Lab: Deploying Static NFS Provisioning


```
root@anushakubernetes:~# sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu noble-updates InRelea
se [126 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu noble-backports InRel
ease [126 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu noble-security InRele
ase [126 kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64
Packages [15.0 MB]
Get:6 http://azure.archive.ubuntu.com/ubuntu noble/universe Transl
ation-en [5982 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64
Components [3871 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64
c-n-f Metadata [301 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd6
4 Packages [269 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu noble/multiverse Tra
nslation-en [118 kB]
Get:11 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd
64 Components [35.0 kB]
Get:12 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd
64 c-n-f Metadata [8328 B]
Get:13 http://azure.archive.ubuntu.com/ubuntu noble-updates/main a
md64 Packages [384 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu noble-updates/main T
ranslation-en [94.6 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu noble-updates/main a
md64 c-n-f Metadata [6272 B]
Get:16 http://azure.archive.ubuntu.com/ubuntu noble-updates/univer
se amd64 Packages [327 kB]
Get:17 http://azure.archive.ubuntu.com/ubuntu noble-updates/univer
se Translation-en [137 kB]
Get:18 http://azure.archive.ubuntu.com/ubuntu noble-updates/univer
se amd64 Components [45.0 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu noble-updates/univer
se amd64 c-n-f Metadata [13.2 kB]
Get:20 http://azure.archive.ubuntu.com/ubuntu noble-updates/restri
```



```
Created symlink /etc/systemd/system/multi-user.target.wants/nfs-se
rver.service → /usr/lib/systemd/system/nfs-server.service.
nfs-mountd.service is a disabled or a static unit, not starting it
.
nfsdcld.service is a disabled or a static unit, not starting it.

Creating config file /etc/exports with new version

Creating config file /etc/default/nfs-kernel-server with new versi
on
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on
 this host.
root@anushakubernetes:~# systemctl enable --now nfs-server
root@anushakubernetes:~# systemctl status nfs-server --no-pager
● nfs-server.service - NFS server and services
     Loaded: loaded (/usr/lib/systemd/system/nfs-server.service; e
nabled; preset: enabled)
     Active: active (exited) since Thu 2024-08-22 15:08:48 UTC; 1m
in 40s ago
   Main PID: 2970 (code=exited, status=0/SUCCESS)
        CPU: 13ms

Aug 22 15:08:48 anushakubernetes systemd[1]: Starting nfs-serve…..
Aug 22 15:08:48 anushakubernetes exportfs[2968]: exportfs: can'…ng
Aug 22 15:08:48 anushakubernetes systemd[1]: Finished nfs-serve…s.
Hint: Some lines were ellipsized, use -l to show in full.
```

```
root@anushakubernetes:~# sudo dnf install -y nfs-utils
sudo: dnf: command not found
root@anushakubernetes:~# sudo systemctl enable nfs-server
root@anushakubernetes:~# systemctl status nfs-server --no-pager
● nfs-server.service - NFS server and services
     Loaded: loaded (/usr/lib/systemd/system/nfs-server.service; e
nabled; preset: enabled)
     Active: active (exited) since Thu 2024-08-22 15:08:48 UTC; 15
min ago
   Main PID: 2970 (code=exited, status=0/SUCCESS)
        CPU: 13ms

Aug 22 15:08:48 anushakubernetes systemd[1]: Starting nfs-serve…..
Aug 22 15:08:48 anushakubernetes exportfs[2968]: exportfs: can'…ng
Aug 22 15:08:48 anushakubernetes systemd[1]: Finished nfs-serve…s.
Hint: Some lines were ellipsized, use -l to show in full.
root@anushakubernetes:~# mkdir -p /srv/nfs/kubedata
root@anushakubernetes:~# cat > /etc/exports <<EOF
/srv/nfs/kubedata *(rw,sync,no_root_squash,insecure)
EOF
root@anushakubernetes:~# cat /etc/exports
/srv/nfs/kubedata *(rw,sync,no_root_squash,insecure)
root@anushakubernetes:~# exportsfs -avr
Command 'exportsfs' not found, did you mean:
  command 'exportfs' from deb nfs-kernel-server (1:2.6.3-3ubuntu1)
Try: apt install <deb name>
root@anushakubernetes:~# exportfs -avr
exportfs: /etc/exports [1]: Neither 'subtree_check' or 'no_subtree
_check' specified for export "*:/srv/nfs/kubedata".
  Assuming default behaviour ('no_subtree_check').
  NOTE: this default has changed since nfs-utils version 1.0.x

exporting *:/srv/nfs/kubedata
root@anushakubernetes:~# exportfs -v
/srv/nfs/kubedata
                <world>(sync,wdelay,hide,no_subtree_check,sec=sys,
rw,insecure,no_root_squash,no_all_squash)
root@anushakubernetes:~# cat -n ~/kubernetes/storage-static-pv.yml
cat: /root/kubernetes/storage-static-pv.yml: No such file or direc
```

```
login as: anusha954
anusha954@20.11.22.32's password:
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

 System information as of Mon Aug 19 07:31:04 UTC 2024

  System load:  0.8               Processes:             137
  Usage of /:   1.1% of 122.94GB  Users logged in:       0
  Memory usage: 4%                IPv4 address for eth0: 10.2.0.4
  Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


The list of available updates is more than a week old.
To check for new updates run: sudo apt update


The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

anusha954@anushajenkins:~$ sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu noble InRelease
```

```
anusha954@anushajenkins:~$ sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu noble-updates InRelea
se [126 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu noble-backports InRel
ease [126 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu noble-security InRele
ase [126 kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64
Packages [15.0 MB]
Get:6 http://azure.archive.ubuntu.com/ubuntu noble/universe Transl
ation-en [5982 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64
Components [3871 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64
c-n-f Metadata [301 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd6
4 Packages [269 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu noble/multiverse Tra
nslation-en [118 kB]
Get:11 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd
64 Components [35.0 kB]
Get:12 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd
64 c-n-f Metadata [8328 B]
Get:13 http://azure.archive.ubuntu.com/ubuntu noble-updates/main a
md64 Packages [348 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu noble-updates/main T
ranslation-en [87.9 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu noble-updates/main a
md64 c-n-f Metadata [5764 B]
Get:16 http://azure.archive.ubuntu.com/ubuntu noble-updates/univer
se amd64 Packages [323 kB]
Get:17 http://azure.archive.ubuntu.com/ubuntu noble-updates/univer
se Translation-en [136 kB]
Get:18 http://azure.archive.ubuntu.com/ubuntu noble-updates/univer
se amd64 Components [45.0 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu noble-updates/univer
se amd64 c-n-f Metadata [12.8 kB]
```

```
Get:23 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiv
erse Translation-en [3608 B]
Get:24 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiv
erse amd64 Components [212 B]
Get:25 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiv
erse amd64 c-n-f Metadata [532 B]
Get:26 http://azure.archive.ubuntu.com/ubuntu noble-backports/main
 amd64 Components [208 B]
Get:27 http://azure.archive.ubuntu.com/ubuntu noble-backports/main
 amd64 c-n-f Metadata [112 B]
Get:28 http://azure.archive.ubuntu.com/ubuntu noble-backports/univ
erse amd64 Packages [10.3 kB]
Get:29 http://azure.archive.ubuntu.com/ubuntu noble-backports/univ
erse Translation-en [10.5 kB]
Get:30 http://azure.archive.ubuntu.com/ubuntu noble-backports/univ
erse amd64 Components [17.6 kB]
Get:31 http://azure.archive.ubuntu.com/ubuntu noble-backports/univ
erse amd64 c-n-f Metadata [1016 B]
Get:32 http://azure.archive.ubuntu.com/ubuntu noble-backports/rest
ricted amd64 Components [216 B]
Get:33 http://azure.archive.ubuntu.com/ubuntu noble-backports/rest
ricted amd64 c-n-f Metadata [116 B]
Get:34 http://azure.archive.ubuntu.com/ubuntu noble-backports/mult
iverse amd64 Components [212 B]
Get:35 http://azure.archive.ubuntu.com/ubuntu noble-backports/mult
iverse amd64 c-n-f Metadata [116 B]
Get:36 http://azure.archive.ubuntu.com/ubuntu noble-security/main
amd64 Packages [294 kB]
Get:37 http://azure.archive.ubuntu.com/ubuntu noble-security/main
Translation-en [68.1 kB]
Get:38 http://azure.archive.ubuntu.com/ubuntu noble-security/main
amd64 c-n-f Metadata [3768 B]
Get:39 http://azure.archive.ubuntu.com/ubuntu noble-security/unive
rse amd64 Packages [250 kB]
Get:40 http://azure.archive.ubuntu.com/ubuntu noble-security/unive
rse Translation-en [108 kB]
Get:41 http://azure.archive.ubuntu.com/ubuntu noble-security/unive
rse amd64 Components [8632 B]
Get:42 http://azure.archive.ubuntu.com/ubuntu noble-security/unive
```

```
  Selection    Path                                          Priori
ty    Status
--------------------------------------------------------------
* 0            /usr/lib/jvm/java-21-openjdk-amd64/bin/java   2111
     auto mode
  1            /usr/lib/jvm/java-21-openjdk-amd64/bin/java   2111
     manual mode

Press <enter> to keep the current choice[*], or type selection num
ber:
anusha954@anushajenkins:~$ sudo update-alternatives --config javac
There is 1 choice for the alternative javac (providing /usr/bin/ja
vac).

  Selection    Path                                          Prior
ity    Status
--------------------------------------------------------------
* 0            /usr/lib/jvm/java-21-openjdk-amd64/bin/javac   2111
     auto mode
  1            /usr/lib/jvm/java-21-openjdk-amd64/bin/javac   2111
     manual mode

Press <enter> to keep the current choice[*], or type selection num
ber:
anusha954@anushajenkins:~$ sudo update-alternatives --config java
There is 1 choice for the alternative java (providing /usr/bin/jav
a).

  Selection    Path                                          Priori
ty    Status
--------------------------------------------------------------
* 0            /usr/lib/jvm/java-21-openjdk-amd64/bin/java   2111
     auto mode
  1            /usr/lib/jvm/java-21-openjdk-amd64/bin/java   2111
     manual mode

Press <enter> to keep the current choice[*], or type selection num
ber:
anusha954@anushajenkins:~$
```