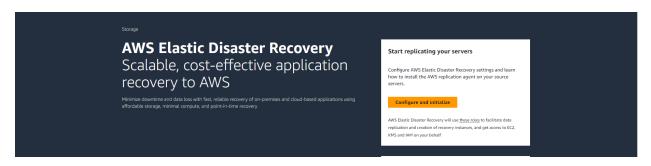
Short Description: Automation to setup AWS Elastic Disaster Recovery for all customers including new ones

Description: There are two parts in Elastic disaster recovery:

- 1. DRS configuration in Recovery region
- 2. Replication agent configuration in Instance

### **DRS** Configuration:

1. Navigate to AWS Elastic Disaster Recovery (AWS DRS) in the AWS Management Console.



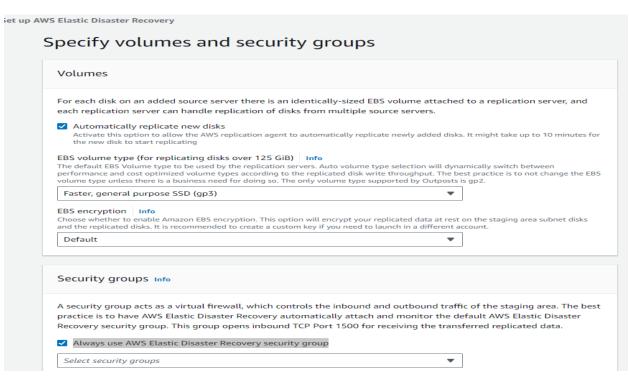
You can use the default setting, by simply choosing Next on each of the pages in this wizard or modify any of the settings to best fit your needs.

- 2. Specify the subnets and instance type for the replication server.
  - Staging area subnet.
  - Replication server instance type.

# Set up replication servers Info You are about to start creating the default replication settings. Every source server added to this console has replication settings that control how data is sent from the source server to AWS. These settings are created automatically based on this default, and can be modified at any time for any source server or group of source servers. The default itself can also be modified at any time (changes made will only affect newly added servers). Replication server configuration Info Replication servers are light weight EC2 instances launched by AWS Elastic Disaster Recovery to facilitate the transfer of blocks of data from the disks on your source servers to AWS. Staging area subnet Info The staging area subnet is the subnet within which replication servers and conversion servers are launched. By default, AWS Elastic Disaster Recovery will use the default subnet on your AWS Account. subnet-0b97bc75ac3f918fe (public1) vpc-034becd2228fd1967 Replication server instance type The replication server instance type is the default EC2 instance type to use for replication servers. The recommended best practice is to not change the replication server instance type unless there is a business need for doing so. This feature is not supported on Outposts.

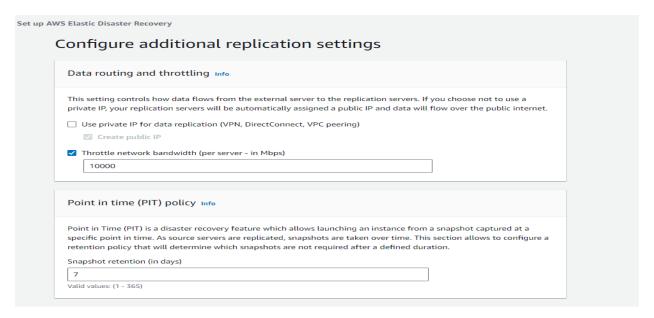
#### 3. Specify volumes and security groups

- Select Automatically replicate new disks/specific disks.
- EBS (Elastic Block Store) Volume type Faster, general purpose SSD (gp3)
- Encryption Default/specific encryption.
- Security groups- Select Always use AWS Elastic Disaster Recovery security group/specific security group for disaster recovery for EDR. (Permissions: 443, TCP 1500)

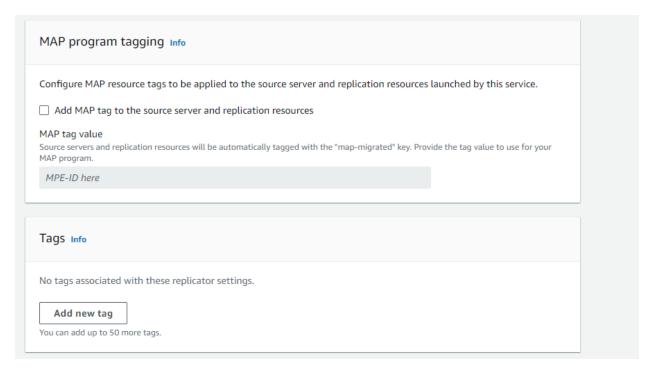


#### Click Next.

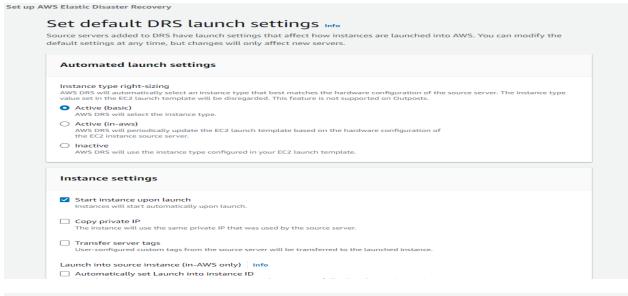
- 4. Choose a public IP/private IP for the public replication server.
  - For Private IP, there should be a connection between replication server VPC and source server VPC.
  - Throttle network bandwidth (per server in Mbps)- specify bandwidth
  - Point in time (PIT) policy specify PIT in Days

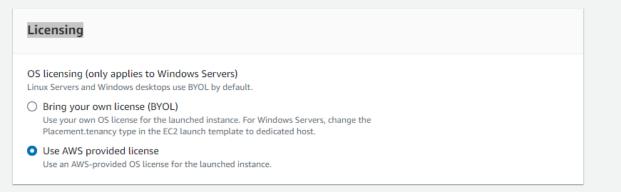


## 5. Specify tags



- 6. Specify the launch template for the source server that will be launched in DR region.
  - Specify Automated launch settings
  - Specify Instance settings
  - Specify Licensing



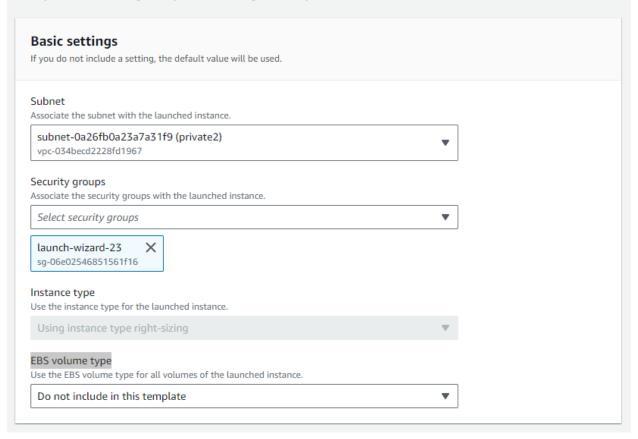


## Click Next.

- 7. Set default EC2 launch template for DR region:
  - Subnet- Free text
  - Security groups
  - Instance type
  - EBS volume type

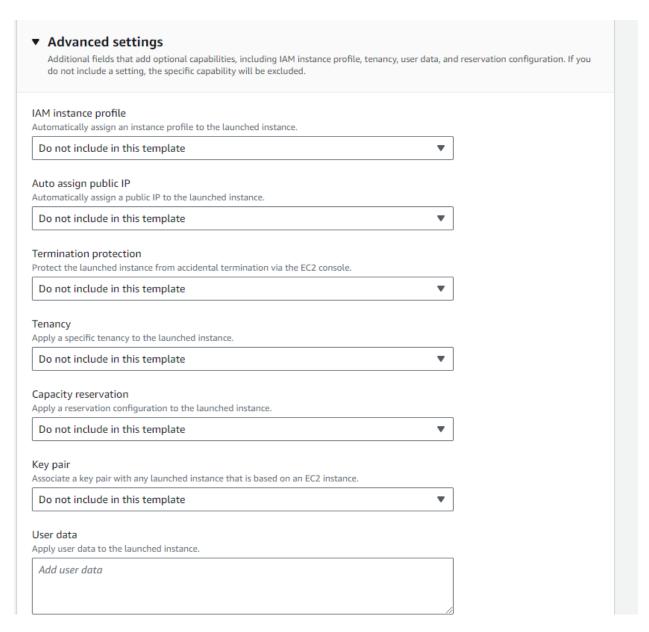
# Set default EC2 launch template Info

Every source server added to DRS has an EC2 launch template that affects how instances are launched into AWS. You can modify the default settings at any time, but changes will only affect new servers.

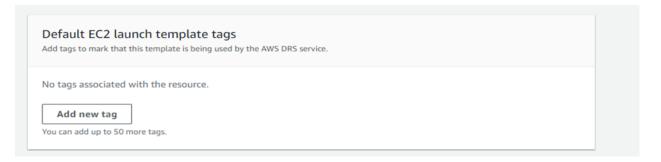


# 8. Advanced settings

- IAM Instance profile
- Tenancy
- Key Pair
- Other option: Default/specific for DR Instance

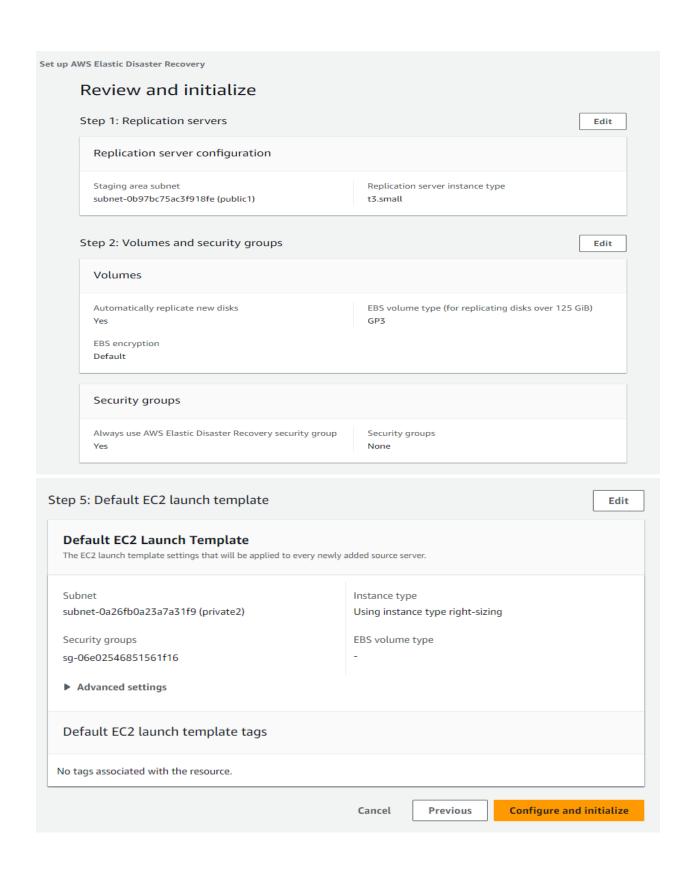


## 9. Default EC2 launch template tags:



#### Click Next.

## 10. Review and initialize - Configure and initialize



Replication agent installation and configuration in DC instances:

- 1. Access the EC2 console and select the EC2 instance.
- 2. From the top right-hand menu, select Actions > Security > Modify IAM role.

Or Need AWS Access Key ID and the AWS Secret Access Key to install replication agent.

- 3. Use a role that contains the AWSElasticDisasterRecoveryEc2InstancePolicy policy.
- 4. RDP into instance and install using URL for windows.

Or SSH into instance and install using URL for Linux.

5. For Linux:

Download agent from:

wget -O ./aws-replication-installer-init <a href="https://aws-elastic-disaster-recovery-">https://aws-elastic-disaster-recovery-</a>

<REGION>.s3.<REGION>.amazonaws.com/latest/linux/aws-replication-installer-init

Note: Replace < REGION > with the AWS Region into which you are replicating.

#### Installation:

- Execution permission:chmod +x aws-replication-installer-init;
- run pyrhon script: sudo ./aws-replication-installer-init
- The installer will prompt you to enter your AWS Region Name, the AWS Access Key ID
  and AWS Secret Access Key (if role was not attached) that you previously generated.
  Enter the complete AWS Region name (for example, eu-central-1), the full AWS
  Access Key ID and the full AWS Secret Access Key.
- Once you have entered your credentials, the installer will identify volumes for replication. The installer will display the identified disks and prompt you to choose the disks you want to replicate.
- After all the disks that will be replicated have been successfully identified, the installer will download and install the AWS Replication Agent on the source server.
- Once the AWS Replication Agent is installed, the server will be added to the AWS Elastic Disaster Recovery console and will undergo the initial sync process. The installer will provide you with the source server's ID.

#### 6. For Windows:

### Download agent:

The agent installer follows the following format: <a href="https://aws-elastic-disaster-recovery-disaster-recovery-">https://aws-elastic-disaster-recovery-disast

Note: Replace < REGION > with the AWS Region into which you are replicating.

- Run the agent installer file AWSReplicationWindowsInstaller.exe as an Administrator.
- The installer will prompt you to enter your AWS Region Name, the AWS Access
   Key ID and the AWS Secret Access Key that you previously generated.
- Once you have entered your credentials, the installer will verify that the source server has enough free disk space for Agent installation and identify volumes for replication. The installer will display the identified disks and prompt you to choose the disks you want to replicate.
- After all the disks that will be replicated have been successfully identified, the installer will download and install the AWS Replication Agent on the source server.
- Once the AWS Replication Agent is installed, the server will be added to the Elastic Disaster Recovery Console and will undergo the initial sync process.
   The installer will provide you with the source server's ID.

#### Reference:

1. AWS Elastic Disaster Recovery