

# MayaNAS on AWS

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## Cache Disk

MayaNAS requires cache disk to be attached and configured before creating ZFS storage pool over high-latency S3 object storage. The cache disk can be configured as

Purpose	Size
ZIL Log device (recommended)	1.5 times Instance RAM size
Bcache Cache device	Size of the expected workset
L2ARC Read Cache	Twice the instance RAM size

## Backing Disk

MayaNAS supports creating ZFS storage pool on multiple S3 object storage directly. Also traditional AWS EBS disks can be used too.

## Virtual IP address

To provide virtual IP address for HA operation assign private IP address that counts as secondary IP address to the instance. The address has to be within the network subnet and that means MayaNAS instances have to be in the same zone.

## IAM Role

MayaNAS requires a IAM role to be attached the running instances with sufficient permissions to manipulate disk attachments for proper sharing, fencing, and also storage read-write access to object storage. It also needs sufficient permission to float the virtual IP across multiple instances. The policy of such IAM role requires following permissions.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "VisualEditor0",
      "Effect": "Allow",
      "Action": [
        "ec2:DetachVolume",
        "ec2:AttachVolume",
        "ec2:RebootInstances",
        "ec2:DescribeInstances",
        "ec2:DetachNetworkInterface",
        "s3:Delete*",
        "s3:Get*",
        "s3:CreateBucket",
        "ec2:AssignPrivateIpAddresses",
        "s3:List*",
        "ec2:DescribeVolumes",
        "ec2:AttachNetworkInterface",
        "ec2:UnassignPrivateIpAddresses",
        "ec2:AssociateAddress",
        "s3:Put*"
      ],
      "Resource": "*"
    }
  ]
}
```



The Resource selection can be limited to mayanas\* if instances are created with common tags Ex: mayanas

Update MayaNAS instances with the newly created IAM role before proceeding to Getting Started .

## Change default GUI password

MayaNAS deployed from AWS Marketplace will automatically use the instance name as the password for the Web GUI.

If needed change the MayaNAS Administration GUI **admin** to something random by running

```
# /opt/mayastor/web/genrandpass.sh
```

Or to set your own password

```
# /opt/mayastor/web/changepass.sh
Login name (default admin):
Login password:
Password again:
```

And then restart the web server for password changes to take effect

```
# /opt/mayastor/web/stop

# /opt/mayastor/web/start
```

# Connect to MayaNAS Web Console

Now you can proceed with High-Availability setup using the **Getting Started** wizard from Administration Web console available on <http://<MayaNAS1-ip>:2020>



MAYASCALE STORAGE SERVER

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**My Server**

**MayaScale Storage Server:**

- My Server
- Configure Server
- Manage Volumes & Pools
- Manage NFS shares
- Manage SMB shares
- Manage Snapshots
- Manage Replication
- Manage Failover
- Add or remove Mappings
- Add or remove Hosts
- Manage iSCSI operations
- Manage Cloud Storage
- View Disks

**MayaScale Server Wizards:**

- Getting Started
- Create Mayastor volume
- Create Volume Group
- Create Raid Group
- Create ZFS Storage Pool
- Create Cloud Storage
- Create Application server
- Map a volume

**MayaScale Getting Started**

**Welcome to MayaScale**

This wizard helps you configure MayaScale for the first time.

Before MayaScale can be properly configured, your storage devices must be physically attached and correctly configured as specified by the device and operating system vendor.

To begin MayaScale configuration, click Next.



To avoid public network exposure of port 2020 it is recommended to use ssh tunneling with port forwarding as follows

```
ssh -i ~/.ssh/MayaNAS.pem ec2-user@<MayaNAS1-public-ip> -L 2020:localhost:2020
```

Then access web console as <http://localhost:2020>

Proceed to [Configure MayaNAS](#)