**X100-5G IxLoad package installation guide.**

Unbox your X100-5G, then connect the Keyboard, monitor, and mouse.

Login into the system using user id **catapult** with password **catapult** and do the following command.

X100-5G has Ubuntu OS installed from factory. If you re-installed a new OS, please type in the following command:

sudo /etc/catapult/configure\_node.sh  (change hostname if desired, enter number of 1G, 10G and 25G cards present on the PCI bus; the machine will reboot automatically)

The next step is to download and install the required packages from the IxLoad software download portal to your X100-5G (to any directory ):

1. DCT installation file 1
2. DCT installation file 2
3. VM Image for IxLoad \*.bz2
4. This document
5. Installation script.

Download product Installation scripts **ixloadInstaller.sh**  to a /tmp directory.

The next step is to run the installation scripts:

cd /tmp

./ixloadInstaller.sh

This will create several scripts in directory **/home/catapult/ixload/**

cd /home/catapult/ixload/utils

Run commands:
./setupGrub.sh
./setupBridge.sh dhcp  *or*  ./setupBridge.sh IP mask  (from your IT department )

Reboot the machine using the **reboot** command**.**

Log back into the X100-5G

cd /home/catapult/ixload/install

copy the two DCT and VM images to install directory.

./dctInstall.sh

After logging in, cd to directory  /home/catapult/ixload/utils/vmTools

To find IP address of UE VM type:

python 5gVMmanagementTool.py  – getUeVmIp

This will take a couple of minutes, as the VM is being brought up for the first time

To create an SGI VM, from directory /home/catapult/ixload/utils/vmTools type:

./createSgiVM.sh <interface\_name> <vmIp> [<subnetMask> <gateway>]

 examples:

 ./createSgiVM.sh eth7 dhcp

 ./createSgiVM.sh eth7 192.168.1.44 255.255.255.0 192.168.1.250

If configured as dhcp, to find the IP address of the SGI VM:

python 5gVMmanagementTool.py  – getSgiVmIp

To create an EPC VM, from directory /home/catapult/ixload/utils/vmTools type:

./createEpcVM.sh <interface\_name> <vmIp> [<subnetMask> <gateway>]

 examples:

 ./createEpcVM.sh eth15 dhcp

 ./createEpcVM.sh eth15 192.168.1.44 255.255.255.0 192.168.1.250

If configured as dhcp, to find the IP address of the EPC VM:

python 5gVMmanagementTool.py  – getEpcVmIp

Some labs do not support DHCP based networks and will need manual assignments of static IP addresses. To assign a static IP address to UE VM follow the following steps.

python 5gVMmanagementTool.py  – getUeVmIp

Since the lab does not support DHCP, this command will fail will with an exception but we executed this command to start the VM so that we can login and configure the IP address.

sudo nc -U /tmp/vlm31.sock

                        <Enter>

                        Login as user: admin     password: admin

        Then

                        set ip eth0 <ip> <networkMask> <gateway>

                        example:   set ip eth0 192.168.1.55 255.255.255.0 192.168.1.250