

AWS Policy

Team Emertxe



AWS Policy

What?



- An object in AWS that, when associated with an identity or resource, defines their permissions
- You manage access in AWS by creating policies and attaching them to IAM identities (users, groups of users, or roles) or AWS resources
- AWS evaluates these policies when a principal entity (user or role) makes a request
- Permissions in the policies determine whether the request is allowed or denied

AWS Policy

What?



- There are different types of policies supported in AWS based on
 - Identity
 - Resource
 - Permission
 - Organizations Service Control Policies (SCP)
 - Access Control List (ACLs)
 - Session

AWS Policy

What?



- In our case we need to allow our device to communicate with AWS
- Hence we need to create a policy permitting it
- To do so, please proceed through the following slides

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Or to sign in as an IAM user, enter your
account ID or account alias instead.

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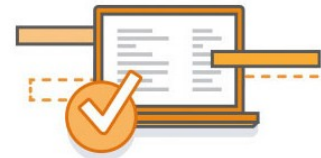
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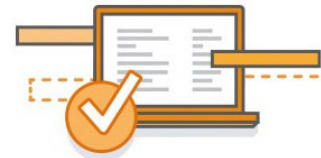
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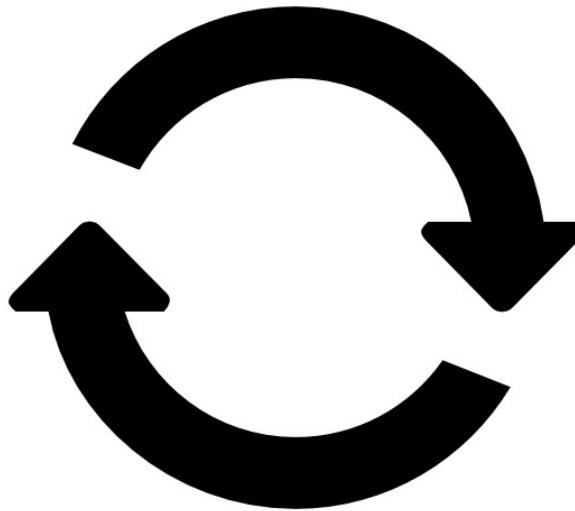
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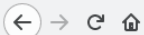


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AWS Management Console

AWS services

Find Services

You can enter names, keywords or acronyms.

Example: Relational Database Service, database, RDS

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



Connect an IoT device

With AWS IoT

5 minutes



Start a development project

With CodeStar

5 minutes



Register a domain

With Route 53

3 minutes



Deploy a serverless microservice

With Lambda, API Gateway

2 minutes



Create a backend for your mobile app

With Mobile Hub

5 minutes



Access r



- You should see your user ID and the selected region here
- Pick the required region, since the device created in a specific region will not be available in other
- Note that, there are some services available in some specific regions. So make sure you plan your application properly

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▼ All services

Compute

EC2
Lightsail
ECR
ECS
EKS
Lambda
Batch
Elastic Beanstalk
Serverless Application Repository

Storage

S3
EFS
FSx
S3 Glacier
Storage Gateway
AWS Backup

Database

RDS
DynamoDB

Developer Tools

CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

Robotics

AWS RoboMaker

Blockchain

Amazon Managed Blockchain

Satellite

Ground Station

Management & Governance

AWS Organizations
CloudWatch
AWS Auto Scaling

Machine Learning

Amazon SageMaker
Amazon Comprehend
AWS DeepLens
Amazon Lex
Machine Learning
Amazon Polly
Rekognition
Amazon Transcribe
Amazon Translate
Amazon Personalize
Amazon Forecast
Amazon Textract
AWS DeepRacer

Analytics

Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight

Mobile

AWS Amplify
Mobile Hub
AWS AppSync
Device Farm

AR & VR

Amazon Sumerian

Application Integration

Step Functions
Amazon MQ
Simple Notification Service
Simple Queue Service
SWF

Customer Engagement

Amazon Connect
Pinpoint
Simple Email Service

Business Applications

Access resources on the go



Access the Management Console using the AWS Console Mobile App. [Learn more](#)

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AWS Fargate runs and scales your containers without having to manage servers or clusters. [Learn more](#)

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- As the concentration is on IoT Application, let's look for IoT Core service

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Alexa for Business Provides Tools to Manage Alexa in Your Organization
- Amazon Chime
Amazon Chime is a communications service that transforms online meetings
- Amazon Comprehend
Analyze Unstructured Text
- Amazon Connect
Amazon Connect is a contact center that enables engagement at any scale.
- Amazon DocumentDB
Fully-managed MongoDB-compatible database service
- Amazon Forecast
Amazon Forecast is a fully-managed service for accurate time-series forecasting
- Amazon FreeRTOS
Amazon FreeRTOS is an IoT Operating System for Microcontrollers
- Amazon GameLift
Deploy and Scale Session-based Multiplayer Games
- Amazon Lex
Build Voice and Text Chatbots
- Amazon Macie
Amazon Macie classifies and secures your business-critical content.
- Amazon Managed Blockchain
Easily create and manage scalable blockchain networks
- Amazon MQ
Managed message broker service for Apache ActiveMQ
- Amazon Personalize

DynamoDB

CloudWatch

AWS Auto Scaling

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Find Services

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IoT

IoT 1-Click

Trigger AWS Lambda functions from simple devices

IoT Analytics

Collect, preprocess, store, analyze and visualize data of IoT devices

IoT Core

Connect Devices to the Cloud

IoT Device Defender

Connect Devices to the Cloud

IoT Device Management

Securely Manage Fleets as Small as One Device, or as Broad as Millions of Devices

IoT Events

Monitor device fleets for changes and trigger alerts to respond

IoT Greengrass

Deploy and run code on your devices

IoT SiteWise

Data driven decisions in Industrial operations

IoT Things Graph

Easily connect devices and web services to build IoT applications

AWS Marketplace Subscriptions

Digital catalog where you can find, buy, and deploy software

Amazon FreeRTOS

Amazon FreeRTOS is an IoT Operating System for Microcontrollers

Amazon Lex

Build Voice and Text Chatbots

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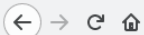
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AWS IoT is a managed cloud platform that lets connected devices - cars, light bulbs, sensor grids, and more - easily and securely interact with cloud applications and other devices.

Get started

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Connect and manage your devices

Connect devices to the cloud using the protocol that best fits your requirements - HTTP, MQTT, or WebSocket. Devices can communicate with each other even if they are using different protocols.

Learn more



Process and act upon device data

Filter, transform, and act upon data from devices on the fly, based on business rules. AWS IoT can be easily integrated with AWS services like Amazon DynamoDB, Amazon Kinesis, Amazon Machine Learning, and AWS Lambda.

Learn more



Read and set device state at any time

AWS IoT stores the latest state of a device so that it can be read or set anytime, even when the device is offline.

Learn more

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Monitor

Onboard

Manage

Secure

Act

Test

Software

Settings

Learn

Welcome to the AWS IoT Console

To get started, you can jump into the recommended starting points below, or explore other learning resources as needed.



See how AWS IoT works

Explore an interactive tutorial through the components of AWS IoT.

Start the tutorial

It takes 5 minutes



Connect to AWS IoT

Connect a device, a mobile or web app to AWS IoT in a few easy steps!

View connection options



Explore documentation

The AWS IoT documentation is a great resource for more details.

Go to documentation

• NOTE: The first time visit may these default pages, as you keep on working different section, the page look will vary

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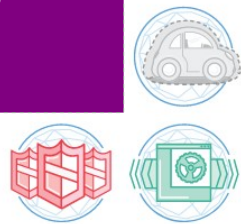
Act

Test

- As mentioned we are trying to give permissions for our device, so it all comes under the secure tab
- Click here

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- We are here to create policy so, Click here

Create

Card

AWS Policy Create

File Edit View History Bookmarks Tools Help

AWS IoT x +



https://ap-south-1.console.aws.amazon.com/iot/home?region=ap-south-1#/policyhub

Search



Services

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Support



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Policies

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Role Aliases

Authorizers

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Test

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Learn



You don't have any policies yet

AWS IoT policies give things permission to access AWS IoT resources (like other things, MQTT topics, or thing shadows).

[Learn more](#)

[Create a policy](#)

- NOTE: This page may not appear if you have already visited the AWS IoT page

AWS Policy

Create



- AWS IoT policies are JSON documents.
- They follow the same conventions as IAM policies.
- AWS IoT supports named policies so many identities can reference the same policy document.
- Named policies are versioned so they can be easily rolled back
- AWS IoT defines a set of policy actions that describe the operations and resources to which you can grant or deny access. For example:
 - **iot:Connect** represents permission to connect to the AWS IoT message broker
 - **iot:Subscribe** represents permission to subscribe to an MQTT topic or topic filter
 - **iot:GetThingShadow** represents permission to get a device's shadow

AWS Policy Create

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[Learn more](#)

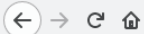
[Create a policy](#)

- NOTE: This page may not appear if you have already visited the AWS IoT page

AWS Policy Create

File Edit View History Bookmarks Tools Help

AWS IoT x +



https://ap-south-1.console.aws.amazon.com/iot/home?region=ap-south-1#/create/policy

Search



Services

Resource Groups



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Support



Create a policy

Create a policy to define a set of authorized actions. You can authorize actions on one or more resources (things, topics, topic filters). To learn more about IoT policies go to the [AWS IoT Policies documentation page](#).

Name

Add statements

Policy statements define the types of actions that can be performed by a resource.

Action

Please use commas to separate actions. e.g. `iot:Publish, iot:Subscribe`

Resource ARN

Specific resources could include client ID ARN, topic ARN, or topic filter ARN.

Effect

☐ Allow ☐ Deny

Remove

Add statement

- Give a meaningful name here
- This can be referred to even other devices if required
- So providing generic name would be good
- Since its our first time, lets name it as MyFirstDevicePolicy

AWS Policy Create

File Edit View History Bookmarks Tools Help

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Please use commas to separate actions. e.g. `iot:Publish, iot:Subscribe`

Resource ARN

Specific resources could include client ID ARN, topic ARN, or topic filter ARN.

Effect

☐ Allow ☐ Deny

Remove

Add statement

Create

AWS Policy

Create

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Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

Please use commas to separate actions. e.g. `iot:Publish, iot:Subscribe`

Resource ARN

Specific resources could include client ID ARN, topic ARN, or topic filter ARN.

Effect

☐ Allow ☐ Deny

Remove

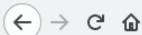
Add statement

Create

AWS Policy Create

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Resource ARN

Specific resources could include client ID ARN, topic ARN, or topic filter ARN.

Effect

☐ Allow ☐ Deny

Remove

Add statement

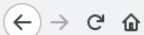
- Here you can specify the action needed by your device like connect, subscribe, publish etc.
- To start with lets select all which help of '*' wildcard

AWS Policy

Create

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AWS IoT x +



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Create a policy

Create a policy to define a set of authorized actions. You can authorize actions on one or more resources (things, topics, topic filters). To learn more about IoT policies go to the [AWS IoT Policies documentation page](#).

Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

iot:*

iot:Publish

iot:Subscribe

iot:Connect

iot:Receive

iot:UpdateThingShadow

iot:GetThingShadow

iot>DeleteThingShadow

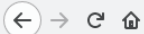
Add statement

Create

AWS Policy Create

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Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

I

iot:*
iot:Publish
iot:Subscribe
iot:Connect
iot:Receive
iot:UpdateThingShadow
iot:GetThingShadow
iot>DeleteThingShadow

Add statement

Create

AWS Policy Create

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Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

iot:*

Resource ARN

arn:aws:iot:ap-south-1:325436163766:topic/replaceWithATopic

Effect

☐ Allow ☐ Deny

Remove

Add statement

Create

AWS Policy Create

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Create a policy

Create a policy to define a set of authorized actions. You can authorize actions on one or more resources (things, topics, topic filters). To learn more about IoT policies go to the [AWS IoT Policies documentation page](#).

Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

iot:*

Resource ARN

arn:aws:iot:ap-south-1:325436163766:topic/replaceWithATopic

Effect

☐ Allow ☐ Deny

Remove

Add statement

- Bind the above actions with resource ARN
- Since its the first time lets keep it simple

AWS Policy Create

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https://ap-south-1.console.aws.amazon.com/iot/home?region=ap-south-1#/create/policy

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Support



Create a policy

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Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

iot:*

Resource ARN

arn:aws:iot:ap-south-1:325436163766:topic/replaceWithATdpic

Effect

☐ Allow ☐ Deny

Remove

Add statement

Create

AWS Policy Create

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Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Action

iot:*

Resource ARN

*

Effect

☐ Allow ☐ Deny

Remove

Add statement

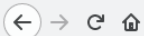
- Bind the above actions with resource ARN
- Since its the first time lets keep it simple
- You can use '*'; indicating allowing all the resources

AWS Policy

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Create a policy

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Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

iot:*

Resource ARN

*

Effect

☐ Allow ☐ Deny

Remove

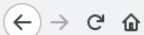
Add statement

Create

AWS Policy Create

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Create a policy

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Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

iot:*

Resource ARN

*

Effect



Allow



Deny

Add statement

- Select "Allow"

Create

AWS Policy Create

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Create a policy to define a set of authorized actions. You can authorize actions on one or more resources (things, topics, topic filters). To learn more about IoT policies go to the [AWS IoT Policies documentation page](#).

Name

MyFirstDevicePolicy

Add statements

Policy statements define the types of actions that can be performed by a resource.

Advanced mode

Action

iot:*

Resource ARN

*

Effect

☒ Allow ☐ Deny

Remove

Add statement

Create

AWS Policy Create

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Search policies



MyFirstDevicePolicy

...

Successfully created a policy.



Card

- Done. Your policy is ready to be used

AWS Policy Attach

The screenshot shows the AWS IoT console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The left sidebar contains navigation links for Monitor, Onboard, Manage, Secure (with sub-links for Certificates, Policies, CAs, Role Aliases, and Authorizers), Act, Test, Software, Settings, and Learn. The main content area is titled 'Policies' and features a search bar and a list of policies, including 'MyFirstDevicePolicy'. A purple callout box in the bottom right corner contains the text: '• Lets attach the policy to our certificates'.

AWS Policy

Create

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https://ap-south-1.console.aws.amazon.com/iot/home?region=ap-south-1#/certificatehub

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7c72dc344acf55c148...
INACTIVE

Create

Card

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7c72dc344
INACTIVE

Activate

Deactivate

Revoke

Accept transfer

Reject transfer

Revoke transfer

Start transfer

Attach policy

Attach thing

Download

Delete

Create

Card

AWS Policy

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https://ap-south-1.console.aws.amazon.com/iot/home?region=ap-south-1#/certificatehub

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7c72dc344
INACTIVE

...

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Download

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AWS IoT x +



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Support



Certificates

Search certificates

7c72dc344acf55c148...
INACTIVE

Attach policies to certificate(s)

Policies will be attached to the following certificate(s):

7c72dc344acf55c148e3f15bfdca14e922197d5bf3ead4994f2f73182b840d9e

Choose one or more policies

Search policies

☐ MyFirstDevicePolicy

[View](#)

0 policies selected

Cancel

Attach

AWS Policy Create

File Edit View History Bookmarks Tools Help

AWS IoT x +



https://ap-south-1.console.aws.amazon.com/iot/home?region=ap-south-1#/certificatehub

Search



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Certificates

Search certificates

7c72dc344acf55c148...
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☐ MyFirstDevicePolicy

[View](#)

0 policies selected

Cancel

Attach

AWS Policy Create

File Edit View History Bookmarks Tools Help

AWS IoT x +



https://ap-south-1.console.aws.amazon.com/iot/home?region=ap-south-1#/certificatehub



Search



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Certificates

Search certificates

7c72dc344acf55c148...
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Choose one or more policies

Search policies

☒ MyFirstDevicePolicy

[View](#)

1 policy selected

Cancel

Attach

AWS Policy Create

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Certificates

Search certificates

7c72dc344acf55c148...
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[View](#)

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AWS Policy Create

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7c72dc344acf55c148...
INACTIVE

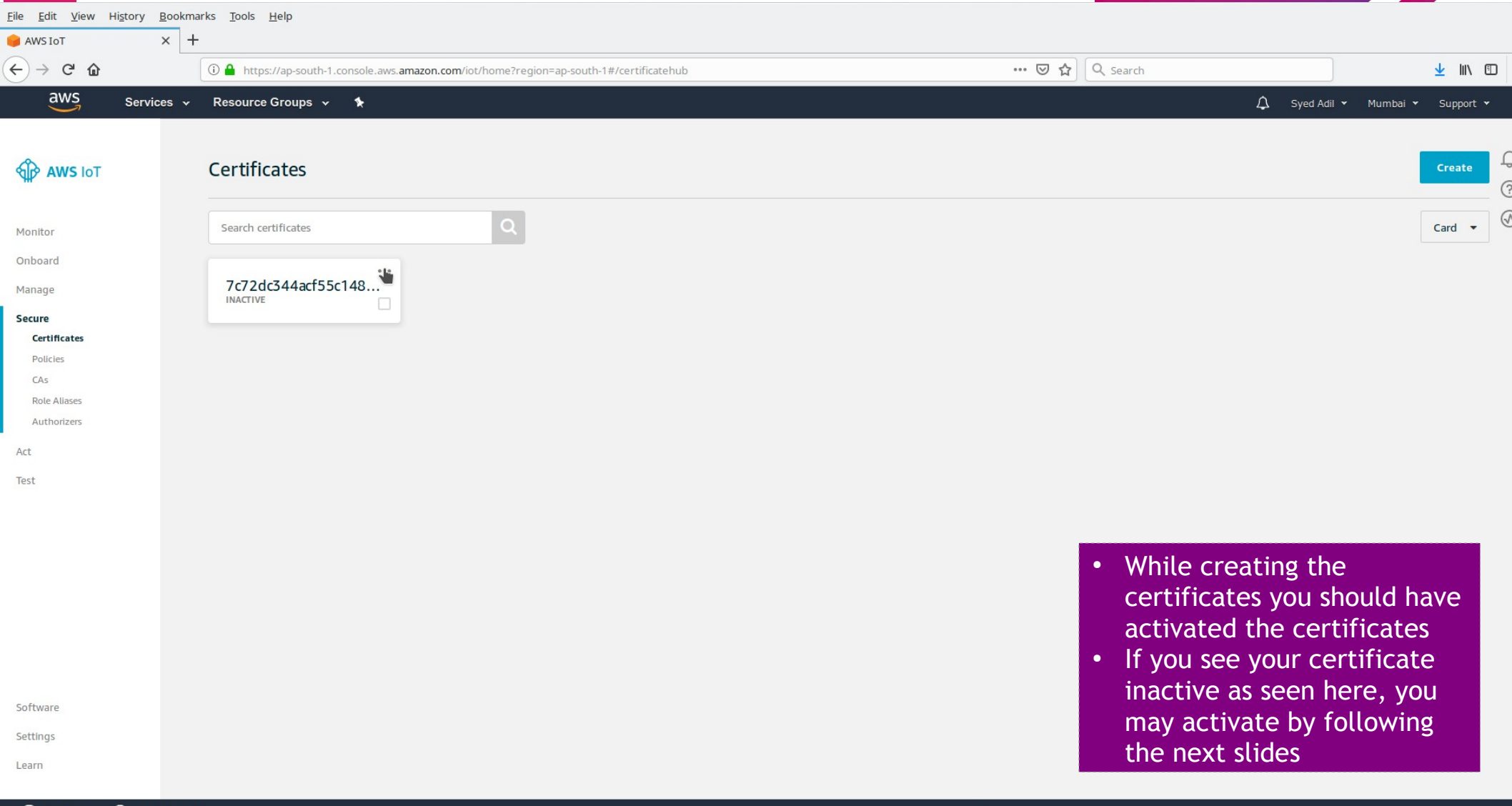
Successfully attached policy.

Card

- Done. Done attached the policy to the certificate

AWS Policy

Create



The screenshot shows the AWS IoT console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The left sidebar contains navigation links for Monitor, Onboard, Manage, Secure (Certificates, Policies, CAs, Role Aliases, Authorizers), Act, and Test. The main content area is titled 'Certificates' and features a search bar and a list of certificates. One certificate is visible with the ID '7c72dc344acf55c148...' and a status of 'INACTIVE'. A 'Create' button is located in the top right corner of the main content area.

Certificates

Search certificates

7c72dc344acf55c148...
INACTIVE

Create

Card

- While creating the certificates you should have activated the certificates
- If you see your certificate inactive as seen here, you may activate by following the next slides

AWS Policy

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7c72dc344
INACTIVE

Activate

Deactivate

Revoke

Accept transfer

Reject transfer

Revoke transfer

Start transfer

Attach policy

Attach thing

Download

Delete

Create

Card

AWS Policy

Create

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ACTIVE



Create

Card

Thank You