SERVER MIGRATION USING AWS APPLICATION MIGRATION SERVICE

STEP 1:

- Create an IAM user Tower-MGN-User
 - User = Tower-MGN-User
 - Attach Policy Directly = AWSApplicationMigrationAgentInstallationPolicy
 - Security Credential
 - Create access key
 - Select Application running outside AWS
 - Download .csv file

STEP 2:

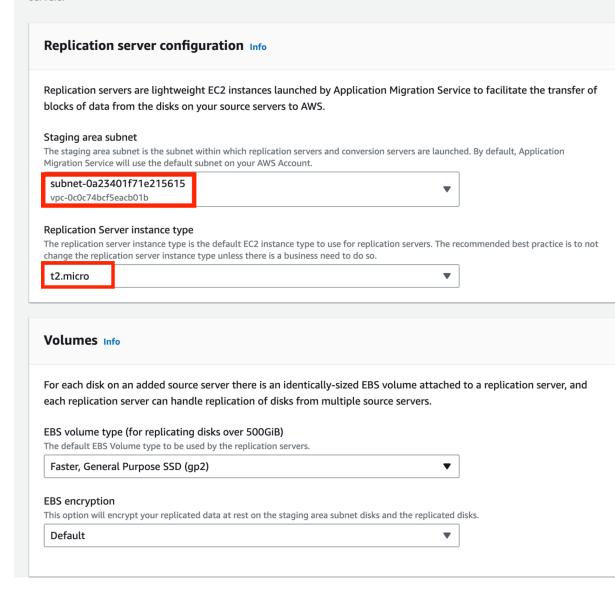
- Launch an EC2 instance using the below details
 - o AMI = ami-090e0fc566929d98b
 - Subnet = Public
 - o User Data
 - #!/bin/bash
 sudo yum update -y
 sudo amazon-linux-extras install nginx1 -y
 sudo systemctl enable nginx
 sudo systemctl start nginx
 - Tag your instance
 - Security Group: Port 80 and 22
 - o Launch with key pair.
 - Once instance is launched, put the public IP on a web browser and confirm if you can see the ngnix welcome page.
- SSH into the server and create a test file and test directory

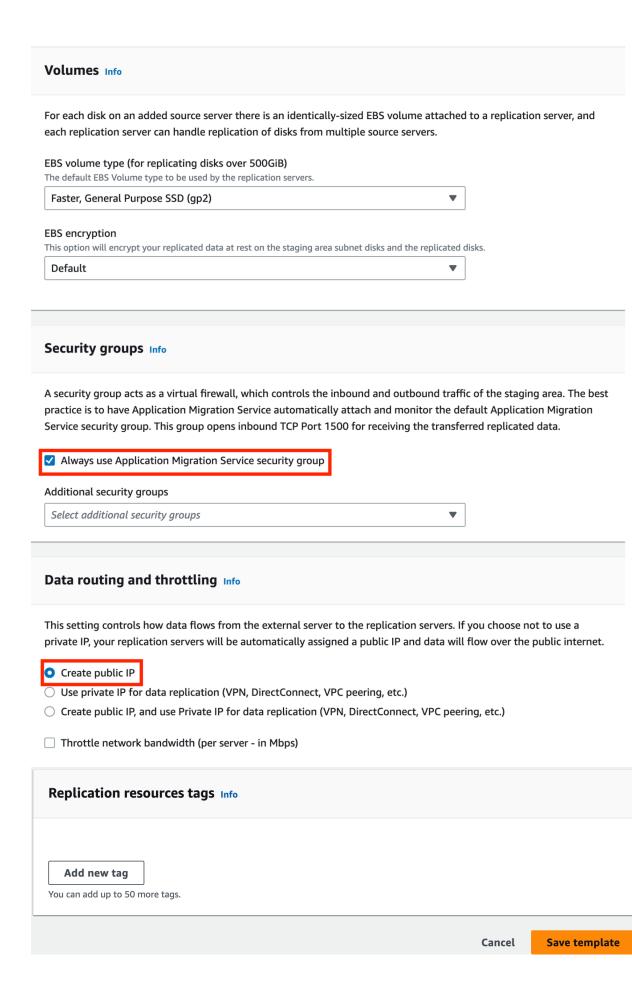
STEP 3:

- Create Replication settings template
 - o Go to MGN and Create a Replication Settings template
 - Subnet = Public subnet (Preferably in the same VPC as source instance to avoid trouble shooting networking or creating peering connections)
 - Instance type = t2.micro
 - Security Group = Always use Application Migration Service security group

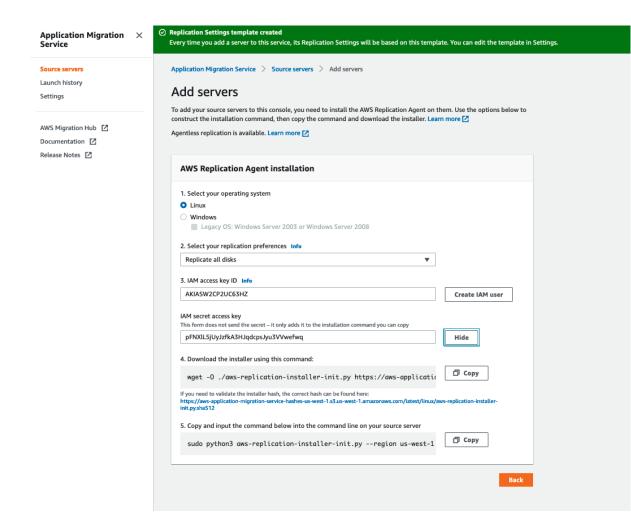
Edit replication template Info

Source servers added to this console have replication settings that control how data is sent from the source server to AWS. These settings are created automatically based on this template, and can be modified at any time for any source server or group of source servers. The defaults can be modified at any time. Changes made to defaults will only affect newly added servers.



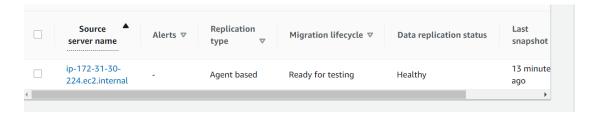


- o If your replication settings template is already created, you can make changes by going into settings.
- o Add a Source Server
 - Select Operating system
 - Pass Secret access key and Access Key ID of a user with the right permissions.
 - Copy the commands on step 4 and 5 and run in the source server.



Copy the last two link and Run into the server.

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

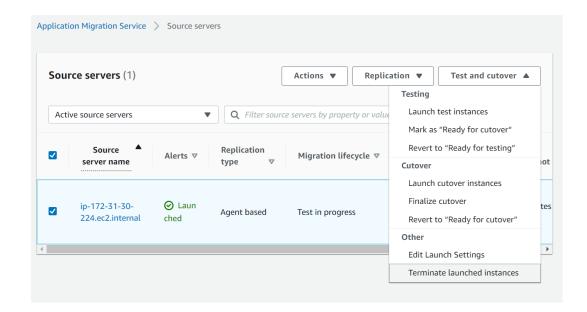


STEP 4: Edit Launch settings

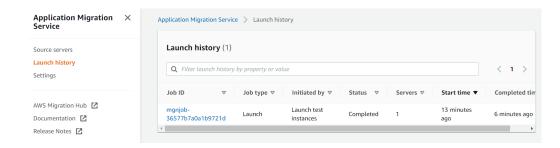
- o Go to MGN, select the server, click on Test and cutover and click on edit launch settings.
- Make all changes in the launch template on Networking and Security groups
- o Create a new version of the template
- o Select Launch template and set the default version to the latest version

STEP 5: Launch test instance

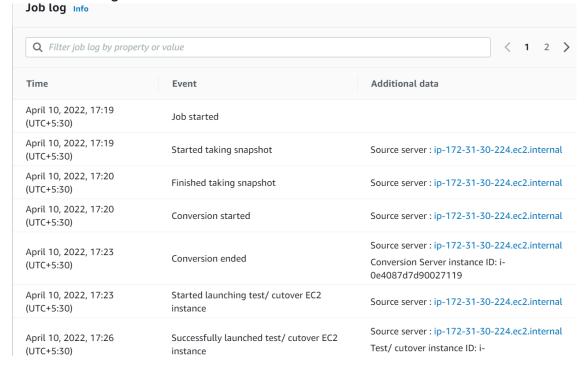
 Select the server and click on Test and cut over and select launch test instances.

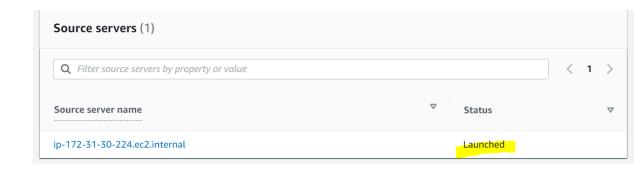


 It will create a test instance and marked it as Ready for cutover. To see this, click on Launch history.



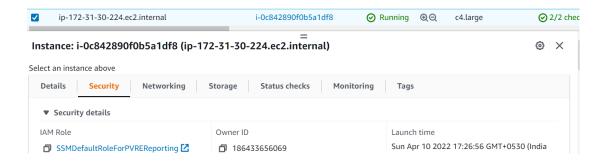
 Under the launch history we will be able to see a job, click on the job and see the logs.





STEP 6: 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.