**Prerequisites:**

Before we get started, you should have the following:

An EC2 instance that you can connect to via SSH.

A Security Group for the Redis Cluster that will allow inbound and outbound traffic on port 6379 (default Redis port).

**Creating Amazon Elasticache cluster for Redis:**

    1. Go to [Amazon ElastiCache](https://console.aws.amazon.com/elasticache/home.).

    2. Click on Redis Cluster.

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Click on Create Redis Cluster.



Choose "Configure and create a new cluster". For Cluster mode choose "Disabled" as we are doing it for the demo but for larger workloads choose "Enabled".When cluster mode is enabled, data is automatically partitioned across multiple shards or node groups, each with its own primary node and up to 5 read replicas. This enables the system to handle large workloads and provide high availability, even in the event of a node failure.

**Give the cluster a name for example: redis-clstr-01**

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In Cluster settings, you can select the engine version, port, and Node type. There are various types of nodes available, you can select them as per the preference of your workload. Here we are selecting cache.t2.micro.

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For the Number of replicas, you can put up to 5 read replicas under the single primary node

Connectivity, you can create a new Subnet group under the VPC here the cluster will run, and you can manage the subnets also in which the nodes will be created.

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In Security Tab, you can configure the network and data security of your cluster. Do not enable any things.

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Rest settings are related to backup and maintenance which can be chosen as per the  preference of the workload model. After the Review, Click on Create.

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Finally, after successful creation, you can check the details of your Cluster. Copy the Primary Endpoint and Port, from here as these will be used to access the Redis Cluster.