How I did Lab 11:

* Intalled chrony on RedHat machines:
  + Dnf install chronyc
* On Machine A:
  + Int /etc/chrony.conf, I edited to only have both NIST time servers and only allow for LAN and DMZ subnets to access these servers:

server time-a-wwv.nist.gov iburst

server time-a-b.nist.gov iburst

allow 10.21.32.0/24

allow 100.64.12.0/24

* + In /etc/dhcp/dhcpd.conf I configured the ntp servers now according to the subnet IPs instead of one global rule for both NIST servers. So the option ntp-servers was set in the subnet for 100.64.12.0/24 and 10.21.32.0/24.
* On Machine E:
  + To install NFS, I did: dnf install nfs-utils
  + In the /etc/exports file I configured:

/home/accounting/www 100.64.12.0/24(rw,sync,root\_squash,no\_all\_squash)

* + I created the directory: /home/accounting/www
* On Machine C:
  + To install NFS, I did: apt install nfs-common
  + I mounted the NFS server by doing:

mount -t nfs -o ro,soft 10.21.32.2:/home/accounting/www/var/www/html/dundermifflin/accounting/

* + To make this mount permanent I went into /etc/fstab and entered this:

10.21.32.2:/home/accounting/www /var/www/html/dundermifflin/accounting nfs ro,soft 0 0

* + Also, in /etc/group, I added www-data to the accounting group so it could access the web files in accounting and display it on the website.
* On Machine D:
  + To install NFS, I did: dnf install nfs-utils
  + Everything above was copied for this machine. Instead of adding www-data, it is called ‘apache’ which was added to the accounting group
  + In crontab -e, I changed the rsync command to get the dundermifflin content from machine c without copying over accounting. This is the new input:

\*/5 \* \* \* \* rsync -aH --exclude='accounting/' 100.64.12.3:/var/www/html/dundermifflin/\* /var/www/html/dundermifflin

* Once all of this was done, I did a reboot of all devices, starting with A and then the rest.

Time taken on Lab: 7 hours.