

MayaScale on AWS

MayaScale utilizes instances with local NVMe devices and provides robust NVMe over Fabrics platform to clients that support NVMe/TCP. Deploy MayaScale in 2-node HA configuration if the NVMe devices are temporary storage devices to safe guard against data loss in the event of interruption.

To configure High Availability operation for Mayascale

- [Virtual IP address](#)
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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 Mayascale instances have to be in the same zone.

IAM Role

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

Change default GUI password

If needed change the MayaScale Administration GUI default password which is the instance name (starting i-) 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 Mayascale Web Console

Now you can proceed with High-Availability setup using the **Getting Started** wizard from Administration Web console available on <http://<mayascale1-ip>:2020>



MAYASCALE STORAGE SERVER

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The screenshot shows the MayaScale web console interface. On the left is a sidebar with a 'MayaScale Storage Server' section containing options like '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', and 'View Disks'. Below this is a 'MayaScale Server Wizards' section with options like 'Getting Started', 'Create Mayastor volume', 'Create Volume Group', 'Create Raid Group', 'Create ZFS Storage Pool', 'Create Cloud Storage', 'Create Application server', and 'Map a volume'. The main content area is titled 'My Server' and displays the 'MayaScale Getting Started' wizard. The wizard has a green header and a white body. It says 'Welcome to MayaScale' and features the Azure logo. A text box explains that the wizard helps configure MayaScale for the first time and that storage devices must be properly configured. At the bottom, it says 'To begin MayaScale configuration, click Next.' and has 'Next' and 'Cancel' buttons.



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

```
ssh -i ~/.ssh/mayascale.pem ec2-user@<mayascale1-public-ip> -L 2020:localhost:2020
Then access web console as http://localhost:2020
```

Next proceed to [Configure MayaScale](#)