

Migrate Data from Un-Encrypted to Encrypted EBS Volumes



Assume that application has created un-encrypted data in EBS volumes and that need to encrypt it.

If unencrypted data has 2 GB EBS volumes and then create EBS volumes of 2 GB size and check the encrypt this volume and select Master key.

{Need to identify in the volumes by login ec2 through SSH or instance connect to use terminal}

{Before creating verify the size and file type of unencrypted}

`$ df -h /var/*path*`. {information about total space and available space on a file system}

`$ ls -l | wc -l`. {To list the number of files in the folder}

`$ lsblk` {lists information about all available or the specified block devices}

Once created EBS volumes and need to attach the volumes to Ec2 instances.

`$ lsblk`

`$ mkfs -t ext4 /dev/xvdf` {format the disk}

`$ mkdir -p /var/*path` where to mount the disk*

`$ mount /dev/xvdf /*path created/`

`$ rsync -avh --progress /var/un-encrypted-volumes/ /var/encrypted-volumes/`

{ most commonly used command for copying and synchronizing files and directories remotely}

Once migration done to encrypted volumes

`$ umount /var/un-encrypted-volumes`