EX200$^{Q\&As}$

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QUESTION 1

There are two different networks, 192.168.0.0/24 and 192.168.1.0/24. Your System is in 192.168.0.0/24 Network. One RHEL6 Installed System is going to use as a Router. All required configuration is already done on Linux Server. Where

192.168.0.254 and 192.168.1.254 IP Address are assigned on that Server. How will make successfully ping to 192.168.1.0/24 Network\\'s Host?

Correct Answer: Check the anser in explanation.

vi /etc/sysconfig/network GATEWAY=192.168.0.254

OR

vi /etc/sysconf/network-scripts/ifcfg-eth0 DEVICE=eth0

BOOTPROTO=static

ONBOOT=yes

IPADDR=192.168.0.?

NETMASK=255.255.255.0

GATEWAY=192.168.0.254

service network restart

Gateway defines the way to exit the packets. According to question System working as a router for two networks have IP Address 192.168.0.254 and 192.168.1.254.

QUESTION 2

Part 2 (on Node2 Server)

Task 7 [Implementing Advanced Storage Features]

Create a thin-provisioned filesystem with the name think_fs from a pool think_pool using the devices.

The filesystem should be mounted on /strav and must be persistent across reboot

Correct Answer: Check the anser in explanation.

* [root@node2 ~]# lsblk NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT vdd 252:48 0 5G 0 disk vde 252:64 0 10G 0 disk vdo1 253:4 0 50G 0 vdo /vbread [root@node2 ~]# yum install stratis* -y [root@node2 ~]# systemctl enable --now stratisd.service [root@node2 ~]# systemctl start stratisd.service [root@node2 ~]# systemctl status stratisd.service [root@node2 ~]# stratis pool create think_pool /dev/vdd [root@node2 ~]# stratis pool list Name Total Physical Properties think_pool 5 GiB / 37.63 MiB / 4.96 GiB ~Ca,~Cr

* [root@node2 ~]# stratis filesystem create think_pool think_fs [root@node2 ~]# stratis filesystem list Pool Name Name Used Created Device UUID think_pool think_fs 546 MiB Mar 23 2021 08:21 /stratis/think_pool/think_fs ade6fdaab06449109540c2f3fdb9417d [root@node2 ~]# mkdir /strav [root@node2 ~]# lsblk [root@node2 ~]# blkid /dev/mapper/stratis-1-91ab9faf36a540f49923321ba1c5e40d-thin-fs- ade6fdaab06449109540c2f3fdb9417d:

UUID="ade6fdaa-b064-4910-9540-c2f3fdb9417d" BLOCK_SIZE="512" TYPE="xfs"

* [root@node2 ~]# vim /etc/fstab UUID=ade6fdaa-b064-4910-9540-c2f3fdb9417d /strav xfs defaults,x-systemd.requires=stratisd.service 0 0 [root@node2 ~]# mount /stratis/think_pool/think_fs /strav/ [root@node2 ~]# df -hT /dev/mapper/stratis-1-91ab9faf36a540f49923321ba1c5e40d-thin-fs- ade6fdaab06449109540c2f3fdb9417d xfs 1.0T 7.2G 1017G 1% /strav

QUESTION 3

Your System is going to use as a Router for two networks. One Network is 192.168.0.0/24 and Another Network is 192.168.1.0/24. Both network\\'s IP address has assigned. How will you forward the packets from one network to another network?

Correct Answer: Check the anser in explanation.

echo "1" >/proc/sys/net/ipv4/ip_forward

vi /etc/sysctl.conf

net.ipv4.ip_forward = 1 If you want to use the Linux System as a Router to make communication between different networks, you need enable the IP forwarding. To enable on running session just set value 1 to /proc/sys/net/ipv4/ip_forward. As well as automatically turn on the IP forwarding features on next boot set on /etc/sysctl.conf file.

QUESTION 4

There is a local logical volumes in your system, named with shrink and belong to VGSRV volume group, mount to the /shrink directory. The definition of size is 320 MB.

Requirement:

Reduce the logical volume to 220 MB without any loss of data. The size is allowed between 200-260 MB after reducing.

Correct Answer: Check the anser in explanation.

cd;umount /shrink e2fsck -f /dev/mapper/vgsrv-shrink resize2fs /dev/mapper/vgsrv-shrink 220M lvreduce -L 220M /dev/mapper/vgsrv-shrink mount -a

QUESTION 5

Open kmcrl value of 5 , and can verify in /proc/ cmdline

Correct Answer: Check the anser in explanation.

vim /boot/grub/grub.conf kernel/vmlinuz-2.6.32-71.el6.x86_64 ro root=/dev/mapper/GLSvg-GLSrootrd_LVM_LV=GLSvg/GLSroot rd_LVM_LV=GLSvg/GLSswaprd_NO_LUKSrd_NO_MDrd_NO_DM LANG=en_US.UTF-8 SYSFONT=latarcyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us crashkernel=auto rhgb quiet kmcrl=5 Restart to take effect and verification: # cat /proc/cmdline ro root=/dev/mapper/GLSvg-GLSroot rd_LVM_LV=GLSvg/GLSroot rd_LVM_LV=GLSvg/GLSswap rd_NO_LUKS rd_NO_MD rd_NO_DM LANG=en_US.UTF-8 SYSFONT=latarcyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us rhgb quiet kmcrl=5

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