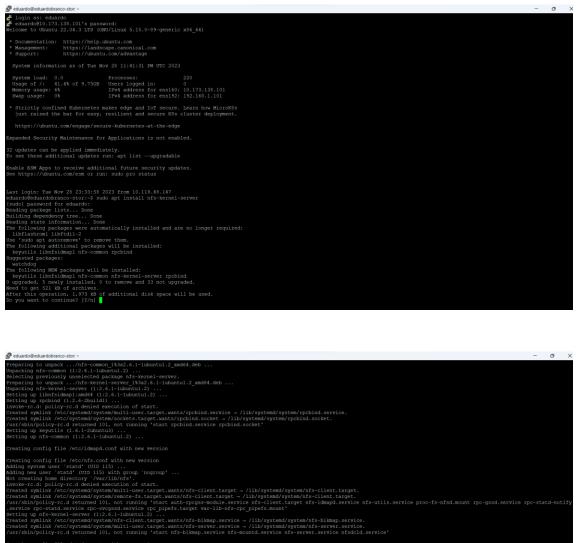
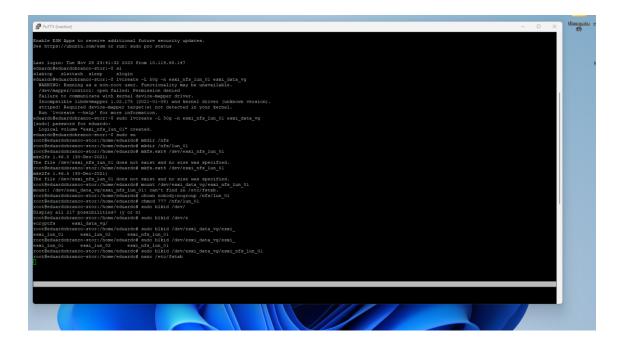
Vmware - NFS



VM guests are running outdated hypervisor (gemu) binaries on this host. mardo@eduardobranco-stor:~\$

uturdo@eduadobranco-ston -
Get:4 http://cs.archive.ubuntu.com/ubuntu jammy-updates/main amd64 nfs-common amd64 1:2.6.1-1ubuntul.2 [241 kB]
deri5 http://cs.archive.ubuntu.com/buntu_jammy-updates/main amd64 mfs-kernel-server amd64 li2.6.1-lubuntul.2 [140 kB] Fetneds 521 kb in 0 s (2.134 kb/s)
Selecting previously unselected package libnfsidmapl:amd64.
(Reading database 109819 files and directories currently installed.)
Preparing to unpack/libnfsidmapl 143a2.6.1-lubuntul.2 amd64.deb
Unpacking libnfsidmapl:amd64 (1:2.6.1-lubuntul.2)
Selecting previously unselected package rpcbind.
Preparing to unpack/rpcbind 1.2.6-2build1 amd64.deb
Unpacking rpcbind (1.2.6-2build1)
Selecting previously unselected package keyutils.
Preparing to unpack/keyutils 1.6.1-2ubuntu3 amd64.deb
Unpacking keyutils (1.6.1-2ubuntu3)
Selecting previously unselected package nfs-common.
Preparing to unpack/nfs-common 1%3a2.6.1-lubuntul.2 amd64.deb
Unpacking nfs-common (1:2.6.1-lubuntu1.2)
Selecting previously unselected package nfs-kernel-server.
Preparing to unpack/nfs-kernel-server 143a2.6.1-lubuntul.2 amd64.deb
Unpacking nfs-kernel-server (1:2.6.1-lubuntul.2)
Setting up libnfsidmapl:amd64 (1:2.6.1-lubuntul.2)
Setting up rpcbind (1.2.6-2build1)
invoke-rc.d: policy-rc.d denied execution of start.
Created symlink /etc/system/multi-user.target.wants/rpcbind.service - /lib/system/rpcbind.service.
Created symlink /etc/system/sockets.target.wants/rpcbind.socket - /lib/system/rpcbind.socket.
/usr/sbin/policy-rc.d returned 101, not running 'start spebind.service rpcbind.socket'
Setting up keyutils (1.6.1-2ubuntu3)
Setting up nfs-common (1:2.6.1-lubuntu1.2)
Creating config file /etc/idmapd.conf with new version
Creating confid file /etc/nfs.conf with new version
Adding system user 'statd' (UID 115)
Adding new user 'statd' (UID 115) with group 'nogroup'
Not creating home directory '/var/lib/nfs'.
invoke-rc.d: policy-rc.d denied execution of start.
Created symlink /ctc/systemd/system/multi-user.target.wants/nfs-client.target - /lib/systemd/system/nfs-client.target.
Created symlink /ttc/systemd/system/remote-fs.target.wants/nfs-client.target - /lib/systemd/system/nfs-client.target.
/usr/shin/policy-rc.d returned 101, not running 'start auth-rpcgss-module.service nfs-client.target nfs-timapd.service nfs-utils.service proc-fs-nfsd.mount rpc-gssd.service rpc-statd-notify
service rpc-statd.service rpc-svcqsad.service rpc pipefa.target var-lib-mfs-rpc pipefa.mount'
Setting up nfs-kernel-server (1:2.6.1-lubuntul.2)
Created avmlink /etc/systemd/system/nfs-client.target.wants/nfs-blkmap.service -> /lib/systemd/system/nfs-blkmap.service.
Created symlink /ctc/system/system/milti-user.target.wants/nfs-servet.service - /hib/system
/usr/sbin/policy-rc.d returned 101, not running 'start nfs-blkmap.service nfs-mountd.service nfs-server.service nfsdcld.service'
Creating config file /etc/exports with new version
Creating config file /stc/default/nfs-kernel-server with new version
invoke-z.d: polizy-zc.d denied skeution of start. Evocessing triggets for man-do (2.10.2.1)
Processing triggers for Man-mu (J.10.2-1) Frocessing triggers for Indo-bin (J.16-binut).4)
Scanning processes
Scanning linux images
Running kernel seems to be up-to-date.
No services meed to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM quests are running outdated hypervisor (gemu) binaries on this host.



Թ root@eduardobranco-stor: /home/eduardo	
GNU nano 6.2	/etc/fstab
<pre># /etc/fstab: static file system information.</pre>	
$\frac{1}{2}$ Use 'blkid' to print the universally unique identifier for a	
\ddagger device; this may be used with UUID= as a more robust way to name devices	
f that works even if disks are added and removed. See fstab(5).	
*	
<pre># / was on /dev/ubuntu-vg/ubuntu-lv during curtin installation</pre>	
/dev/disk/by-id/dm-uuid-LVM-aE2OUCtz4UYrZdhalvV8EQPW4jqe476pMEtuOiunZinVy9NObuLPrjGxqK2wZxKU / ext4 defaults 0 1 # /boot was on /dev/sda2 during curtin installation	
/dev/disk/by-uuid/f5b288b9-9b73-4219-95a0-dab66985977e /boot ext4 defaults 0 1	

GNU nano 6.2 /etc/exports * /nfs/lun_01 192.168.1.102(rw,sync,no_subtree_check) /etc/exports * /nfs/lun_01 192.168.1.103(rw,sync,no_subtree_check) /etc/exports * exportfs = ra /etc/exports : the access control list for filesystems which may be exported \$ to NFS clients. See exports(5). \$ Example for NFSv2 and NFSv3:	
<pre>/nfs/lun_01 192.168.1.103(rw,sync,no_subtree_check) exportfs -rs # /etc/exports: the access control list for filesystems which may be exported # to NFS clients. See exports(5). #</pre>	
exportfs -ra # /etc/exports: the access control list for filesystems which may be exported # to NFS clients. See exports(5). #	
<pre># /etc/exports: the access control list for filesystems which may be exported # to NFS clients. See exports(5). #</pre>	
<pre># to NFS clients. See exports(5). #</pre>	
# Frammla for NFSw7 and NFSw7.	
<pre># /srv/homes hostname1(rw,sync,no subtree check) hostname2(ro,sync,no subtree check)</pre>	
* / Stor Homes Hosthamer (IW, Sync, Ho_sublee_Check) Hosthamer (IV, Sync, Ho_sublee_Check)	
# Example for NFSv4:	
<pre># /srv/nfs4 gss/krb5i(rw,sync,fsid=0,crossmnt,no subtree check)</pre>	
<pre># /srv/nfs4/homes gss/krb5i(rw,sync,no subtree check)</pre>	
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	New Datastore 2 Select NFS version 3 Name and configuration 4 Host accessibility 5 Ready to complete	Type Secondy datastore type: · VAP5 Create a VMP5 datastore on a disVLUM. · NP5 · VAP1 Create a NMS datastore on an NP5 share over the network. · Vk0 Create a VMtail Volumes datastore on a storage container connected to a storage provider.	Concernent Memory & v Halt Bank v (Igners 0% ? NA 0% ? NA

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- 1. View the content pane and record the information about the datastore.
 - a. Datastore type NFS3
 - b. Capacity of the datastore 9.75gb
 - c. Free space of the datastore 5.69 GB
 - d. Used space of the datastore 4.06 GB

1. What is NFS?

Network File System (NFS) It's a protocol for distributed file systems that lets a user on a client computer get to files over a network as if they were on the local storage. NFS allows remote entry to files and folders, creating a way to share and get to data among various computers in a network.

2. What are the benefits of using NFS in Server Virtualization?

Individual server-level management at the personal server level is easier.

• <u>Centralized storage</u>: NFS provides a centralized storage solution, allowing multiple virtual machines (VMs) to access the same storage resources simultaneously. This centralization improves resource utilization and facilitates the management and allocation of storage capacity.

• <u>Ease of Scalability</u>: NFS makes it easy to scale storage resources as needed. Additional storage can be added to the NFS server, and VMs can access it without requiring extensive reconfiguration at the individual server level.

• <u>Flexible access</u>: NFS supports file-level storage access, making it suitable for various workloads. VMs can access files directly, and this flexibility is beneficial for applications that require shared file access.

• <u>Network efficiency</u>: NFS operates over standard Internet Protocol (IP), making it network-friendly. It efficiently uses network resources to transfer data between the storage server and virtualized servers.

• <u>Compatibility</u>: NFS is a widely supported protocol, making it compatible with various operating systems and virtualization platforms. This compatibility improves interoperability in mixed technology environments.

🚰 eduardo@eduardobranco-stor: /etc/tgt/conf.d			
eduardo@eduardobranco_st	or:/etc/tgt/conf.d\$ sudo lvdisplay		
[sudo] password for edua			
Logical volume	2401		
LV Path	/dev/esxi data vg/esxi lun 01		
LV Name	esxi lun 01		
VG Name	esxi data vg		
TA AAID	SmFsZO-w1HT-kefW-WNtP-PdVe-nnaA-Sn8CHb		
LV Write Access	read/write		
	eduardobranco-stor, 2023-09-28 00:21:28 +0000		
LV Status	available		
# open	1		
LV Size	50.00 GiB		
Current LE	12800		
Segments	1		
Allocation	inherit		
Read ahead sectors	auto		
- currently set to	256		
Block device	253:0		
_			
Logical volume			
LV Path	/dev/esxi_data_vg/esxi_lun_02		
LV Name	esxi_lun_02		
VG Name	esxi_data_vg		
LV UUID	seneum-8pD3-6Zkm-Xjwo-WFMb-8Jtv-KLeIsX		
LV Write Access	read/write		
	eduardobranco-stor, 2023-11-09 01:36:49 +0000		
LV Status	available		
# open	0		
LV Size	50.00 GiB		
Current LE	12800		
Segments			
	inherit		
	auto		
- currently set to	256		
Block device	253:1		
Logical volume			
LV Path	/dev/esxi data vg/esxi nfs lun 01		
LV Name	esxi nfs lun 01		
VG Name	esxi data vg		
LV UUID	dNPofo-FhID-bC11-wijf-rPn8-0sIB-jiUUMM		
LV Write Access	read/write		
	eduardobranco-stor, 2023-11-28 23:54:17 +0000		
LV Status	available		
# open	0		
LV Size	50.00 GiB		
Current LE	12800		