



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

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

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

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.