

10GbE Network Tuning on Fedora

For Fedora workstations/servers mounting:

- Prefer kernel CIFS mounts (`mount -t cifs`) over GVFS/GUI mounts; GVFS is noticeably slower for bulk IO.
- Add a basic 10 GbE-friendly `/etc/sysctl.d/10g.conf` on Fedora, e.g.:
- `net.core.rmem_max = 134217728`
- `net.core.wmem_max = 134217728`
- `net.ipv4.tcp_rmem = 4096 87380 134217728`
- `net.ipv4.tcp_wmem = 4096 65536 134217728` This allows the SMB/TCP stack to actually fill the pipe.

Typical high-throughput `cifs` mount line for large sequential IO:

```
mount -t cifs //n2/share /mnt/n2 \  
-o vers=3.1.1,sec=ntlmssp,cache=strict,echo_interval=60,actimeo=1,soft \  
,rsize=1048576,wsize=1048576,uid=1000,gid=1000
```

Those options mirror what Red Hat and others recommend for high-bandwidth SMB on modern kernels.

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