

AWS Overview

Team Emertxe



AWS Overview

Features



- A Platform for Virtually Every Use Case
- Deep Features and getting deeper by the day
- Security Recognized as Stronger than On-premises
- Deep Visibility into Compliance and Governance

AWS Overview

Reasons to Choose

- Flexible, Scalable and Reliable
 - Good Pricing, and interesting free tiers!
 - Good presence, with at least 16 geographic locations
 - Customization
 - Security
- and many more ...

AWS Overview

Services



AWS Overview

Services



Compute

Elastic Cloud Compute

Lambda

Database

DynamoDB

Relational DB Service

Amazon Redshift

Storage

S3

S3 Glacier

Storage Gateway

Networking

API Gateway

Virtual Private Cloud

Route 53

Admin & Security

ID & Access Management

Certificate Manager

Key Management

Analytic

Kinesis

QuickSight

Athena

Application Services

Alexa for Business

Workmail

SNS

Simple Workflow

Deploy & Manage

Cloud Formation

Cloud Watch

Code Trail

IoT

IoT Core

IoT Greengrass

Amazon FreeRTOS

AWS Console Overview

AWS Overview

Console



- Open your favorite browser and type (or click) the following URL

<https://aws.amazon.com/>

- If you don't have one, you may **create** one. You may follow [2_aws_account_creation.pdf](#) for reference if required

Note: There is a possibility of version updation in the cloud side, so some slides may vary!

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- Billing & Cost Management
- Security Credentials
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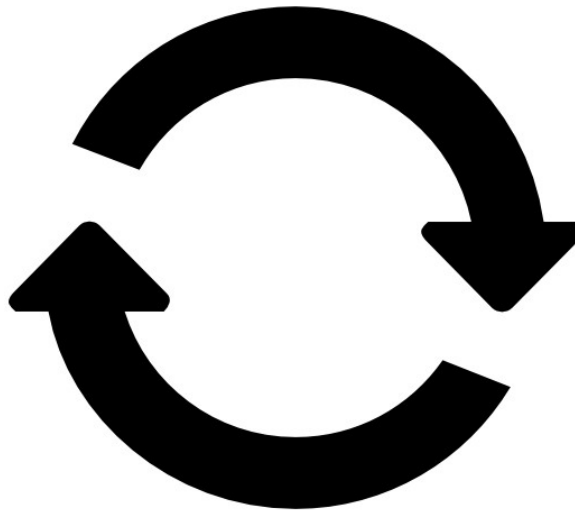
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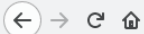
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AWS Management Console

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



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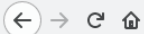
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- This is default console screen
- But as mentioned this could vary with different version

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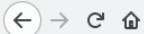
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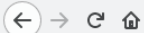


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- Default selected region
- This is about the AWS Global Infrastructure is based on Regions and Availability Zones
- Regions are physically separate and completely independent geographic area
- Each Region has multiple, isolated locations known as Availability Zones
- This idea is to ensure, at a given time, there will not be a infrastructure outage across the globe

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- US East (Ohio)**
- US West (N. California)
- US West (Oregon)
- Asia Pacific (Hong Kong)
- Asia Pacific (Mumbai)
- Asia Pacific (Seoul)
- Asia Pacific (Singapore)
- Asia Pacific (Sydney)
- Asia Pacific (Tokyo)
- Canada (Central)
- EU (Frankfurt)
- EU (Ireland)
- EU (London)
- EU (Paris)
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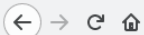
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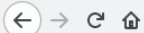
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2-3 minutes



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



Alerts

- Open issues 0
- Scheduled changes 0
- Other notifications 0

[View all alerts](#)

Access



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

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AWS Marketplace

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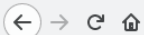
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AWS Overview Console

File Edit View History Bookmarks Tools Help

AWS Management Console X +



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

Search



Services ▾ Resource Groups ▾



Syed Adil ▾ Mumbai ▾ Support ▾

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

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Search



Services

Resource Groups



Syed Adil

Mumbai

Support

AWS Management Console

- Click here to get the list of service which, can be pinned here
- You may add most common used services as one-clickable

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Get started with simple wizards and automated workflows.

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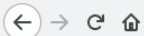
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Search



Services

Resource Groups



Syed Adil

Mumbai

Support

To customize one-click navigation shortcuts simply drag your services to and from the menu bar above.

Settings

Toolbar Items

Icons and Text

Animated Effects



- You may click and drag any of the icon seen here to the top

| |
|---------------------------|
| Alexa for Business |
| Amazon Chime |
| Amazon Comprehend |
| Amazon Connect |
| Amazon DocumentDB |
| Amazon Forecast |
| Amazon FreeRTOS |
| Amazon GameLift |
| Amazon Lex |
| Amazon Macie |
| Amazon Managed Blockchain |
| Amazon MQ |
| Amazon Personalize |
| Amazon Polly |
| Amazon Redshift |
| Amazon SageMaker |
| Amazon Sumerian |
| Amazon Textract |
| Amazon Transcribe |
| Amazon Translate |

| |
|----------------------------|
| CloudFormation |
| CloudFront |
| CloudHSM |
| CloudSearch |
| CloudTrail |
| CloudWatch |
| CodeBuild |
| CodeCommit |
| CodeDeploy |
| CodePipeline |
| CodeStar |
| Cognito |
| Config |
| Control Tower |
| Data Pipeline |
| Database Migration Service |
| DataSync |
| Device Farm |
| Direct Connect |
| Directory Service |

| |
|------------------------|
| Key Management Service |
| Kinesis |
| Kinesis Video Streams |
| Lambda |
| Lightsail |
| Machine Learning |
| Managed Services |
| MediaConnect |
| MediaConvert |
| MediaLive |
| MediaPackage |
| MediaStore |
| MediaTailor |
| Mobile Hub |
| MSK |
| Neptune |
| OpsWorks |
| Pinpoint |
| QuickSight |
| RDS |

AWS Overview Console

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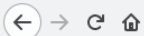
| | | |
|-------------------------------|-----------------------|-----------------------------------|
| Application Discovery Service | EC2 | Resource Access Manager |
| AppStream 2.0 | ECR | Route 53 |
| Artifact | ECS | S3 |
| Athena | EFS | S3 Glacier |
| AWS Amplify | EKS | Secrets Manager |
| AWS App Mesh | Elastic Beanstalk | Security Hub |
| AWS AppSync | Elastic Transcoder | Server Migration Service |
| AWS Auto Scaling | ElastiCache | Serverless Application Repository |
| AWS Backup | Elasticsearch Service | Service Catalog |
| AWS Budgets | EMR | Simple Email Service |
| AWS Cloud Map | FSx FSx | Simple Notification Service |
| AWS Cost Explorer | Global Accelerator | Simple Queue Service |
| AWS DeepLens | Ground Station | Snowball |
| AWS DeepRacer | GuardDuty | Step Functions |
| AWS Glue | IAM | Storage Gateway |
| AWS License Manager | Inspector | SWF |
| AWS Marketplace Subscriptions | IoT 1-Click | Systems Manager |
| AWS Migration Hub | IoT Analytics | Trusted Advisor |
| AWS Organizations | IoT Core | VPC |
| AWS RoboMaker | IoT Device Defender | WAF & Shield |
| AWS Single Sign-On | IoT Device Management | WorkDocs |
| AWS Transfer for SFTP | IoT Events | WorkLink |
| AWS Well-Architected Tool | IoT Greenrass | WorkMail |

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AWS Overview Console

File Edit View History Bookmarks Tools Help

AWS Management Console X +



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



Search



| | | |
|-------------------------------|-----------------------|-----------------------------------|
| AWS Amplify | EKS | Secrets Manager |
| AWS App Mesh | Elastic Beanstalk | Security Hub |
| AWS AppSync | Elastic Transcoder | Server Migration Service |
| AWS Auto Scaling | ElastiCache | Serverless Application Repository |
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| AWS Budgets | EMR | Simple Email Service |
| AWS Cloud Map | FSx FSx | Simple Notification Service |
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| AWS Well-Architected Tool | IoT Greengrass | WorkMail |
| Batch | IoT SiteWise | WorkSpaces |
| Certificate Manager | IoT Things Graph | X-Ray |
| Cloud9 | | |

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AWS Overview Console

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AWS Management Console X +



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Search



- Alexa for Business
- Amazon Chime
- Amazon Comprehend
- Amazon Connect
- Amazon DocumentDB
- Amazon Forecast
- Amazon FreeRTOS
- Amazon GameLift
- Amazon Lex
- Amazon Macie
- Amazon Managed Blockchain
- Amazon MQ
- Amazon Personalize
- Amazon Polly
- Amazon Redshift
- Amazon SageMaker
- Amazon Sumerian
- Amazon Textract
- Amazon Transcribe
- Amazon Translate
- API Gateway
- Application Discovery Service

- CloudFormation
- CloudFront
- CloudHSM
- CloudSearch
- CloudTrail
- CloudWatch
- CodeBuild
- CodeCommit
- CodeDeploy
- CodePipeline
- CodeStar
- Cognito
- Config
- Control Tower
- Data Pipeline
- Database Migration Service
- DataSync
- Device Farm
- Direct Connect
- Directory Service
- DynamoDB
- EC2

- Key Management Service
- Kinesis
- Kinesis Video Streams
- Lambda
- Lightsail
- Machine Learning
- Managed Services
- MediaConnect
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore
- MediaTailor
- Mobile Hub
- MSK
- Neptune
- OpsWorks
- Pinpoint
- QuickSight
- RDS
- Rekognition
- Resource Access Manager

Toolbar Items Icons and Text

Animated Effects

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AWS Overview Console

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AWS Management Console X +



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Search



Services

Resource Groups

Syed Adil Mumbai Support

To customize one-click navigation shortcuts simply drag your services to and from the menu bar above.

- Alexa for Business
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AWS Overview Console

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Settings

Toolbar Items Icons and Text

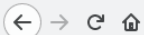
Animated Effects ☐

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Services

Resource Groups



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Support

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

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Register a domain

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Deploy a serverless microservice

With Lambda, API Gateway
2 minutes



Create a backend for your mobile app

With Mobile Hub
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Access resources on the go



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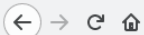
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Services

Resource Groups



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Support

AWS Management Console

- Resource group can be created and organized using this feature
- You may create groups based on Tagging or queries on a specific region

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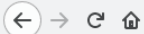
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AWS Overview Console

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AWS Management Console X +



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Search



Services

Resource Groups

- Saved groups
- Create a group
- Tag Editor

Syed Adil Mumbai Support

AWS Management Console

AWS services

Find Services

You can enter names, keywords or acronyms.

Example: Relational Database Service, database, RDS

All services

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Search



Services

Resource Groups



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Support

AWS Management Console

- List all the services available at AWS neatly organized based on the Applications
- Has an History panel of recently used services

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Services

Resource Groups

Syed Adil Mumbai Support

History

Console Home

Find a service by name or feature (for example, EC2, S3 or VM, storage).

Group A-Z



Compute

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



Robotics

AWS RoboMaker



Blockchain

Amazon Managed Blockchain



Satellite

Ground Station



Management & Governance

AWS Organizations
CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
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Systems Manager
Trusted Advisor
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AWS Well-Architected Tool
Personal Health Dashboard



Analytics

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EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue
MSK



Security, Identity, & Compliance

IAM
Resource Access Manager
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
Key Management Service
CloudHSM
Directory Service
WAF & Shield
Artifact
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Business Applications

Alexa for Business
Amazon Chime
WorkMail



End User Computing

WorkSpaces
AppStream 2.0
WorkDocs
WorkLink



Internet Of Things

IoT Core
Amazon FreeRTOS
IoT 1-Click
IoT Analytics
IoT Device Defender
IoT Device Management
IoT Events
IoT Greengrass
IoT SiteWise
IoT Things Graph



Game Development

Amazon GameLift

on the go

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close

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Services ^

Resource Groups v

Syed Adil Mumbai Support

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Group A-Z



Migration & Transfer

AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
AWS Transfer for SFTP
Snowball
DataSync



Media Services

Elastic Transcoder
Kinesis Video Streams
MediaConnect
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor



Mobile

AWS Amplify
Mobile Hub
AWS AppSync
Device Farm



AR & VR

Amazon Sumerian



Networking & Content Delivery

VPC
CloudFront
Route 53
API Gateway
Direct Connect
AWS App Mesh
AWS Cloud Map
Global Accelerator



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



Application Integration

Step Functions
Amazon MQ
Simple Notification Service
Simple Queue Service
SWF



AWS Cost Management

AWS Cost Explorer
AWS Budgets
AWS Marketplace Subscriptions



Customer Engagement

Amazon Connect
Pinpoint
Simple Email Service



Developer Tools

CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

close

on the go

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Group A-Z



Migration & Transfer

AWS Migration Hub
Application Discovery Service
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Media Services

Elastic Transcoder
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MediaStore
MediaTailor



Mobile

AWS Amplify
Mobile Hub
AWS AppSync
Device Farm



AR & VR

Amazon Sumerian



Networking & Content Delivery

VPC
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Machine Learning

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AWS Marketplace Subscriptions



Customer Engagement

Amazon Connect
Pinpoint
Simple Email Service



Developer Tools

CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

close

on the go

Management Console using the AWS Console
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Search



Services ^

Resource Groups v

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History

Console Home

Find a service by name or feature (for example, EC2, S3 or VM, storage).

Group A-Z



Migration & Transfer

AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
AWS Transfer for SFTP
Snowball
DataSync



Media Services

Elastic Transcoder
Kinesis Video Streams
MediaConnect
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor



Mobile

AWS Amplify
Mobile Hub
AWS AppSync
Device Farm



AR & VR

Amazon Sumerian



Networking & Content Delivery

VPC
CloudFront
Route 53
API Gateway
Direct Connect
AWS App Mesh
AWS Cloud Map
Global Accelerator



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



Application Integration

Step Functions
Amazon MQ
Simple Notification Service
Simple Queue Service
SWF



AWS Cost Management

AWS Cost Explorer
AWS Budgets
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Services

Resource Groups



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Support

AWS Management Console

- Bringing you this page (home page) when you click on the logo

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 resources on the go



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- The main page some helpful links to build and learn to build applications using the existing services

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Learn to build

Learn to deploy your solutions through step-by-step guides, labs, and videos. [See all](#)

Websites and Web Apps

3 videos, 3 tutorials, 3 labs



Machine Learning

3 videos, 3 tutorials, 3 labs



Storage

3 videos, 3 tutorials, 3 labs



Big Data

3 videos, 1 lab



Databases

3 videos, 3 tutorials, 3 labs



DevOps

3 videos, 3 tutorials, 3 labs



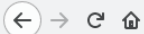
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Services Resource Groups

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AWS Management Console

AWS services

Find Services

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► All services

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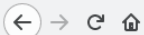
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All services

Compute

EC2
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ECR
ECS
EKS
Lambda
Batch
Elastic Beanstalk
Serverless Application Repository

Storage

S3
EFS
FSx
S3 Glacier
Storage Gateway
AWS Backup

Database

RDS
DynamoDB

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Robotics

AWS RoboMaker

Blockchain

Amazon Managed Blockchain

Satellite

Ground Station

Management & Governance

AWS Organizations
CloudWatch
AWS Auto Scaling

Machine Learning

Amazon SageMaker
Amazon Comprehend
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Amazon Transcribe
Amazon Translate
Amazon Personalize
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AWS DeepRacer

Analytics

Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight

Mobile

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Application Integration

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- A drop down showing all the services based on categories

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... Search



Database

RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift
Amazon DocumentDB

Migration & Transfer

AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
AWS Transfer for SFTP
Snowball
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CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services
Control Tower
AWS License Manager
AWS Well-Architected Tool
Personal Health Dashboard

Media Services

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Kinesis Video Streams
MediaConnect
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue
MSK

Security, Identity, & Compliance

IAM
Resource Access Manager
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
Key Management Service
CloudHSM
Directory Service
WAF & Shield
Artifact
Security Hub

AWS Cost Management

AWS Cost Explorer
AWS Budgets
AWS Marketplace Subscriptions

Amazon Connect
Pinpoint
Simple Email Service

Business Applications

Alexa for Business
Amazon Chime
WorkMail

End User Computing

WorkSpaces
AppStream 2.0
WorkDocs
WorkLink

Internet of Things

IoT Core
Amazon FreeRTOS
IoT 1-Click
IoT Analytics
IoT Device Defender
IoT Device Management
IoT Events
IoT Greengrass
IoT SiteWise
IoT Things Graph

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Services Resource Groups

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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

Compute

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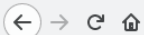
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- Its list all the existing ones alphabetically once you click here

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Example: Relational Database Service, database, RDS

- Alexa for Business
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

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AWS Auto Scaling

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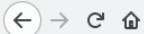
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Find Services

You can enter names, keywords or acronyms.

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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- Lets search for IoT Core service, as it is the point of interest right now

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AWS IoT x +



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Services

Resource Groups



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Support



AWS IoT

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



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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Services

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Support



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

• IoT Core main page

AWS Overview Console

File Edit View History Bookmarks Tools Help

AWS IoT x +



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

Search



Services

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Monitor
Onboard
Manage
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Test

- A tab which contains all the activities happening in the IoT Core
- Contains information like connection and its status, messages based on different protocols, type, directions, success rate and many more



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Search



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Monitor

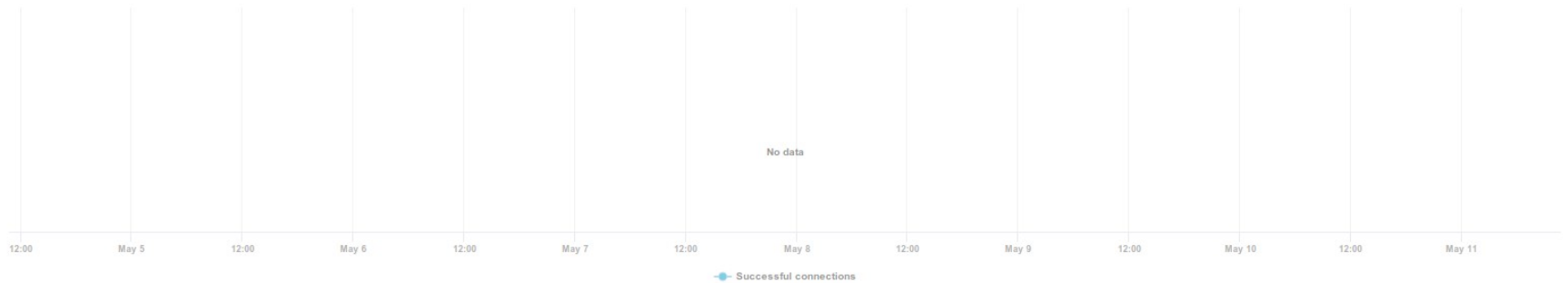
Sample period

One day

Time range

Week

Successful connections



Messages

| Protocol | Type | Direction |
|----------|---------|-----------|
| No data | No data | No data |

MQTT

HTTP

Connect

Ping

Publish

Inbound

Outbound

AWS Overview Console

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Services

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Monitor

Sample period

One day

Time range

Week

- Helps to setup a complete infrastructure from creating a device to testing it

12:00 May 5 12:00 May 6 12:00 May 7 12:00 May 8 12:00 May 9 12:00 May 10 12:00 May 11

Successful connections

Messages

Protocol

No data

Type

No data

Direction

No data

MQTT
HTTP

Connect
Ping
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Test

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Settings

Learn

Connect to AWS IoT



Configuring a device

Connect a device or your computer to AWS IoT using the connection wizard for AWS IoT Device SDKs.

Get started



AWS IoT Starter Kit

Browse AWS IoT Starter Kits that were made for connecting to AWS IoT and getting started with the service.

Browse starter kits

Did you know you can use the AWS SDK to work with data coming from your devices? [View the AWS SDKs](#)

AWS Overview Console

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

Search



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Monitor

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Learn

Connect to AWS IoT

- A link to manage our devices
- You may create the type of the device, is group which it belongs to and all



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



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You don't have any things yet

A thing is the representation of a device in the cloud.

[Learn more](#)

[Register a thing](#)

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Learn

- EveryAWS Overview related to security of the devices goes here,
- You may find section to create certificates and policies here



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You don't have any certificates yet

Certificates help things establish a secure connection.

[Learn more](#)

[Create a certificate](#)

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- Here we can create rules to our devices on how its going to act based of different triggers
- We may add actions to our devices which has to be taken once we receive our data



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[Create a certificate](#)

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

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You don't have any rules yet

Rules give your things the ability to interact with AWS and other web services. Rules are analyzed and actions are performed based on the messages sent by your things.

[Learn more](#)

[Create a rule](#)

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- An interface to test our device using pub / sub methods



You don't have any rules yet

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[Learn more](#)

[Create a rule](#)

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Connecting to Device Gateway...

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MQTT client

Connected as iotconsole-1557571786758-1

Subscriptions

[Subscribe to a topic](#)

[Publish to a topic](#)

Subscribe

Devices publish MQTT messages on topics. You can use this client to subscribe to a topic and receive these messages.

Subscription topic

Specify a topic to subscribe to, e.g. myTopic/1

Subscribe to topic

Max message capture

100

Quality of Service

- ☒ 0 - This client will not acknowledge to the Device Gateway that messages are received
- ☐ 1 - This client will acknowledge to the Device Gateway that messages are received

MQTT payload display

- ☒ Auto-format JSON payloads (improves readability)
- ☐ Display payloads as strings (more accurate)
- ☐ Display raw payloads (in hexadecimal)

Publish

Specify a topic and a message to publish with a QoS of 0.

Specify a topic to publish to, e.g. myTopic/1

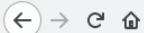
Publish to topic

```
1 {  
2   "message": "Hello from AWS IoT console"  
3 }
```

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



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MQTT client

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[Subscribe to a topic](#)

[Publish to a topic](#)

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Software

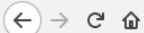
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Amazon FreeRTOS Device Software

Amazon FreeRTOS is an operating system for microcontrollers that makes it easy to securely connect IoT devices locally or to the cloud.

Configure download

SDKs



AWS IoT Device SDK

The AWS IoT Device SDK helps you to easily and quickly connect your hardware device to AWS IoT with the Device Gateway and Device Shadow.

View all SDKs



AWS SDKs

Simplify using AWS services, including AWS IoT, in your applications with an API tailored to your programming language or platform.

View all SDKs

Looking for a guided way to connect a device to AWS IoT? [Connect a device](#)

- A link which provides the some available software for our device development
- You will also find some SDKs here

Software

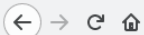
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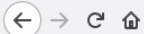
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Settings

Custom endpoint

DISABLED

This is your custom endpoint that allows you to connect to AWS IoT. Each of your Things has a REST API available at this endpoint. This is also an important property to insert when using an MQTT client or the AWS IoT [Device SDK](#).

We are provisioning a Device Gateway endpoint for your account. It may take a few minutes for the endpoint to be ready, after which you can connect devices to AWS IoT, publish/subscribe to topics, and access device shadows.

Endpoint

al61pc9okbq2a-ats.iot.ap-south-1.amazonaws.com

Check status

Logs

DISABLED

You can enable AWS IoT to log helpful information to CloudWatch Logs. As messages from your devices pass through the message rules engine, AWS IoT logs process events which can be helpful in troubleshooting.

Log group

Log group

Event-based messages

DISABLED

AWS IoT can send event-based messages to pre-determined MQTT topics when specific service events occur.

- Some settings related to our device like, endpoint for interaction, Message setting etc

Software

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



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Settings

Custom endpoint

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This is your custom endpoint that allows you to connect to AWS IoT. Each of your Things has a REST API available at this endpoint. This is also an important property to insert when using an MQTT client or the AWS IoT [Device SDK](#).

We are provisioning a Device Gateway endpoint for your account. It may take a few minutes for the endpoint to be ready, after which you can connect devices to AWS IoT, publish/subscribe to topics, and access device shadows.

Endpoint

al6lpc9okbq2a-ats.iot.ap-south-1.amazonaws.com

Check status

Logs

DISABLED

You can enable AWS IoT to log helpful information to CloudWatch Logs. As messages from your devices pass through the message broker and the rules engine, AWS IoT logs process events which can be helpful in troubleshooting.

Role

Level of verbosity

Disabled

Edit

Event-based messages

DISABLED

AWS IoT can send event-based messages to pre-determined MQTT topics when specific service events occur.

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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 AWS IoT console.

Tutorial

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

- Some tutorials and documentations on how to work with AWS IoT Core

AWS Overview Console

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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

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Learn

- Your device interface
- This is where we need to come to create a device



You don't have any things yet

A thing is the representation of a device in the cloud.

Learn more

Register a thing

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- A link to manage the device type



You don't have any things yet

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[Learn more](#)

[Register a thing](#)

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You don't have any thing types yet

Thing types help you organize, categorize, and search for your things.

[Learn more](#)

[Create a thing type](#)

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- A link to manage the device groups



You don't have any thing types yet

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[Create a thing type](#)

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



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You don't have any thing groups yet.

Groups help you organize your things in a way that makes sense to you

[Learn more](#)

[Create a thing group](#)

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- A link to manage the device billing group



You don't have any thing groups yet.

Groups help you organize your things in a way that makes sense to you

[Learn more](#)

[Create a thing group](#)

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You don't have any billing groups yet.

Groups help you organize your things to allocate costs

[Learn more](#)

[Create a billing group](#)

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- We may add set of remote operations called jobs that are sent to and executed on one or more devices connected to AWS IoT



You don't have any billing groups yet.

Groups help you organize your things to allocate costs

[Learn more](#)

[Create a billing group](#)

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Start a job for your devices

AWS IoT Device Management allows you to send files or deployments to devices.

[Learn more](#)

[Create a job](#)

Thank You