

Dynamo DB Practice

Step: create Dynamodb Table

aws

Search

[Alt+S]

Account ID: 2359-6906-1728

Asia Pacific (Mumbai)

Umakant

DynamoDB

Tables

Create table

Share your feedback on Amazon DynamoDB

Your feedback is an important part of helping us provide a better customer experience. Take this short survey to let us know how we're doing.

Share feedback

Create table

Table details [Info](#)

DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

Table name

This will be used to identify your table.

mytable

Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).

Partition key

The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

rollno

Number

1 to 255 characters and case sensitive.

Sort key - optional

You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.

student

String

1 to 255 characters and case sensitive.

Table settings

☒ Default settings

The fastest way to create your table. You can modify most of these settings after your table has been created. To modify these

☐ Customized settings

Use these advanced features to make DynamoDB work better for your needs.

CloudShell

Feedback

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The screenshot shows the Amazon DynamoDB console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and the region 'Asia Pacific (Mumbai)'. The main header shows 'DynamoDB' and 'Tables'. A blue banner at the top right contains a survey link: 'Share your feedback on Amazon DynamoDB'. Below this, the 'Tables (1)' section is visible, showing a table named 'mytable' with the following details:

Name	Status	Partition key	Sort key	Indexes	Replication Regions	Deletion protection	Favorite	Read capacity mode	Write capacity mode
mytable	Active	rollino (N)	student (S)	0	0	Off	☆	On-demand	On-demand

The table 'mytable' is currently active and has no indexes. The read and write capacity modes are set to 'On-demand'.

Step:- Create Ec2 Instance

AWS

Search

[Alt+S]

Account ID: 2359-6906-1728

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EC2

Instances

Launch an Instance

It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices.

Take a walkthrough

Do not show me this message again.

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name

newdynamo_instance

Add additional tags

Application and OS Images (Amazon Machine Image)

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

Search our full catalog including 1000s of application and OS images

Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

Debian

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Summary

Number of instances1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...
ami-02d26659f082cf299

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Cancel

Launch instance

Preview code

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

Free tier eligible

ami-02d26659f082cf299 (64-bit (x86))

ami-d80993e4a0b0cfef92 (64-bit (Arm))

Virtualization: hvm

ENA enabled: true

Root device type: ebs

Description

Ubuntu Server 24.04 LTS (HVM),EB5 General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture

AMI ID

Publish Date

Username

Verified provider

64-bit (x86)

ami-02d26659f082cf299

2025-08-21

ubuntu

Instance type

Get advice

Instance type

t3.micro

Family: t3

2 vCPU

1 GiB Memory

Current generation: true

On-Demand Linux base pricing: 0.0112 USD per Hour

On-Demand SUSE base pricing: 0.0112 USD per Hour

On-Demand Windows base pricing: 0.0204 USD per Hour

On-Demand Ubuntu Pro base pricing: 0.0147 USD per Hour

On-Demand RHEL base pricing: 0.04 USD per Hour

Free tier eligible

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Summary

Number of instances1

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t3.micro

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New security group

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1 volume(s) - 8 GiB

Cancel

Launch instance

Preview code

Network settings

Edit

Network

vpc-0869833a936b12338

Subnet

No preference (Default subnet in any availability zone)

Auto-assign public IP

Enable

Firewall (security groups)

Create security group

Select existing security group

We'll create a new security group called 'launch-wizard-5' with the following rules:

Allow SSH traffic from

Anywhere

0.0.0.0/0

Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Summary

Number of instances1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...
ami-02d26659f082cf299

Virtual server type (instance type)
t3.micro

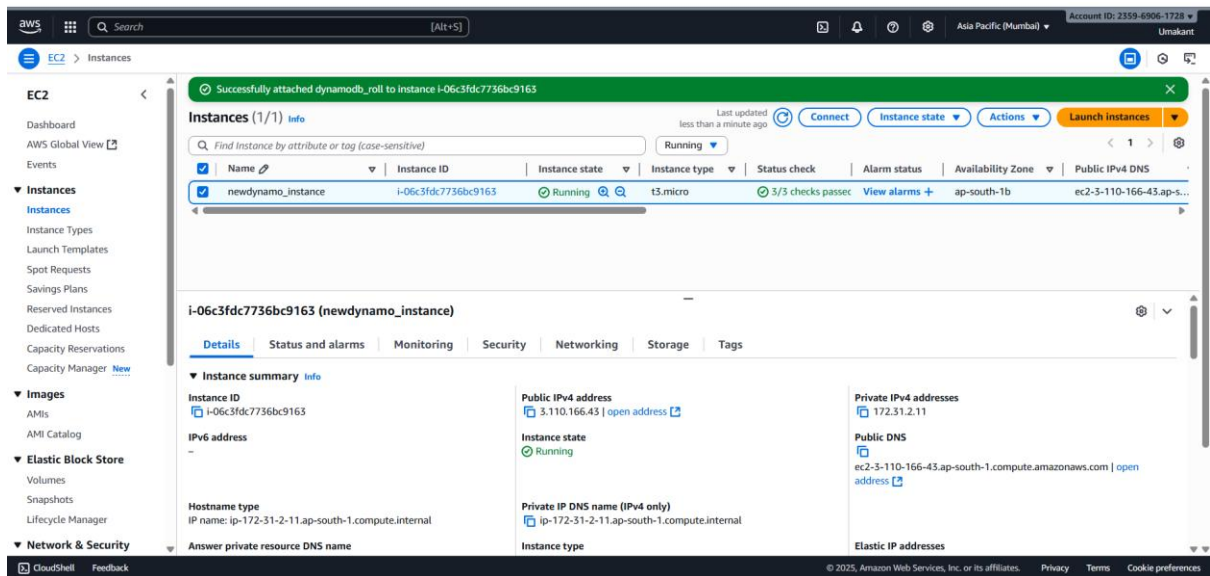
Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

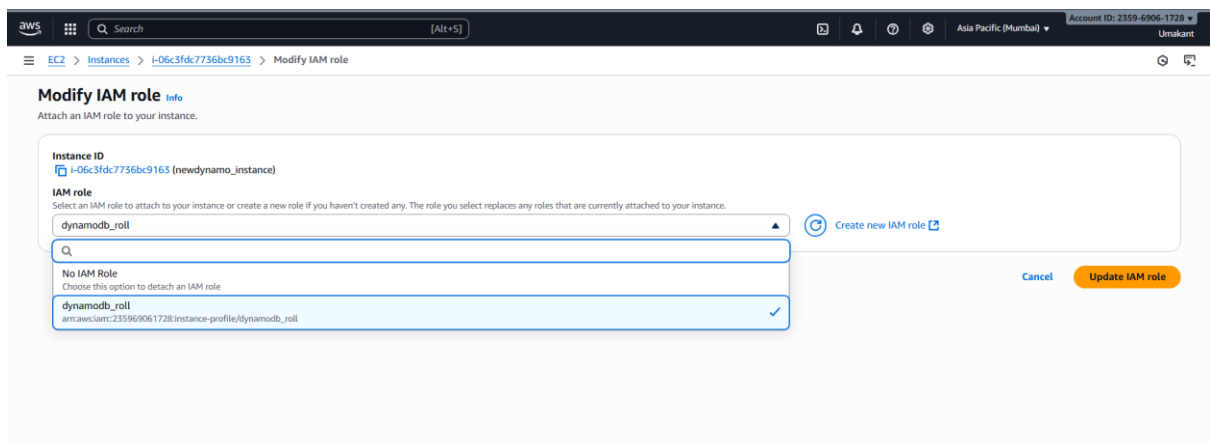
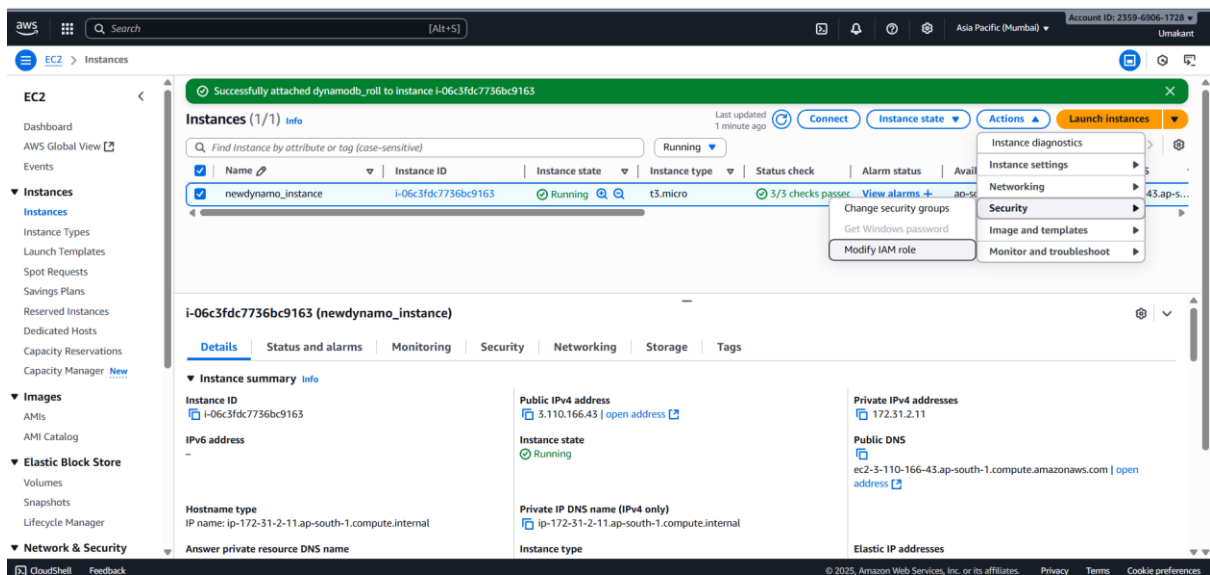
Cancel

Launch instance

Preview code

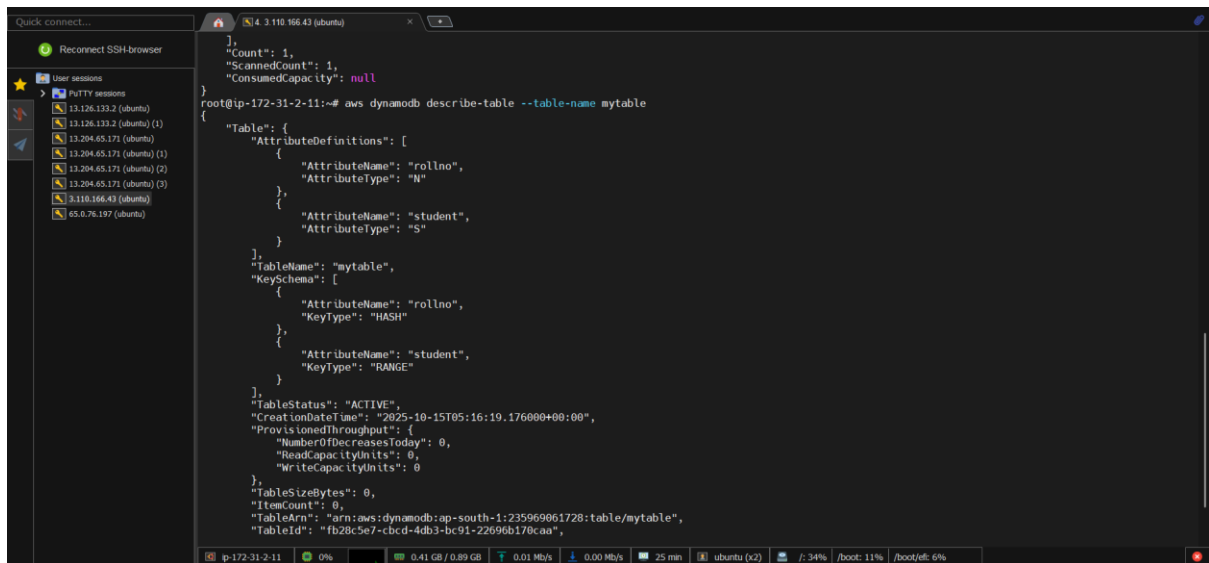


Step : Attach DynamoDbFullAccess role to ec2 instance



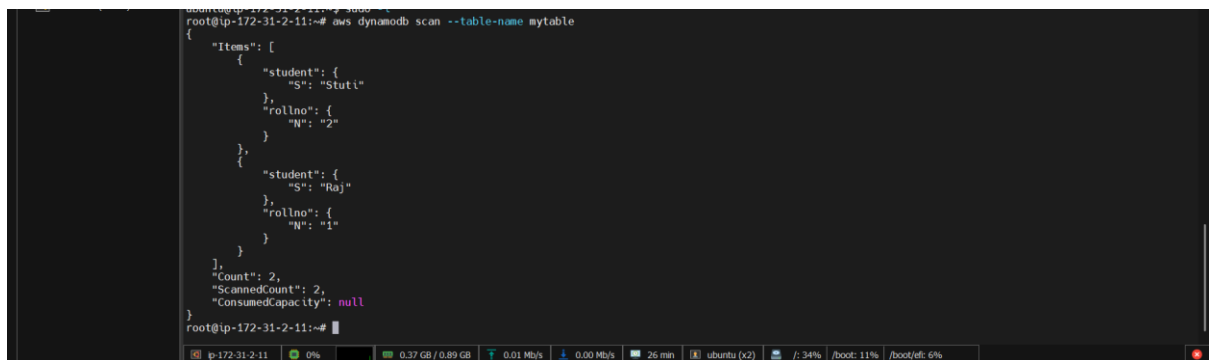
Step : scan, insert and describe dynamodb table in cli

-describe table



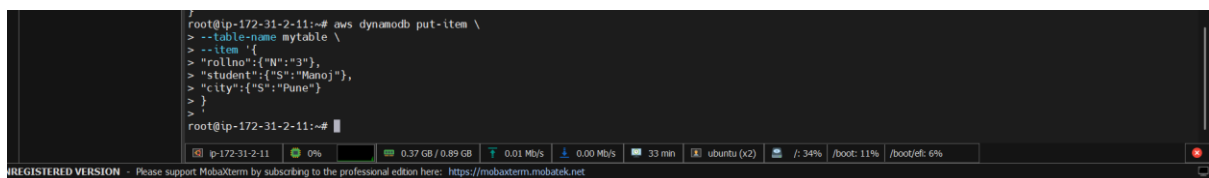
```
root@ip-172-31-2-11:~# aws dynamodb describe-table --table-name mytable
{
  "Table": {
    "AttributeDefinitions": [
      {
        "AttributeName": "rollno",
        "AttributeType": "N"
      },
      {
        "AttributeName": "student",
        "AttributeType": "S"
      }
    ],
    "TableName": "mytable",
    "KeySchema": [
      {
        "AttributeName": "rollno",
        "KeyType": "HASH"
      },
      {
        "AttributeName": "student",
        "KeyType": "RANGE"
      }
    ],
    "TableStatus": "ACTIVE",
    "CreationDateTime": "2025-10-15T05:16:19.176000+00:00",
    "ProvisionedThroughput": {
      "NumberOfDecreasesToday": 0,
      "ReadCapacityUnits": 0,
      "WriteCapacityUnits": 0
    },
    "TableSizeBytes": 0,
    "ItemCount": 0,
    "TableArn": "arn:aws:dynamodb:ap-south-1:235969061728:table/mytable",
    "TableId": "fb28c5e7-cbcd-4db3-bc91-22696b178caa"
  }
}
```

-scan table



```
root@ip-172-31-2-11:~# aws dynamodb scan --table-name mytable
{
  "Items": [
    {
      "student": {
        "S": "Stuti"
      },
      "rollno": {
        "N": "2"
      }
    },
    {
      "student": {
        "S": "Raj"
      },
      "rollno": {
        "N": "1"
      }
    }
  ],
  "Count": 2,
  "ScannedCount": 2,
  "ConsumedCapacity": null
}
```

-put item



```
root@ip-172-31-2-11:~# aws dynamodb put-item \
--table-name mytable \
--item '{
  "rollno": {"N": "3"},
  "student": {"S": "Manoj"},
  "city": {"S": "Pune"}
}'
{
  "TableName": "mytable",
  "Item": {
    "rollno": {
      "N": "3"
    },
    "student": {
      "S": "Manoj"
    },
    "city": {
      "S": "Pune"
    }
  }
}
```

```
root@ip-172-31-2-11:~# aws dynamodb scan --table-name mytable
{
  "Items": [
    {
      "city": {
        "S": "Pune"
      },
      "student": {
        "S": "Manoj"
      },
      "rollno": {
        "N": "3"
      }
    },
    {
      "city": {
        "S": "Stuti"
      },
      "rollno": {
        "N": "2"
      }
    },
    {
      "city": {
        "S": "Raj"
      },
      "rollno": {
        "N": "1"
      }
    }
  ],
  "Count": 3,
  "ScannedCount": 3,
  "ConsumedCapacity": null
}
root@ip-172-31-2-11:~#
```

-get item

```
root@ip-172-31-2-11:~# aws dynamodb get-item \
> --table-name mytable \
> --key '{"rollno":{"N":"3"}'
{
  "Item": {
    "city": {
      "S": "Pune"
    },
    "rollno": {
      "N": "3"
    },
    "student": {
      "S": "Manoj"
    }
  }
}
root@ip-172-31-2-11:~#
```

Dynamodb Poratl item list view

The screenshot shows the AWS Management Console interface for a DynamoDB table named 'mytable'. The left sidebar contains navigation links for Dashboard, Tables, Explore items, PartiQL editor, Backups, Exports to S3, Imports from S3, Integrations, Reserved capacity, and Settings. The main area displays the 'Explore items' view for 'mytable'. It includes a search bar, a table of items, and a summary of the scan operation.

rollno (Number)	student (String)	city
3	Manoj	Pune
2	Stuti	Stuti
1	Raj	Raj

Step- create an item in dynamodb UI

Notifications

FormJSON view

Create item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

Attributes

Add new attribute

Attribute name	Value	Type	Remove
rollno - Partition key	5	Number	
student - Sort key	Trupti	String	
mobile	9970768090	Number	Remove

CancelCreate item

DynamoDB

Dashboard

Tables

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

Integrations

Reserved capacity

Settings

DAX

Clusters

Subnet groups

Parameter groups

Events

mytable

Table - mytable

All attributes

Filters - optional

RunReset

Completed - Items returned: 3 - Items scanned: 3 - Efficiency: 100% - RCUs consumed: 2

Table: mytable - Items returned (5)

Scan started on October 15, 2025, 11:40:16

	rollno (Number)	student (String)	city	gender	mobile
<input type="checkbox"/>	5	Trupti			9970768090
<input type="checkbox"/>	4	Jay		Male	
<input type="checkbox"/>	3	Manoj	Pune		
<input type="checkbox"/>	2	Stuti			
<input type="checkbox"/>	1	Raj			