

Dynamo DB Practice

Step: create Dynamodb Table

The screenshot shows the 'Create table' wizard in the AWS DynamoDB console. The table name is set to 'mytable'. The partition key is 'rollno' (Number type) and the sort key is 'student' (String type). The table has 'On-demand' provisioned capacity.

Name	Type	Value
Partition key	rollno	Number
Sort key	student	String
Provisioned capacity	On-demand	

Table settings

Default settings

Customize settings

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The screenshot shows the 'Tables' page in the AWS DynamoDB console. The table 'mytable' is listed, showing it is active, has a partition key 'rollno', a sort key 'student', and is provisioned with 'On-demand' capacity.

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

Step:- Create Ec2 Instance

Screenshot of the AWS EC2 Launch an instance wizard.

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

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

Recent AMIs: 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)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

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

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture: 64-bit (x86)

AMI ID: ami-02d26659fd82cf299

Publish Date: 2025-08-21

Username: ubuntu

Verified provider

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

Network settings

Network: vpc-0869833936b12338

Subnet: No preference (Default subnet in any availability zone)

Auto-assign public IP: Enabled

Firewall (security groups): Create 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 of 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 instances: 1

Software Image (AMI): Canonical, Ubuntu, 24.04, amd6... [read more](#)

Virtual server type (instance type): t3.micro

Firewall (security group): New security group

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

Launch instance

Preview code

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The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like Dashboard, AWS Global View, Events, Instances (selected), Images, Elastic Block Store, and Network & Security. The main content area displays a table of instances. A green banner at the top says "Successfully attached dynamodb_roll to instance i-06c3fdc7736bc9163". The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. One row is selected, showing "newdynamo_instance" with Instance ID "i-06c3fdc7736bc9163", State "Running", Type "t3.micro", Status "3/3 checks passed", Availability Zone "ap-south-1b", and Public IPv4 DNS "ec2-3-110-166-43.ap-s...". Below the table, a detailed view for "i-06c3fdc7736bc9163 (newdynamo_instance)" is shown with tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. The Details tab shows Instance ID "i-06c3fdc7736bc9163", Public IPv4 address "3.110.166.43", Instance state "Running", Hostname type "IP name: ip-172-31-2-11.ap-south-1.compute.internal", Private IP DNS name (IPv4 only) "ip-172-31-2-11.ap-south-1.compute.internal", and Instance type "t3.micro". The Security tab is currently selected.

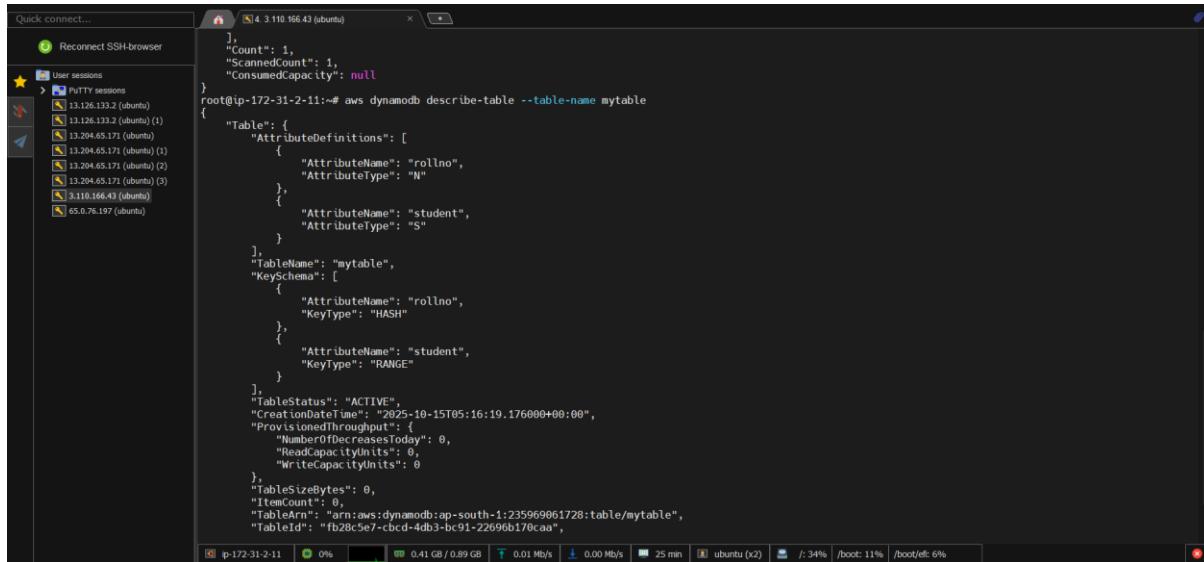
Step : Attach DynamoDbFullAccess role to ec2 instance

This screenshot is similar to the previous one, showing the EC2 Instances page with a single instance named "newdynamo_instance". The Actions menu is open on the right side, and the "Modify IAM role" option is highlighted with a red box. The rest of the interface is identical to the first screenshot.

This screenshot shows the "Modify IAM role" dialog box. At the top, it says "Modify IAM role" and "Attach an IAM role to your instance." Below that, it shows the instance ID "i-06c3fdc7736bc9163 (newdynamo_instance)". The "IAM role" section contains a dropdown menu where "dynamodb_roll" is selected. There's also a "Create new IAM role" button. At the bottom right, there are "Cancel" and "Update IAM role" buttons. The URL in the browser bar is "EC2 > Instances > i-06c3fdc7736bc9163 > Modify IAM role".

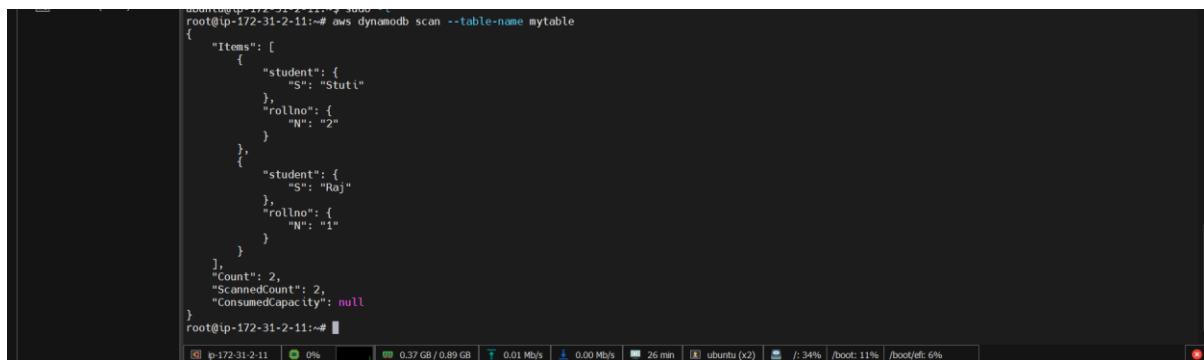
Step : scan, insert and describe dynamodb table in cli

-describe table



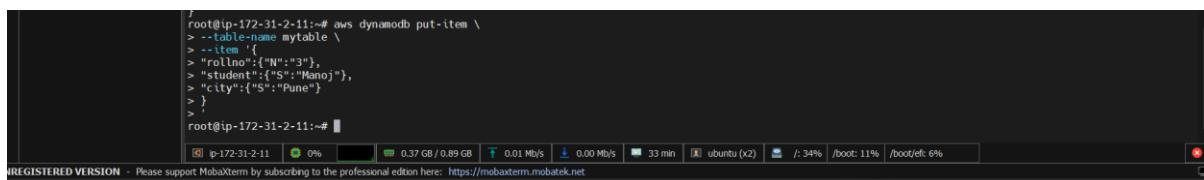
```
[root@ip-172-31-2-11:~# aws dynamodb describe-table --table-name mytable
{
    "Table": {
        "AttributeDefinitions": [
            {
                "AttributeName": "rollno",
                "AttributeType": "N"
            },
            {
                "AttributeName": "student",
                "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": "fb28c5e7-7cbd-4db3-bc91-22696b170caa",
        "StreamArn": null
    }
}
ip-172-31-2-11 0% 0.41 GB / 0.89 GB 0.01 Mb/s 0.00 Mb/s 25 min ubuntu (x2) /: 34% /boot: 11% /boot/efi: 6%
```

-scan table



```
[root@ip-172-31-2-11:~# aws dynamodb scan --table-name mytable
{
    "Items": [
        {
            "student": {
                "S": "Stuti"
            },
            "rollno": {
                "N": "2"
            }
        },
        {
            "student": {
                "S": "Ra"
            },
            "rollno": {
                "N": "1"
            }
        }
    ],
    "Count": 2,
    "ScannedCount": 2,
    "ConsumedCapacity": null
}
root@ip-172-31-2-11:~#
ip-172-31-2-11 0% 0.37 GB / 0.89 GB 0.01 Mb/s 0.00 Mb/s 25 min ubuntu (x2) /: 34% /boot: 11% /boot/efi: 6%
```

-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"} \
> }'
root@ip-172-31-2-11:~#
ip-172-31-2-11 0% 0.37 GB / 0.89 GB 0.01 Mb/s 0.00 Mb/s 33 min ubuntu (x2) /: 34% /boot: 11% /boot/efi: 6%
```

```

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

```

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-get item

```

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

```

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Dynamodb Portl item list view

The screenshot shows the AWS DynamoDB console interface. On the left, there's a navigation sidebar with links like Dashboard, Tables, Explore items, PartiQL editor, Backups, Exports to S3, Imports from S3, Integrations, Reserved capacity, and Settings. Under 'Tables', 'mytable' is selected. The main area shows the 'Explore items' section for 'mytable'. It includes a search bar, a table selection dropdown set to 'mytable', and a 'Scan' button. Below that, there are sections for 'Select a table or index' (set to 'Table - mytable') and 'Select attribute projection' (set to 'All attributes'). A 'Completed' message indicates 3 items returned. At the bottom, there's a table titled 'Table: mytable - Items returned (3)' showing the following data:

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

Step- create an item in dynamodb UI

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

[Cancel](#) [Create item](#)

DynamoDB

Dashboard Tables **Explore items** Backups Exports to S3 Imports from S3 Integrations Reserved capacity Settings

▼ DAX Clusters Subnet groups Parameter groups Events

Explore items

aws [Alt+S] Account ID: 2359-6906-1728 Umakant

DynamoDB > Explore items > mytable

mytable

Select a table or index Table - mytable Select attribute projection All attributes

▶ Filters - optional

[Run](#) [Reset](#)

Completed - Items returned: 3 - Items scanned: 3 - Efficiency: 100% - RCU 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			