321-ab76-dda0f005c3d1	Success	Mon, 07 Jun 2021 23:37:20 GMT	AWS-RunPatchBaselineAssociation	9da4e479-e5e9-4460-8045-8eb8ae138efb:e3264229-4b87-4690-9f9b-30759db82eab	1	0	0	1
f3af52dd-f230-4da0-82ed-1f8f5527fb9b	Success	Mon, 07 Jun 2021 23:37:20 GMT	AWS-UpdateSSMAgent	4c7f41ce-788d-4fa3-b84a-2aa0f3bf286:d56ca5c9-00a7-40bc-99fb-4b666cd32292	1	0	0	1
08260db0-7cbc-4e51-a2e3-f577aafbf94	Success	Mon, 07 Jun 2021 23:11:23 GMT	AWS-UpdateSSMAgent	81c5b2ce-8454-4c9f-aa05-4e16cee83efa:1eec765a-2aa8-4530-86f7-bd24a71d1136	1	0	0	1
cad69cfe-b390-448c-84c6-140b3aca096f	Success	Mon, 07 Jun 2021 23:11:22 GMT	AWS-RefreshAssociation	Apply association with id at creation time: 4af94b69-95ff-4c98-8f10-a3da9c55b815	2	0	0	2
0983e617-6246-4bd9-93d1-ea68b31dbe7d	Success	Mon, 07 Jun 2021 23:11:22 GMT	AWS-RunPatchBaselineAssociation	11071dd6-6804-4138-9c48-d0f968aa5163:187361a6-4e1b-45a8-9758-617df2c10e5e	1	0	0	1
d9896f30-f1cb-4b7f-b254-0c1fac336f49	Success	Mon, 07 Jun 2021 23:00:07 GMT	AWS-RunPatchBaselineAssociation	c4b81e8e-e60a-48f3-8769-ae5a287995c7:11b7375d-6824-4dcc-bd1e-c8e448ece7e4	1	0	0	1

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# BootCamp AWS – Module 5 – SSM Run to SNS Topic

AWS Systems Manager - Run Command

console.aws.amazon.com/systems-manager/run-command/send-command?region=us-east-1

Search for services, features, marketplace products, and docs [Alt+S]

Services

aws

Quick Setup

Operations Management

- Explorer
- OpsCenter
- CloudWatch Dashboard
- PHD
- Incident Manager New

Application Management

- Application Manager New
- AppConfig
- Parameter Store

Change Management

- Change Manager New
- Automation
- Change Calendar
- Maintenance Windows

Node Management

- Fleet Manager New
- Compliance
- Inventory
- Hybrid Activations
- Session Manager

Rate control

Output options

SNS notifications

SNS notifications

Configure Systems Manager to send notifications about command statuses using Amazon Simple Notification Service.

☒ Enable SNS notifications

IAM role

Choose an IAM role to start SNS notifications

arn:aws:iam::365176486745:role/SSMtoSNS

SNS topic

Enter an SNS topic. An SNS topic is a communication channel to subscribe to notifications. [Learn more.](#)

arn:aws:sns:us-east-1:365176486745:DevOpsNotification

Event notifications

Choose the types of events you want to be notified about. [Learn more.](#)

All events

Change notifications

Choose when you would like to receive notifications about changes to Run Command.

☐ Command status changes

Notifies you when the status of a command changes.

☒ Command status on each instance changes

Notifies you when the command status of an instance changes.

AWS command line interface command

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# BootCamp AWS – Module 5 – SSM Run Result

AWS Systems Manager - Run Command

console.aws.amazon.com/systems-manager/run-command/c120be81-1526-4d18-8357-9b7f1eb674ce?region=us-east-1

Search for services, features, marketplace products, and docs [Alt+S]

Services

AWS Systems Manager

Quick Setup

Operations Management

- Explorer
- OpsCenter
- CloudWatch Dashboard
- PHD
- Incident Manager *New*

Application Management

- Application Manager *New*
- AppConfig
- Parameter Store

Change Management

- Change Manager *New*
- Automation
- Change Calendar
- Maintenance Windows

Node Management

- Fleet Manager *New*
- Compliance
- Inventory
- Hybrid Activations
- Session Manager

AWS Systems Manager > Run Command > Command ID: c120be81-1526-4d18-8357-9b7f1eb674ce

Command ID: c120be81-1526-4d18-8357-9b7f1eb674ce

Cancel command Rerun Copy to new

Command status

Overall status	Detailed status	# targets	# completed	# error	# delivery timed out
Success	Success	2	2	0	0

Targets and outputs

View output

1

Instance ID	Instance name	Status	Detailed Status	Start time	Finish time
i-02c2418b799ac396a		Success	Success	Mon, 07 Jun 2021 23:45:55 GMT	Mon, 07 Jun 2021 23:46:25 GMT
i-0060216aab5c1566d		Success	Success	Mon, 07 Jun 2021 23:45:55 GMT	Mon, 07 Jun 2021 23:46:25 GMT

Command description

Command parameters

Parameters		
commands	"sudo wget -q https://bootcamp-aws.s3.amazonaws.com/install_security_agent.sh -P /tmp", "sudo chmod +x /tmp/install_security_agent.sh", "sudo /tmp/install_security_agent.sh", "ls -ltr /usr/bin/security_agent"	Delivery timeout (seconds) 600 Execution timeout (seconds) 3600
executionTimeout	"3600"	
workingDirectory	"	

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# BootCamp AWS – Module 5 – SSM Run Result – E-mail

EC2 Run Command Notification us-east-1 Caixa de entrada x

**AWS Notifications** <no-reply@sns.amazonaws.com> seg., 7 de jun. 20:46 (há 19 horas)

para mim ▾

Inglês ▾ > português ▾ [Traduzir mensagem](#) [Desativar para: inglês x](#)

{ "commandId": "c120be81-1526-4d18-8357-9b7f1eb674ce", "documentName": "AWS-RunShellScript", "instanceId": "i-02c2418b799ac396a", "requestedDateTime": "2021-06-07T23:45:55.245Z", "status": "Success", "detailedStatus": "Success", "eventTime": "2021-06-07T23:46:26.532Z" }

--

If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:  
<https://sns.us-east-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-1:365176486745:DevOpsNotification:blaed9ea-4e62-4381-a17a-be50dcde83a5&Endpoint=fernando.sainovich@gmail.com>

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>

Responder Encaminhar



# BootCamp AWS – Module 5 – Extra Challenge:

## CloudTrail Audit – Security Group change

CloudTrail Management Console

console.aws.amazon.com/cloudtrail/home?region=us-east-1#events/55b548b1-7681-4a97-b65d-c92f325c0589

CloudTrail > Event history > AuthorizeSecurityGroupIngress

### AuthorizeSecurityGroupIngress

**Details**

Event time June 08, 2021, 11:04:51 (UTC-03:00)	AWS access key ASIAVKBRW7NM4QWSVDG5	AWS region us-east-1
User name root	Source IP address 189.34.13.12	Error code -
Event name AuthorizeSecurityGroupIngress	Event ID 55b548b1-7681-4a97-b65d-c92f325c0589	Read-only false
Event source ec2.amazonaws.com	Request ID 02bbe376-b9f1-4de2-8ef5-3a1768dee464	

**Resources referenced (1)**

Resource type	Resource name	AWS Config resource timeline
AWS::EC2::SecurityGroup	sg-009735564c4f99444	Enable AWS Config resource recording

**Event record**

```
{
  "eventVersion": "1.00",
  "userIdentity": {
    "type": "Root",
    "principalId": "365176486745",
    "arn": "arn:aws:iam::365176486745:root",
    "accountId": "365176486745",
    "accessKeyId": "ASIAVKBRW7NM4QWSVDG5",
    "sessionContext": {
      "sessionIssuer": {}
    }
  }
```

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# BootCamp AWS – Module 5 – Extra Challenge:

## Integrate CloudTrail with CloudWatch

The screenshot displays the AWS CloudTrail Management Console for a trail named 'management-events'. The interface includes a left-hand navigation menu with options like Dashboard, Event history, Insights, Trails, Pricing, Documentation, Forums, and FAQs. The main content area shows the trail's configuration details, which are organized into sections: General details, CloudWatch Logs, Tags, and Management events.

**General details**

Trail logging	Trail log location	Log file validation	SNS notification delivery
Logging	aws-cloudtrail-logs-365176486745-a080cac1/AWSLogs/365176486745	Disabled	Disabled
Trail name	management-events	Last file validation delivered	Last SNS notification
Multi-region trail		-	-
Yes			
Apply trail to my organization			
Not enabled			

**CloudWatch Logs**

Log group	IAM Role
aws-cloudtrail-logs-365176486745-9ba7a6e1	arn:aws:iam::365176486745:role/service-role/CloudTrailToCloudWatchLog

**Tags**

Key	Value
No tags	
No tags associated with this trail	

**Management events**



# BootCamp AWS – Module 5 – Extra Challenge:

## CloudWatch alarm on Security Group change

The screenshot shows the AWS CloudWatch console interface for creating a new alarm. The breadcrumb navigation indicates the path: CloudWatch > Alarms > Alarm-ChangeSG > Edit. The left sidebar shows four steps: Step 1 (Specify metric and conditions), Step 2 (Configure actions), Step 3 (Add name and description), and Step 4 (Preview and create). The main content area is titled 'Specify metric and conditions' and contains two sections: 'Metric' and 'Conditions'.

**Metric Section:**

- Graph:** A line graph showing a blue line (representing the metric) and a red horizontal threshold line at 1. The x-axis represents time from 17:00 to 19:00. A legend indicates the blue line is for 'SecurityGroupEventCount'.
- Form Fields:**
  - Namespace: CloudTrailMetrics
  - Metric name: SecurityGroupEventCount
  - Statistic: Sum
  - Period: 5 minutes

**Conditions Section:**

- Threshold type:** Radio buttons for 'Static' (selected) and 'Anomaly detection'.
- When SecurityGroupEventCount is...:** Radio buttons for 'Greater', 'Greater/Equal' (selected), 'Lower/Equal', and 'Lower'.

The footer of the console shows 'Feedback', 'English (US)', and copyright information for Amazon Web Services, Inc. (© 2008 - 2021).



# BootCamp AWS – Module 5 – Extra Challenge:

## CloudWatch alarm notification – Slack and E-mail

CloudWatch Management Console

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2/edit/Alarm-ChangeSGT- (Page=Actions-AlarmType=MetricAlarm-AlarmData=(Namespace=CloudTrailMetrics-MetricName=SecurityGroupEventCount-Dimensions={})...

Services Search for services, features, marketplace products, and docs [Alt+S]

Step 3 Add name and description

Step 4 Preview and create

☒ 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

Send a notification to...

DevOpsNotification

Only email lists for this account are available.

Email (endpoints)  
fernando.sainovich@gmail.com - View in SNS Console

Alarm state trigger  
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

Send a notification to...

Slack

Only email lists for this account are available.

Email (endpoints)  
https://global.sns-api.chatbot.amazonaws.com - View in SNS Console

Add notification

Feedback English (US)

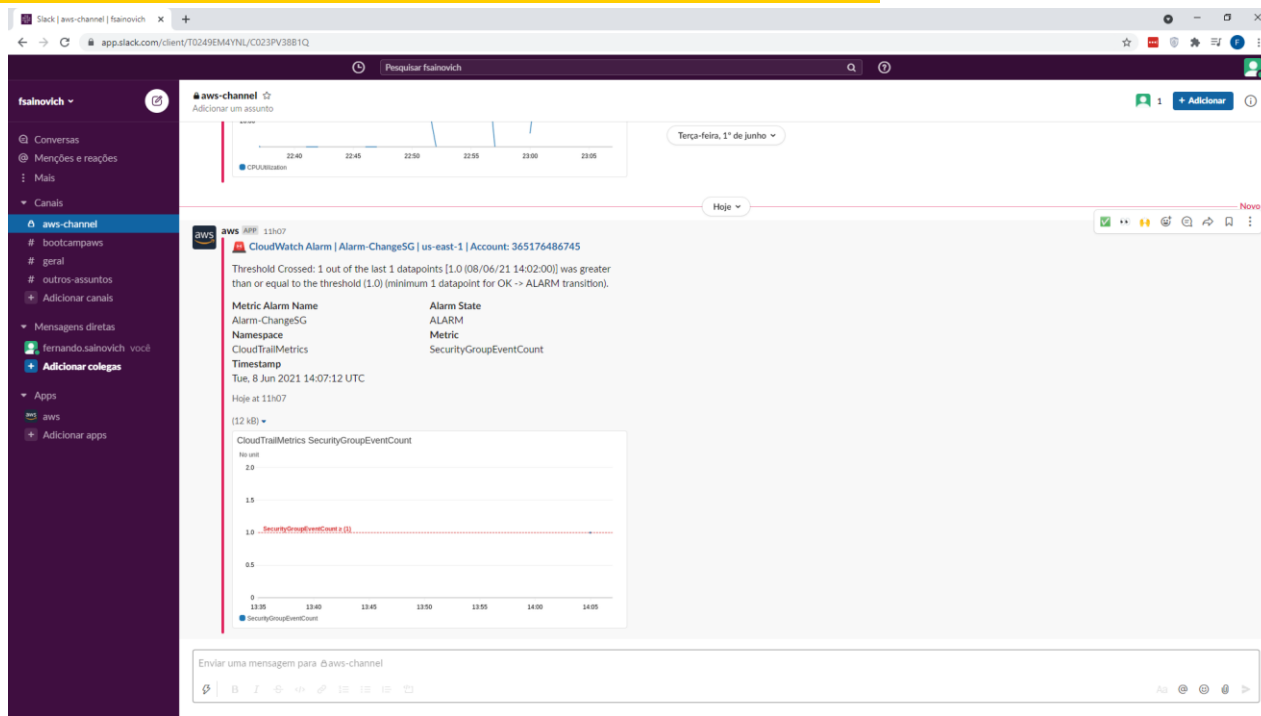
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# BootCamp AWS – Module 5 – Extra Challenge:

## CloudWatch alarm notification – Slack





# BootCamp AWS – Module 5 – Extra Challenge:

## CloudWatch alarm notification – E-mail

8 de 285 < >

ALARM: "Alarm-ChangeSG" in US East (N. Virginia) > [Caixa de entrada x]

AWS Notifications <no-reply@sns.amazonaws.com> 11:07 (há 5 horas) ☆ ↶ ⋮  
para mim ▾

🌐 inglês ▾ > português ▾ Traduzir mensagem Desativar para: inglês x

You are receiving this email because your Amazon CloudWatch Alarm "Alarm-ChangeSG" in the US East (N. Virginia) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [1.0 (08/06/21 14:02:00)] was greater than or equal to the threshold (1.0) (minimum 1 datapoint for OK -> ALARM transition)." at "Tuesday 08 June, 2021 14:07:12 UTC".

View this alarm in the AWS Management Console:  
<https://us-east-1.console.aws.amazon.com/cloudwatch/deeplink.js?region=us-east-1&alarmsV2:alarm/Alarm-ChangeSG>

Alarm Details:

- Name: Alarm-ChangeSG
- Description:
- State Change: INSUFFICIENT\_DATA -> ALARM
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [1.0 (08/06/21 14:02:00)] was greater than or equal to the threshold (1.0) (minimum 1 datapoint for OK -> ALARM transition)
- Timestamp: Tuesday 08 June, 2021 14:07:12 UTC
- AWS Account: 365176486745
- Alarm Arn: arn:aws:cloudwatch-us-east-1:365176486745:alarm:Alarm-ChangeSG

Threshold:

- The alarm is in the ALARM state when the metric is GreaterThanOrEqualToThreshold 1.0 for 300 seconds.

Monitored Metric:

- MetricNamespace: CloudTrailMetrics
- MetricName: SecurityGroupEventCount
- Dimensions:
- Period: 300 seconds
- Statistic: Sum
- Unit: not specified
- TreatMissingData: missing

State Change Actions:

- OK:
- ALARM: [arn:aws:sns-us-east-1:365176486745:DevOpsNotification:bfaed9ea-4e62-4381-a17e-ba50dcd83a5a5&Endpoint=fernando.sainovich@gmail.com]
- INSUFFICIENT\_DATA:

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## BootCamp AWS – Module 5 – Github REPO

<https://github.com/fsainovich/tcb-aws-m5>