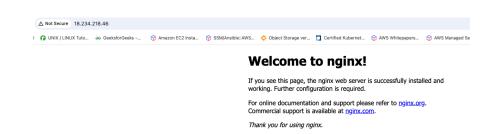
SERVER MIGRATION USING AWS APPLICATION MIGRATION SERVICE

STEP 1:

- Launch an EC2 instance using the below details
 - o AMI = Amazon Linux 2
 - o Subnet = Public
 - o User Data
 - #!/bin/bash sudo yum update -y sudo amazon-linux-extras install nginx1 -y sudo systemctl enable nginx sudo systemctl start nginx
 - o Tag your instance
 - o Security Group: Port 80 and 22
 - o Launch with a key pair.
 - o Once the instance is ready, copy public IP on a web browser and confirm if you can see the ngnix welcome page.
 - o SSH into the server and create a test file and test directory

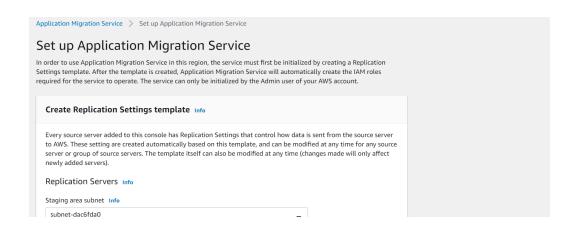


o SSH into the server and create a test file and test directory

STEP 2:

- Initialize MGN and Create Replication settings template the 1st setup step (for 1st time using MGN is to initialize the service)

- o Switch to MGN on the AWS console and click **Get Started**. this will prompt you to initialize the service.
- click on Set up service to Initialize and Create a Replication Settings template.
- Subnet = Public subnet (Preferably in the same VPC as source instance to avoid troubleshooting networking or creating peering connections)
- o Instance type = t2.micro
- Security Group = Always use Application Migration Service security group



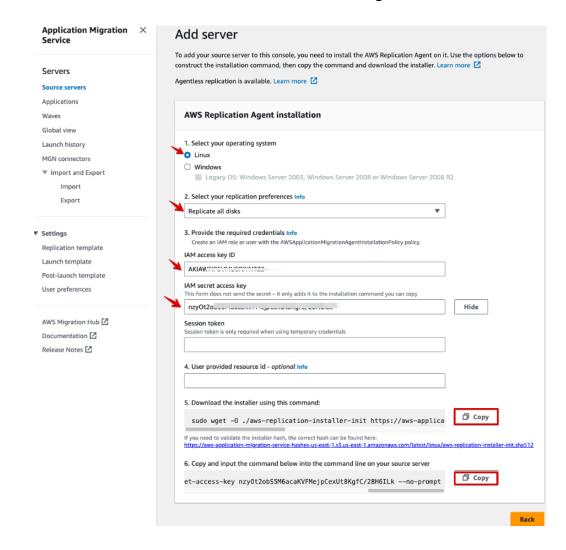
 If your replication settings template is already created, you can make changes by going into settings.

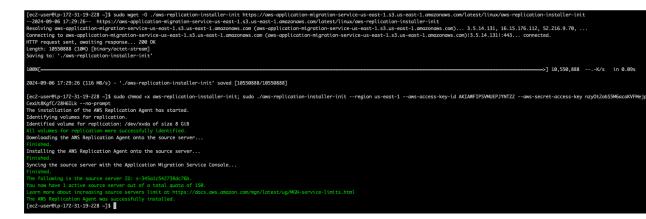
o Add a Source Server.

In order to add source servers,

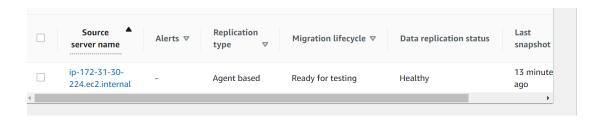
- On the MGN console, navigate to Source servers and click on Add server. this will open window to help generate the agent installer based on your O.S
 - Select Operating system: Linux
 - select your replication preferences: Replicate all disks
 - provide Access key / Secret Keys of a user with appropriate permissions
 - copy the generate commands on the console (5) and (6) and run on your ec2-instance.

This downloads and installs the Agent on the server.





 After Running the commands, we will find the source server will appear on the console like below. Give it some time for replication to complete and the Migration life cycle shows Ready for testing.

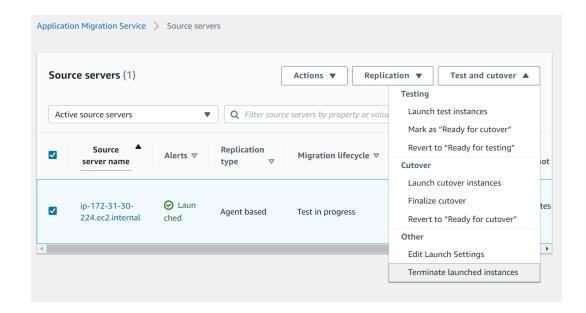


STEP 3: Edit Launch settings

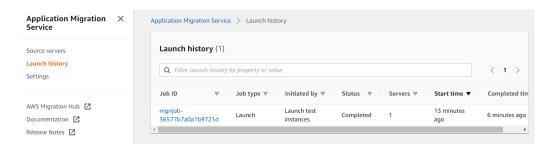
- o Go to MGN, select the server, click on Test and cutover and click on edit launch settings.
- o Make all changes in the launch template on Networking and Security groups
- o Create a new version of the template
- o Select Launch template and set the default version to the latest version

STEP 4: Launch test instance

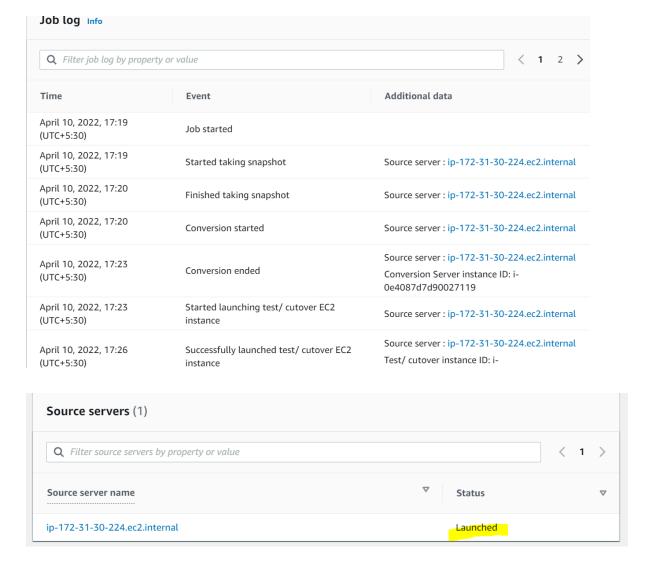
 Select the server and click on Test and cut over and select launch test instances.



 It will create a test instance and marked it as Ready for cutover. To see this, click on Launch history.

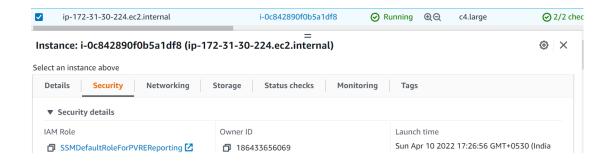


 Under the launch history we will be able to see a job, click on the job and see the logs.



STEP 5: TEST

To verify, go to ec2 console, and see the launched server.



Copy the public IP and place in a web browser to see your Ngnix test page.



• To verify the data login inside the server, SSH and check the file you created in the source server.

Once testing is done you can launch cut over instances.