# Azure VM to AWS Ec2 SOP Migration

## PHASE 2: IN-Detailed troubleshooting for (1/2 ) Instance check

**1. Install AWS Linux Kernel on the source server.(This to be done in PHASE-1 , as it will replicate)**

```
$ apt install linux-aws
```

**2. De-attach the root volume of newly launched instance (test/cutover) and attach it to rescue instance as**

```
/dev/sdf
```

**3. SSH into a Rescue/Helper instance.**

```
$ sudo su

        # mkdir /rescue
        # mount /dev/xvdf1 /rescue
        # mount -o bind /proc /rescue/proc
        # mount -o bind /dev /rescue/dev
        # mount -o bind /sys /rescue/sys
        # chroot /rescue
```

**MAIN STEP**

**4. Once we change the root directory, we edited the /boot/grub/grub.cfg file and removed the entries related to azure kernel.**

**a.** In **menuentry** block **remove the {block} with AZURE kernel entry.**

**b.** In **submenu** block remove the {block1} with AZURE kernel entry and **{block2} with AZURE kernel (recovery mode).**

**c.** From the **submenu** **copy the block with AWS kernel** from "recordfail" to "initrdfail" and **paste it in menuentry.**

In order to edit this file, kindly download the **grub.cfg** file from instance to local system using **scp command.**

```
scp  -i "testkey.pem" grub.cfg ubuntu@3.110.197.156:/rescue/boot/grub/
```

Once file is downloaded, open the file with text editor.

**Step 1.** Move to line 150 : menuentry and delete the block for Azure kernel.

**Step 2.** Move to submenu in next line and delete the bock for Azure kernel and Azure kernel (recovery mode).

**Step 3.** After removing above 3 blocks, you are left with AWS kernel entry block.

**Step 4.** Copy the menuentry block for for AWS kernel from "recordfail" to "initrdfail" and paste it on line 150.

****Note: keep the check on staring "{" and ending "}" of curly braces and indentation in blocks.****

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## 5. Network config

We edit the **/etc/netplan** directory and **remove all other files** present in directory except: **50-cloud-init.yaml**

```
# vim 50-cloud-init.yaml
---------------------------------------
 network:
    ethernets:
        eth0:
            dhcp4: true
            dhcp6: false
            match:
                macaddress: 02:11:7a:89:9d:8e
            set-name: eth0
    version: 2
---------------------------------------
```

Save the file.

**Note: Get The MAC-Address from the NetWork Interface:of Ec2**

Save the file.

**6.** Remove the **udev rules** at /etc/udev/rules.d directory i.e. we remove all files within the **rules.d directory.**

**7.** Check /etc/fstab file and **comment out(add comment) the entry**

#/dev/disk/cloud/azure_resource-part1 and save file.

**8. cd /etc/systemd/system/multi-user.target.wants/ and remove the below entries:**

**1 -** hv-fcopy-daemon.service
**2 -** hv-vss-daemon.service
**3 -** hv-kvp-daemon.service
**4 -** ephemeral-disk-warning.service
**5 -** walinuxagent.service

**like** rm -rf hv-fcopy-daemon.service

**9.remove azure user** from the system.

userdel -r azureuser

**10.Run below command to update permission for ubuntu user.**

**#** chown root:root /home
**#** chmod 755 /home
**#** chown ubuntu:ubuntu /home/ubuntu -R

```
# chmod 700 /home/ubuntu
# chmod 700 /home/ubuntu/.ssh
# chmod 600 /home/ubuntu/.ssh/authorized_keys
```

****Note : cat /home/ubuntu/.ssh/authorized_keys and confirm the public key is there in file.**

**11.** Enter the command for detaching the volume , first exit & unmount partition

```
#  exit
#  umount /rescue/{proc,sys,dev}
 #  umount /rescue
```

**12.** Reattach volume back to impaired instance and start the instance and see if you are able to access the instance from terminal.

**13. SSH into Migrated Instance**

We are good to go with the Server