**Migrate Data from Un-Encrypted to Encrypted EBS Volumes**

A screenshot of a computer

Description automatically generated with low confidence

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

$unmount /var/un-encrypted-volumes