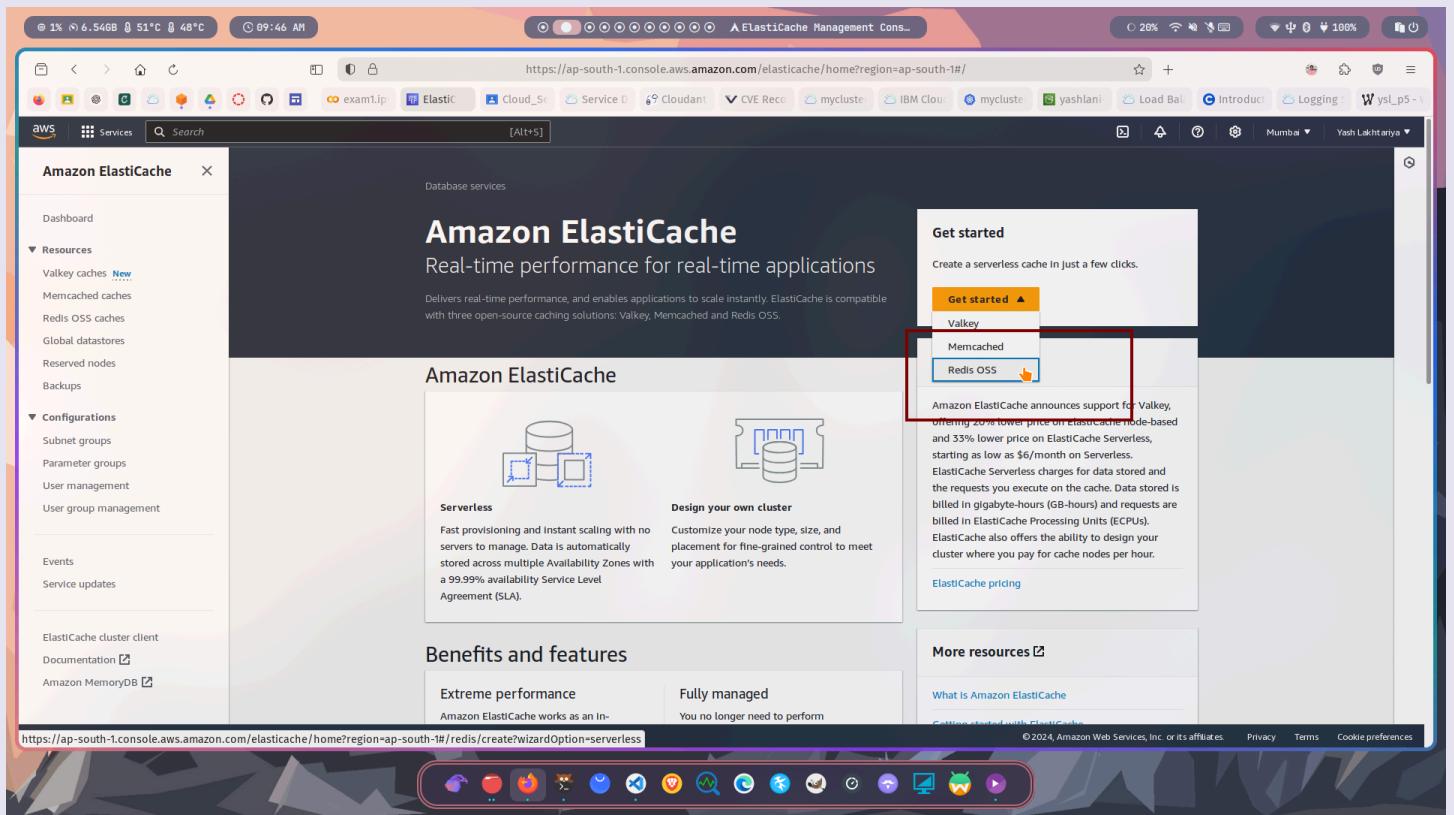


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Aim : Create Redis OSS Cache on AWS ElastiCache.

Steps and screenshots :

1. Create Elastic cache service



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The screenshot shows the 'Cluster settings' step of the 'Create Redis OSS cache' wizard. It includes a promotional message about Amazon ElastiCache announcing Valkey starting as low as \$6/month. The 'Deployment option' section has two choices: 'Serverless - new' (unchecked) and 'Design your own cache' (checked). The 'Creation method' section has three choices: 'Easy create' (unchecked), 'Cluster cache' (checked), and 'Restore from backup' (unchecked). A red box highlights the 'Design your own cache' option under 'Deployment option'.

The screenshot continues the 'Create Redis OSS cache' wizard. In the 'Location' section, the 'AWS Cloud' option (checked) is highlighted with a red box. Below it, there are sections for 'Multi-AZ' (checkbox unchecked) and 'Auto-failover' (checkbox unchecked). A note at the bottom states: 'Disabling ElastiCache Multi-AZ on your cluster reduces your fault tolerance. In the unlikely event of an Availability Zone failure or loss of network connectivity, your cluster will become unavailable.' A red box highlights the 'AWS Cloud' location option.

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The screenshot shows the AWS ElastiCache Management Console at <https://ap-south-1.console.aws.amazon.com/elasticsearch/home?region=ap-south-1#/redis/create?wizardOption=serverless>. The 'Cluster settings' section is highlighted with a red box. It includes fields for Engine version (7.1), Port (6379), Parameter groups (default.redis7), Node type (cache.t2.micro), and Number of replicas (0). A note indicates that Multi-AZ cannot be enabled with 0 replicas. The 'Subnet group settings' section below is also visible.

The screenshot shows the AWS ElastiCache Management Console at <https://ap-south-1.console.aws.amazon.com/elasticsearch/home?region=ap-south-1#/redis/create?wizardOption=serverless>. The 'Subnet group settings' section is highlighted with a red box. It includes options for 'Choose existing subnet group' (radio button) and 'Create a new subnet group' (radio button, selected). The 'Create a new subnet group' section contains fields for Name (yashlalu-biju-subnet), Description (optional), and VPC ID (vpc-06e30c5bf80152480). A note indicates that for Multi-AZ mode, at least two subnets from two Availability Zones must be chosen. The 'Selected subnets (3)' table is shown at the bottom.

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The screenshot shows the AWS ElastiCache Management Console for creating a Redis cluster. A modal window titled 'Manage subnets' is open, displaying a table of subnets from the 'ap-south-1a' availability zone. The 'Choose' button at the bottom right of the modal is highlighted with a red box.

Availability Zone	Subnet ID	Subnet name	CIDR block (IPv4)
ap-south-1a	subnet-04de51459fb12e78	-	172.31.32.0/20
ap-south-1b	subnet-0adfd36bd1531893	-	172.31.0.0/20
ap-south-1c	subnet-00a4a54510f13184a	-	172.31.16.0/20

The screenshot shows the continuation of the Redis cluster creation wizard. The 'Selected subnets' section is displayed, showing one subnet from the 'ap-south-1a' availability zone. The 'Next' button at the bottom right is highlighted with a red box.

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The screenshot shows the AWS ElastiCache Management Console interface for creating a Redis OSS cache. The URL in the browser is <https://ap-south-1.console.aws.amazon.com/elasticsearch/home?region=ap-south-1#/redis/create?wizardOption=serverless>. The page is titled "Advanced settings".

Step 1: Cluster settings

Step 2: Advanced settings

Step 3: Review and create

Advanced settings

Security

Use the following section to configure network security and data security for your cluster.

Encryption at rest

Enable
Enables encryption of data stored on disk.

Encryption in transit

Enable
Enables encryption of data that moves between the service and client.

Selected security groups (0)

A security group acts like a firewall that controls network access to your clusters.

Group ID

No selected security groups

Add security groups by choosing the Manage button.

Manage

Backup

You can use backups to restore a cluster or seed a new cluster. The backup consists of the cluster's metadata, along with all of the data in the cluster.

CloudShell **Feedback**

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Also create SNS topic to get notifications

The screenshot shows the AWS SNS homepage. A modal window titled "Create topic" is open, prompting the user to enter a "Topic name". The input field contains "yashlanu-nakamu-topic". Below the input field is a yellow "Next step" button, which is highlighted with a red box. To the right of the modal, there is a "Pricing" section with information about pay-as-you-go pricing. At the bottom of the page, there is a decorative footer bar featuring various AWS service icons.

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The screenshot shows the 'Create topic' page in the AWS SNS console. In the 'Details' section, under the 'Type' dropdown, 'Standard' is selected, which is highlighted with a red box. The 'FIFO (first-in, first-out)' option is also shown with its details. Below the type selection, there are fields for 'Name' (yashlanu-nakamu-topic) and 'Display name - optional' (My Topic). At the bottom, there's an 'Encryption - optional' section and a 'Create topic' button.

The screenshot shows the 'Topics' page in the AWS SNS console. A green success message box states 'Topic yashlanu-nakamu-topic created successfully. You can create subscriptions and send messages to them from this topic.' This message is also highlighted with a red box. Below the message, the 'yashlanu-nakamu-topic' details are displayed, including its ARN and Type (Standard). The 'Subscriptions' tab is selected, showing a table with one row and a 'Create subscription' button. The navigation bar on the left includes 'Dashboard', 'Topics' (which is selected), 'Subscriptions', and 'Mobile' (with sub-options 'Push notifications' and 'Text messaging (SMS)').

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The screenshot shows the AWS ElastiCache Management Console for creating a new Redis cluster. The URL is <https://ap-south-1.console.aws.amazon.com/elasticsearch/home?region=ap-south-1#/redis/create?wizardOption=serverless>. The 'Backup' section is highlighted with a red box around the 'Enable automatic backups' checkbox. This section also includes a note that ElastiCache will automatically create a daily backup of a set of replicas.

The screenshot shows the AWS ElastiCache Management Console for creating a new Redis cluster. The URL is <https://ap-south-1.console.aws.amazon.com/elasticsearch/home?region=ap-south-1#/redis/create?wizardOption=serverless>. The 'Topic for Amazon SNS notification' input field is highlighted with a red box. This section also includes a note that choose an SNS topic from the list or enter the Amazon Resource Name (ARN) for an existing topic. If no topic is chosen, no notifications are sent. The input field contains the ARN: arn:aws:sns:ap-south-1:73035462491:yashlanu-nakamu-topic.

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The screenshot shows the AWS ElastiCache Management Console for creating a Redis cluster. The page title is "ElastiCache Management Cons...". The URL is <https://ap-south-1.console.aws.amazon.com/elasticsearch/home?region=ap-south-1#/redis/create?wizardOption=serverless>. The interface includes a top navigation bar with various AWS services like CloudWatch, Lambda, and CloudFront. Below the navigation is a search bar and a "Services" dropdown.

The main content area is titled "Maintenance" and contains settings for maintenance windows and SNS topics. It also includes sections for "Logs" (Slow logs and Engine logs) and "Tags" (with a note that none have been created). At the bottom right of this section is a red-bordered "Create" button.

At the very bottom of the screen, there is a decorative footer banner featuring various AWS service icons.

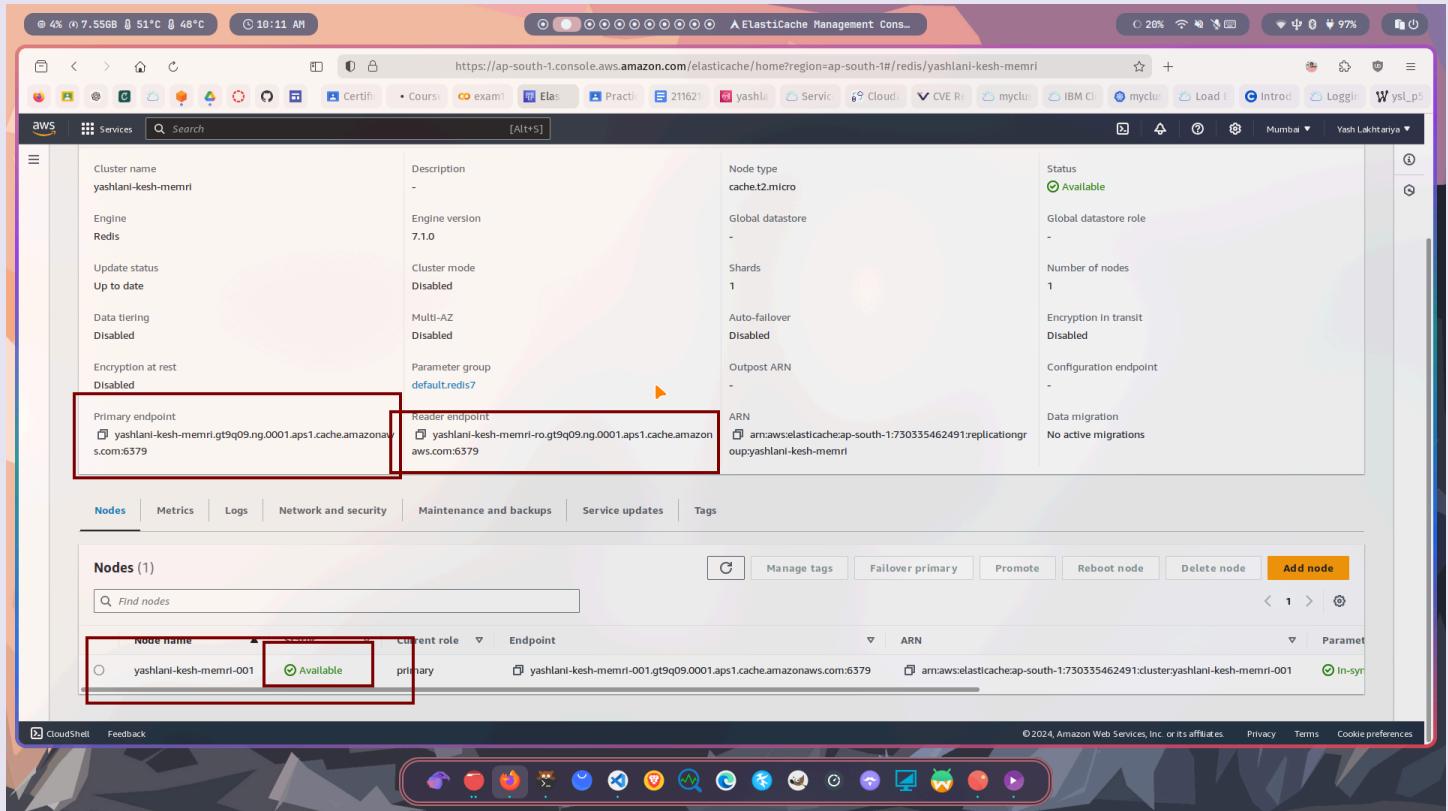
The screenshot shows the AWS ElastiCache Management Console displaying the list of Redis OSS caches. The URL is <https://ap-south-1.console.aws.amazon.com/elasticsearch/home?region=ap-south-1#/redis>. The page header indicates "The cluster was created successfully." A green banner at the top right features a "Create Valkey cache" button.

The main content area is titled "Redis OSS caches (1)" and includes a search bar and a "Create Redis OSS cache" button. A table lists the single cache entry:

Cache name	Status	Description	Engine version	Configuration	Created date
yashlani-kesh-memr1	Creating	-	7.1.0	cachet2.micro	October 14, 2024, 10:03:13 (UTC+05:30)

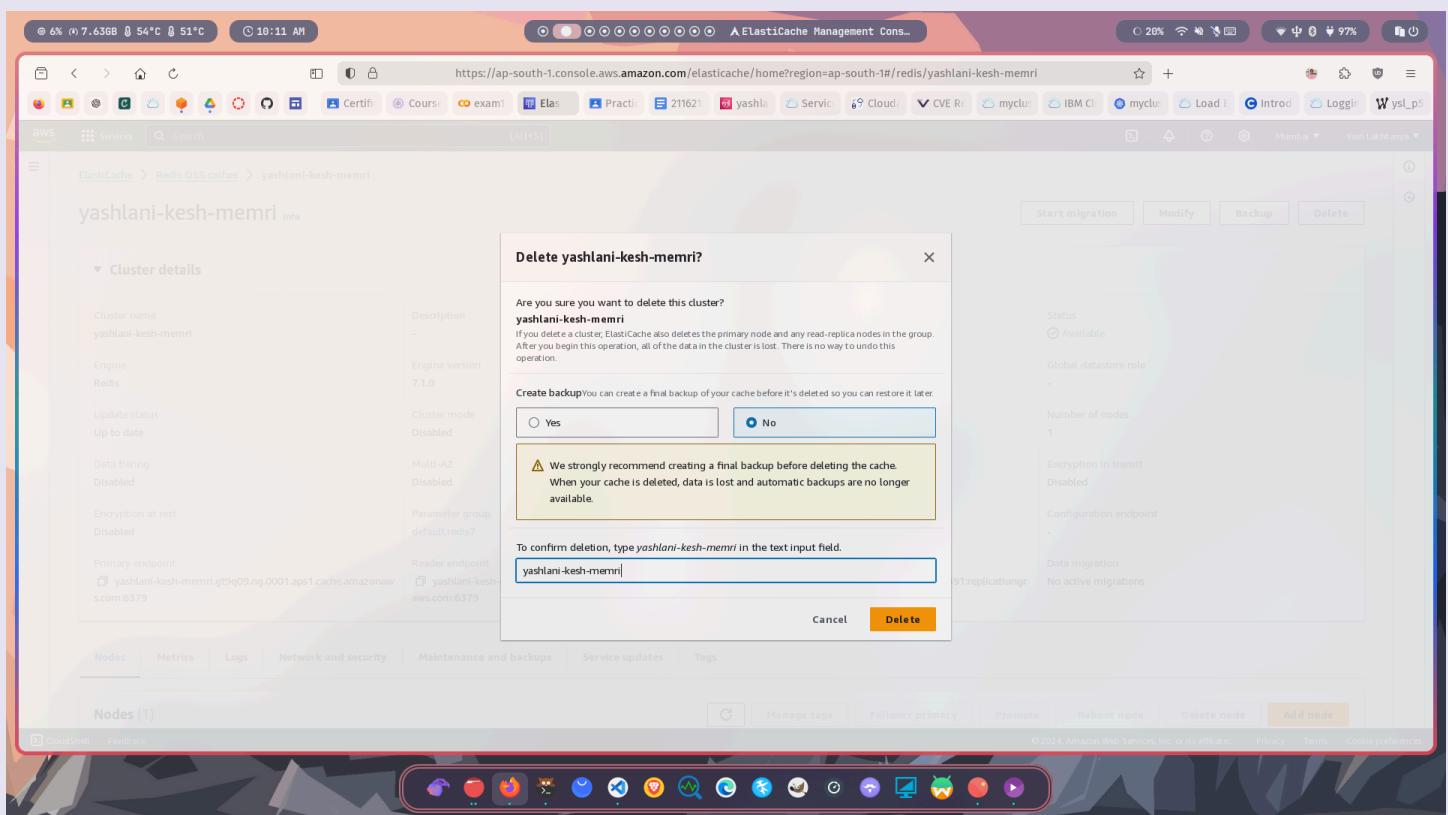
At the bottom of the screen, there is a decorative footer banner featuring various AWS service icons.

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The screenshot shows the AWS ElastiCache Management Console for a Redis cluster named "yashlani-kesh-memri". The cluster is in the "Available" status with one node. Key details include:

- Cluster name:** yashlani-kesh-memri
- Engine:** Redis
- Update status:** Up to date
- Data tiering:** Disabled
- Encryption at rest:** Disabled
- Primary endpoint:** yashlani-kesh-memri.gt9q09.ng.0001.apsl.cache.amazonaws.com:6379
- Reader endpoint:** yashlani-kesh-memri-ro.gt9q09.ng.0001.apsl.cache.amazonaws.com:6379
- Node type:** cache.t2.micro
- Engine version:** 7.1.0
- Cluster mode:** Disabled
- Multi-AZ:** Disabled
- Parameter group:** default.redis7
- Global datastore:** -
- Shards:** 1
- Auto-failover:** Disabled
- Outpost ARN:** -
- ARN:** arn:aws:elasticache:ap-south-1:730335462491:replicationgroup:yashlani-kesh-memri
- Status:** Available
- Global datastore role:** -
- Number of nodes:** 1
- Encryption in transit:** Disabled
- Configuration endpoint:** -
- Data migration:** No active migrations



The screenshot shows the AWS ElastiCache Management Console with a modal dialog titled "Delete yashlani-kesh-memri?" asking if the user wants to delete the cluster. The dialog includes a warning about data loss and a backup option. The cluster details are visible in the background.

Delete yashlani-kesh-memri?

Are you sure you want to delete this cluster? **yashlani-kesh-memri**

If you delete a cluster, ElastiCache also deletes the primary node and any read-replica nodes in the group. After you begin this operation, all of the data in the cluster is lost. There is no way to undo this operation.

Create backup You can create a final backup of your cache before it's deleted so you can restore it later.

Yes No

⚠ We strongly recommend creating a final backup before deleting the cache. When your cache is deleted, data is lost and automatic backups are no longer available.

To confirm deletion, type **yashlani-kesh-memri** in the text input field.

yashlani-kesh-memri

Cancel **Delete**