ProLUG – Incident Answers

You have the answers here, if they ask, you may give them hints. Otherwise, you can help them find the right solution any way you want to.

# Required Materials

Putty

Rocky Server

Root or sudo command access

# LAB

**Scenario 1:**

Connect to [tshoot1@prolug.asuscomm.com](mailto:tshoot1@prolug.asuscomm.com)

Password:

A ticket has come in that the web server is not running on the web server.

# To complete this event the following three must be correct.

Web server must be running. HINT: `systemctl status httpd`

Answer: `systemctl enable --now httpd` or some variation of that must have been run Web server must respond on port 80.

HINT: Can you check the open ports?

Answer: `ss -ntulp` will show port 80. The server is currently set on 8087 and needs to be fixed in /etc/httpd/conf/http.conf. The “Listen 8087” line must be changed to “Listen 80” and the service restarted `systemctl restart httpd`

Ensure that the server can be reached by external connection attempts on port 80. HINT: is the firewall running? `systemctl status firewalld`

Answer: Easiest is to turn off the firewall `systemctl stop firewalld`. If they want to open the port, they can do that too.

REBOOT THE LAB MACHINE WHEN FINISHED

# Scenario 2:

Connect to [tshoot2@prolug.asuscomm.com](mailto:tshoot2@prolug.asuscomm.com)

Password:

A ticket has come in that a mount point /space is not working correctly. The team expected a 9GB partition to be built there on the 3 attached disks, but found that it was not a separate partition.

Verify that /space is not set up correctly.

# To complete this event the following two must be correct.

HINT: They may want to revisit lab 3 of the course for this one. This is a challenge here. The three disks must be properly set up in LVM.

HINT: use your pvs, vgs, lvs tools

Answer: First identify all disks: `fdisk -l | grep -i xvd`. Then `pvcreate /dev/xvd<whatever>`. Then `vgcreate space /dev/xvd<disk1> /dev/xvd<disk2> /dev/xvd<disk3>`. Then `lvcreate -n space -l +100%FREE space\_vg`

EXT4 or XFS must be installed on the logical volume.

HINT: use mkfs to make a filesystem.

Answer: mkfs.ext4 /dev/mapper/<name of logical volume>

/space must be created and mounted off on this filesystem. Hint: Make the directory

Answer: `mkdir /space` `vi /etc/fstab` add an entry like this:

/dev/mapper/<name of logical volume> /space <NFS or XFS> defaults 1 2

/etc/fstab or systemd must have an entry for /space(do not reboot during the lab, as this will not work.)

As above

REBOOT THE LAB MACHINE WHEN FINISHED

# Scenario 3:

Connect to [tshoot3@prolug.asuscomm.com](mailto:tshoot3@prolug.asuscomm.com)

Password:

Your team is trying to update your servers during a maintenance window. Your junior administrator kicks you over a server that they cannot get to update.

# To complete this event the following two must be correct.

Fix the system to be able to update via dnf.

HINT: DNF isn’t updating, so where are the repos that it looks for?

Answer: vi /etc/yum.repos.d/rocky.repo and look for enabled=0. This needs to be fixed back to

1. If they need a reference, the original is over in /etc/yum.repos.d/rocky.repo.orig. The EPEL repo is busted the same way, as it needs to be enabled.

Verify that kernel updates are happening.

HINT: Where can updates be excluded in DNF or Yum?

Answer: They need to comment out the line in /etc/yum.conf about “exclude=kernel\*”

because this is stopping any kernel updates from happening.