

YESHWANTH CHAUHAN

DYNAMODB- here is the link please refer to the given link

<https://enlear.academy/working-with-aws-dynamodb-table-aws-ec2-8b3689841f49>

In this project, we made a DynamoDB database and gave it permission through IAM roles
-DynamoDB-read-only-access

The image consists of two screenshots of the AWS Management Console, specifically the DynamoDB section.

The top screenshot shows the "Tables" page in the DynamoDB console. It displays a list of tables with the following columns: Name, Status, Partition key, Sort key, Indexes, Deletion protection, Read capacity mode, Write capacity mode, Total size, and Table class. A single table named "comp_table" is listed with a status of "Active". The table has a partition key of "type (S)" and a sort key of "-". It is provisioned with auto scaling (5) for both read and write capacity. The total size is 0 bytes, and the table class is "Standard".

The bottom screenshot shows the "comp_table" details page. It includes a warning banner about protecting the table from accidental writes and deletes using Point-in-time recovery (PITR). The "General information" section shows the partition key type as "String", the sort key as "-", and the capacity mode as "Provisioned". The table status is "Active". The "Items summary" section shows 0 items and 0 bytes of table size. The "Table capacity metrics" section shows a loading status.

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The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'DynamoDB' service is selected, and the 'comp_table' table is chosen. The 'Scan or query items' section is active, showing a 'Scan' operation. The table contains 6 items, and a notification indicates that the scan is completed and read capacity units consumed are 0.5.

Item
type
japaanese dep
awodep
coffeedep
chaldep
secdep
itdep

The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'EC2' service is selected, and the 'Instances' page is displayed. A list of instances is shown, with the 'dynamodbinst...' instance highlighted. The 'Launch instances' button is visible.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs	Monitoring	Security group
dynamodbinst...	i-0c4c78d2322a4c2b2	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-54-175-95-149.co...	54.175.95.149	-	-	disabled	default

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The image is a composite screenshot showing three different environments:

- Top: AWS IAM Console**
 - Browser: Google Chrome, URL: `us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles`
 - Page: IAM Roles. A table lists 12 roles, including `EC2_DynamoIO` (selected), `AWSServiceRoleForApplicationAutoScaling_DynamoDBTable`, `AWSServiceRoleForRDS`, `AWSServiceRoleForBackup`, `rdbs-monitoring-role`, `AWSServiceRoleForAutoScaling`, `AWSServiceRoleForElasticLoadBalancing`, `aws-elasticbeanstalk-service-role`, `aws-elasticbeanstalk-ec2-role`, `AWSServiceRoleForAmazonElasticFileSystem`, `AWSBackupDefaultServiceRole`, `Amazon_EventBridge_Invoke_Action_On_EC2_Instance_1386153678`, `StorageGatewayBucketAccessRole16781787256880.5284030532143593`, `AWSServiceRoleForVPCTransitGateway`, `AWSServiceRoleForElasticBeanstalk`, `AWSServiceRoleForGlobalAccelerator`, `AWSServiceRoleForSupport`, and `AWSServiceRoleForTrustedAdvisor`.
- Middle: Windows Taskbar**
 - System tray: 33°C, Mostly sunny, 17:16, 24-03-2023.
 - Taskbar icons: Search, File Explorer, Microsoft Store, Edge, Teams, Firefox, VS Code, Docker, Spotify, WhatsApp, and others.
- Bottom: Terminal Window**
 - Shell: `ec2-user@ip-172-32-0-108~`
 - OS: Microsoft Windows [Version 10.0.22000.1696]
 - Path: `C:\Users\Yesh>cd downloads`
 - Command: `C:\Users\Yesh\Downloads>ssh -i "NEWKEYS.pem" ec2-user@ec2-54-175-93-149.compute-1.amazonaws.com`
 - Output:


```

The authenticity of host 'ec2-54-175-93-149.compute-1.amazonaws.com (54.175.93.149)' can't be established.
ECDSA key fingerprint is SHA256:2Ks2yYf8e/B8LBUMtsJLJ0sersraCC/yCtJAVHT2sg.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-175-93-149.compute-1.amazonaws.com,54.175.93.149' (ECDSA) to the list of known hosts.
Last login: Fri Mar 24 11:14:50 2023 from ec2-18-206-107-29.compute-1.amazonaws.com

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     _(_)_ _/  _/
    _/_/_/_/_/  _/  Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-32-0-108 ~]$ aws dynamodb scan --table-name comp_table --region us-east-1
{
  "Count": 6,
  "Items": [
    {
      "type": {
        "S": "awadep"
      }
    },
    {
      "type": {
        "S": "coffeedep"
      }
    },
    {
      "type": {
        "S": "itdep"
      }
    },
    {
      "type": {
        "S": "japanese dep"
      }
    }
  ]
}
```

```
ec2-user@ip-172-32-0-108 ~$ aws dynamodb scan --table-name comp_table --region us-east-1
{
  "Count": 6,
  "Items": [
    {
      "type": {
        "S": "awadep"
      }
    },
    {
      "type": {
        "S": "coffeedep"
      }
    },
    {
      "type": {
        "S": "itdep"
      }
    },
    {
      "type": {
        "S": "japanese dep"
      }
    },
    {
      "type": {
        "S": "secedep"
      }
    },
    {
      "type": {
        "S": "chaidep"
      }
    }
  ],
  "ScannedCount": 6,
  "ConsumedCapacity": null
}
```

```
ec2-user@ip-172-32-0-108 ~$ aws dynamodb put-item --table-name comp_table --item '{"type":{"S": "Mediterranean"}}' --region us-east-1
Error: awscli: error: argument --item is required
[ec2-user@ip-172-32-0-108 ~]$ aws dynamodb put-item --table-name comp_table --item '{"type":{"S": "Mediterranean"}}' --region us-east-1
Error: awscli: error: argument --item is required
[ec2-user@ip-172-32-0-108 ~]$ aws dynamodb put-item --table-name comp_table --item '{"type":{"S": "Mediterranean"}}' --region us-east-1
An error occurred (AccessDeniedException) when calling the PutItem operation: User: arn:aws:sts::471963814578:assumed-role/EC2_DynamoRO/i-0c4c78d2322a4c2b2 is not authorized to perform: dynamodb:PutItem on resource: arn:aws:dynamodb:us-east-1:471963814578:table/comp_table because no identity-based policy allows the dynamodb:PutItem action
[ec2-user@ip-172-32-0-108 ~]$
```