**Backup and Restore Ec2 instance in s3 bucket in Same Region and Cross Aws Account.**

There are two ways to take a backup of Terminated instance in Aws

**Backup**

* Using Amazon Machine Image (AMI)
* Using Snapshot of EBS Root Volume (Must insure that Delete on Termination option should be False , or untick )

1) Firstly create AMI of instance that want to take a backup.

2) Set Up aws CLI tool and configure the aws cli using secret key and secrete Access key , and Default region of that organization.

**Install or update the AWS CLI**

* curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv2.zip"
* unzip awscliv2.zip
* sudo ./aws/install

**Confirm the installation**

$ aws –version

$ aws-cli/2.7.24 Python/3.8.8 Linux/4.14.133-113.105.amzn2.x86\_64 botocore/2.4.5

**Configure aws cli**

aws configure

$ **aws configure**

AWS Access Key ID [None]: ***AKIAIOSFODNN7EXAMPLE***

AWS Secret Access Key [None]: ***wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY***

Default region name [None]: ***us-west-2***

Default output format [None]: ***json***

3) create s3 bucket and Move the AMI to S3 Bucket using aws cli command line tool using below command

aws ec2 create-store-image-task \

--image-id ami-0d51348a684707767 \

--bucket test-server-bucket-29sept

Note:- After executing the above command you will have an output as below highlighted

"ObjectKey": "ami-0d51348a684707767.bin"

4) Terminate the Instance and Snapshot of that instance

**Restore the Instance**

5) Now Restore the AMI using aws cli as per below command

aws ec2 create-restore-image-task \

--object-key ami-0d51348a684707767.bin \

-- bucket test-server-bucket-29sept \

--name "Restore"

6) Launch the instance of restored AMI based on existing security group and existing keypair or you can create a new security group and new keypair.

**Verify Instance.**

7) Verify the services is backed and running or not on that newly launched Ec2 Instance.

If it’s all available that means aws Ec2 instance backup has been successful.

**Backup and Restore the Above Ec2 Intance In Aws Cross Account.**

To Restore the Ec2 Instance on cross aws account follow the below steps.

1) Download the AMI from S3 bucket on your Local system and Login to Aws console of cross account where that you want to Restore the Instance.

2) open aws s3 console on your dashboard and upload the downloaded ami from your Local machine to s3 bucket of cross account.

3) Run the Restore command of AMI of instance from aws cli as above step No. 5, but be careful mention the bucket name of cross account.

NOTE:- You may run below command using any aws cli whatever they are in same or another region.

aws ec2 create-restore-image-task \

--object-key ami-0d51348a684707767.bin \

-- <bucket\_name\_of\_cross\_account>\

--name "Restore"

3) once AMI is backup on cross account Ec2 console then Launch the New Instance using AMI as above step No. 6