- Configure yum on server and client
- Perform the following:
 - Disable SELINUX
 - Verify the status of firewall and disable it.
 - o Display:
 - Ip address
 - DNS address
 - Kernel version
 - Logged in username
 - Current working directory
 - Current runlevel
 - Currently mounted partitions
 - Size of /var (in human readable format).
 - Installed OS name
 - First process
 - Total memory and CPU information
 - Number of packages in /var/ftp/pub
 - Current working shell
- Create a volume group of 20gb by following the standard procedure and use this vg and create 2 LVMs with 12gb (of ext4 file system) and mount it at /std01 and 8gb with XFS file system and mount it at /std02.
- Extend the 8gb LVM to a total of 15gb by adding appropriate size and verify.
- Create a standard partition of 5gb with xfs file system and mount it on /shareddir.
- Create a directory in /shareddir and allow the following.
- RWX permission to owner and group.
- No read, no write and no execute permissions to others.
- Allow read only access to hr group (create hr group, if not present).
- Allow read-write access to sales group (create, if not done already).
- Verify ftp server and remove/uninstall ftp if already installed. Configure and access data using ftp.
- Create an http website using the following code:
 - <html>
 - <body bgcolor='pink'>
 - <h1 align='center'>
 - Hello demo
 - <h1/>
 - </body>
 - </html>
- Enable firewall and add the following port numbers and services to it and verify:
 - o 80, 443, 22, 123, samba
- Use linux send mail server to send and receive email from it.
- Create a new directory /sambashare and access it on windows and verify if you are able to read and write the contents/files on it.
- Use NMTUI to change (on server and client):
- Hostname to server.ltimindtree.com

On server, go to "/etc/yum.repos.d" directory and configure the config file using configuration.

```
[root@server ~]# cd /etc/yum.repos.d/
[root@server yum.repos.d]# ls
ysbase.repo ys.repo
[root@server yum.repos.d]# ■
```

Create 2 files and add below configuration to files individually.

"ysbase.repo"

```
[root@server yum.repos.d]# cat ysbase.repo
[baseyumserver]
name="baseyumserver"
baseurl=file:///var/ftp/pub/Base0S
gpgcheck=0
enabled=1
[root@server yum.repos.d]# ■
```

"ys.repo"

```
[root@server yum.repos.d]# cat ys.repo
[yumserver]
name="yumserver"
baseurl=file:///var/ftp/pub/AppStream
gpgcheck=0
enabled=1
[root@server yum.repos.d]#
```

Run below command:

Go to file /etc/selinux/config and edit line 22 and change it to "disabled"

```
14 # to persistently set the bootloader to boot with selinux=0:
15 #
16 # grubby --update-kernel ALL --args selinux=0
17 #
18 # To revert back to SELinux enabled:
19 #
20 # grubby --update-kernel ALL --remove-args selinux
21 #
22 SELINUX=disabled
```

Save and quit, and reboot the server using "init 0" command.

And verify after reboot:

```
[root@server ~]# sestatus

SELinux status: disabled

[root@server ~]#

[root@server ~]# getenforce

Disabled

[root@server ~]#

[root@server ~]#

[root@server ~]#
```

Checking current status:

Now, stopping and disabling firewall.

```
[root@server ~]# systemctl stop firewalld
[root@server ~]#
[root@server ~]# systemctl disable firewalld
Removed "/etc/systemd/system/multi-user.target.wants/firewalld.service".
Removed "/etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service".
[root@server ~]#
[root@server ~]#
[root@server ~]# systemctl is-active firewalld
inactive
```

Checking status:

```
[root@server ~]# systemctl status firewalld
o firewalld.service - firewalld - dynamic firewall daemon
        Loaded: loaded (/usr/lib/systemd/system/firewalld.service; dis>
        Active: inactive (dead)
            Docs: man:firewalld(1)

Sep 13 03:40:58 B1-ACC-TR2-LIN-SRV-173 systemd[1]: Starting firewal>
Sep 13 03:40:58 B1-ACC-TR2-LIN-SRV-173 systemd[1]: Started firewall>
Sep 13 03:43:31 B1-ACC-TR2-LIN-SRV-173 systemd[1]: Stopping firewal>
Sep 13 03:43:31 B1-ACC-TR2-LIN-SRV-173 systemd[1]: firewalld.servic>
Sep 13 03:43:31 B1-ACC-TR2-LIN-SRV-173 systemd[1]: Stopped firewall>
Sep 19 15:38:18 server.training.com systemd[1]: Starting firewalld >
Sep 19 15:39:40 server.training.com systemd[1]: Stopping firewalld >
Sep 19 15:39:40 server.training.com systemd[1]: Stopping firewalld >
Sep 19 15:39:40 server.training.com systemd[1]: Stopped firewalld >
Sep 19 15:39:40 server.training.com systemd[1]: Stopped firewalld ->
Sep 19
```

Hostname:

```
[root@server ~]# hostname
server.training.com
[root@server ~]# _
```

DNS address

```
[root@server ~]# cat /etc/resolv.conf
# Generated by NetworkManager
search training.com
```

Kernel version

```
[root@server ~]# uname -r
5.14.0-583.el9.x86_64
```

Logged in username

```
[root@server ~]# whoami
root
[root@server ~]#
[root@server ~]# who
                     2025-09-16 04:39 (172.22.53.195)
root pts/0
[root@server ~]#
[root@server ~]# w
15:44:40 up 7 days, 3:57,
                            1 user, load average: 0.11, 0.09, 0.04
                  LOGIN@
                                  JCPU PCPU WHAT
USER
        TTY
                           IDLE
root
        pts/0
                  Tue04
                           0.00s
                                  0.50s
                                         0.00s w
[root@server ~]#
```

Current working directory

```
[root@server ~]# pwd
/root
```

Current runlevel

```
[root@server ~]# runlevel
N 5
[root@server ~]#
[root@server ~]# systemctl get-default
graphical.target
[root@server ~]#
```

Currently mounted partitions

```
[root@server ~]# df -h
                            Used Avail Use% Mounted on
Filesystem
                      Size
devtmpfs
                      4.0M
                               0
                                  4.0M
                                          0% /dev
tmpfs
                      1.8G
                               0
                                  1.8G
                                          0% /dev/shm
                      725M
                             13M
                                  712M
tmpfs
                                          2% /run
                                  5.5G
/dev/mapper/cs-root
                      10G
                            4.5G
                                         46% /
                                  1.5G
                                        25% /boot
/dev/sda1
                      2.0G
                            489M
/dev/mapper/cs-home
                                  4.9G
                     5.0G
                             81M
                                          2% /home
                     5.0G
                                  4.9G
/dev/mapper/cs-tmp
                             68M
                                         2% /tmp
                       20G
                             14G
                                  6.4G
                                       68% /var
/dev/mapper/cs-var
                     1022M
                             16K 1022M
                                          1% /boot/efi
/dev/sda2
                                          1% /run/user/42
tmpfs
                      363M
                             52K
                                  363M
                             36K
                                  363M
tmpfs
                      363M
                                         1% /run/user/0
                      6.8G
                             24K
                                  6.5G
                                          1% /lvm1
/dev/mapper/vg-lv1
/dev/mapper/vg-lv2 10G
                            104M 9.9G
                                          2% /lvm2
```

Size of /var (in human readable format).

```
[root@server ~]# du -sh /var
14G /var
```

Installed OS name

```
[root@server ~]# cat /etc/os-release
NAME="CentOS Stream"
VERSION="9"
ID="centos"
ID_LIKE="rhel fedora"
VERSION_ID="9"
PLATFORM_ID="platform:el9"
PRETTY_NAME="CentOS Stream 9"
ANSI_COLOR="0;31"
LOGO="fedora-logo-icon"
CPE_NAME="cpe:/o:centos:centos:9"
HOME_URL="https://centos.org/"
BUG_REPORT_URL="https://issues.redhat.com/"
REDHAT_SUPPORT_PRODUCT="Red Hat Enterprise Linux 9"
REDHAT_SUPPORT_PRODUCT_VERSION="CentOS Stream"
```

First process

```
[root@server ~]# pgrep systemd
1
657
669
884
1120
1303
[root@server ~]# pidof systemd
1309 1303 1127 1120 1
```

Total memory and CPU information

Memory:

```
[root@server ~]# free -h
               total
                             used
                                          free
                                                    shared buff/cache
                                                                          available
                3.5Gi
                            993Mi
                                         252Mi
                                                                  2.6Gi
Mem:
                                                      18Mi
                                                                              2.6Gi
Swap:
               4.0Gi
                            0.0Ki
                                         4.0Gi
```

CPU:

```
[root@server ~]# lscpu
Architecture:
                           x86 64
                           32-bit, 64-bit
  CPU op-mode(s):
                           45 bits physical, 48 bits virtual
  Address sizes:
  Byte Order:
                           Little Endian
CPU(s):
                           2
  On-line CPU(s) list:
                           0,1
                           GenuineIntel
Vendor ID:
  BIOS Vendor ID:
                           GenuineIntel
  Model name:
                           Intel(R) Xeon(R) Platinum 8173M CPU @ 2.00GHz
    BIOS Model name:
                           Intel(R) Xeon(R) Platinum 8173M CPU @ 2.00GHz
    CPU family:
                           85
    Model:
    Thread(s) per core:
                           1
    Core(s) per socket:
                           1
    Socket(s):
                           2
    Stepping:
                           4
                           3990.62
    BogoMIPS:
```

Number of packages in /var/ftp/pub

```
[root@server ~]# cd /var/ftp/pub/
[root@server pub]#
[root@server pub]# ls -R | grep .rpm | wc -l
7429
```

Current working shell

```
[root@server ~]# echo $SHELL
/bin/bash
```

Task Solution – Create a volume group of 20gb by following the standard procedure and use this vg and create 2 LVMs with 12gb (of ext4 file system) and mount it at /std01 and 8gb with XFS file system and mount it at /std02.

Listing current partitions (delete if any already existing):

```
[root@server ~]# lsblk
NAME
             MAJ:MIN RM
                          SIZE RO TYPE MOUNTPOINTS
                           60G
sda
               8:0
                       0
                                 0 disk
                       0
               8:1
                             2G
  -sda1
                                 0 part /boot
  -sda2
               8:2
                       0
                             1G
                                 0 part /boot/efi
                           44G
  -sda3
                       0
               8:3
                                 0 part
    -cs-root 253:0
                       0
                           10G
                                 0 lvm
    -cs-swap 253:1
                                         [SWAP]
                       0
                            4G
                                 0 lvm
                       0
                            5G
                                 0 lvm
    -cs-tmp
             253:2
                                         /tmp
                       0
                                 0 lvm
             253:3
                           20G
                                         /var
    -cs-var
    -cs-home 253:4
                       0
                             5G
                                 0 lvm
                                         /home
                       0
               8:16
                           30G
                                 0 disk
sdb
sdc
               8:32
                       0
                           30G
                                 0 disk
sr0
              11:0
                       1 1024M
                                 0 rom
```

Creating volume group (VG) of 20GB:

```
[root@server ~]# fdisk /dev/sdb
Welcome to fdisk (util-linux 2.37.4).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help): n
Partition type
       primary (0 primary, 0 extended, 4 free)
   p
       extended (container for logical partitions)
   e
Select (default p):
Using default response p.
Partition number (1-4, default 1):
First sector (2048-62914559, default 2048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-62914559, default 62914559):
 +10G
Created a new partition 1 of type 'Linux' and of size 10 GiB.
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
```

Similarly for /dev/sdc

```
[root@server ~]# lsblk /dev/sdb /dev/sdc
       MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
                    30G
sdb
                 0
                         0 disk
         8:16
∟sdb1
         8:17
                 0
                    10G
                         0 part
sdc
         8:32
                 0
                    30G
                         0 disk
         8:33
                 0
                    10G
                         0 part
  sdc1
```

Verify VG:

```
[root@server ~]# pvcreate /dev/sdb1 /dev/sdc1
  Physical volume "/dev/sdb1" successfully created.
 Physical volume "/dev/sdc1" successfully created.
[root@server ~]#
[root@server ~]# vgcreate vg /dev/sdb1 /dev/sdc1
 Volume group "vg" successfully created
[root@server ~]#
[root@server ~]# vgs
  VG #PV #LV #SN Attr
                      VSize VFree
               0 wz--n- 44.00g
       1
                                4.00m
  CS
               0 wz--n- 19.99g 19.99g
  Vq
```

Display default LV:

Creating logical volumes (LV)

```
[root@server ~]# lvcreate -n lv1 -L +12G vg
WARNING: ext4 signature detected on /dev/vg/lv1 at offset 1080. Wipe it? [
y/n]: y
  Wiping ext4 signature on /dev/vg/lv1.
  Logical volume "lv1" created.
[root@server ~]#
[root@server ~]# lvcreate -n lv2 -l 100%FREE vg
WARNING: xfs signature detected on /dev/vg/lv2 at offset 0. Wipe it? [y/n]
: y
  Wiping xfs signature on /dev/vg/lv2.
  Logical volume "lv2" created.
[root@server ~]#
[root@server ~]#
```

Creating EXT4 file system:

Creating XFS file system:

```
[root@server ~]# mkfs.xfs /dev/vg/lv2
                                    isize=512
                                                  agcount=4, agsize=523776 blk
meta-data=/dev/vg/lv2
s
                                    sectsz=512
                                                  attr=2, projid32bit=1
          =
                                                  finobt=1, sparse=1, rmapbt=0
                                    crc=1
                                    reflink=1
                                                  bigtime=1 inobtcount=1 nrext
          64 = 0
                                                  blocks=2095104, imaxpct=25
data
                                    bsize=4096
                                                  swidth=0 blks
                                    sunit=0
naming
         =version 2
                                    bsize=4096
                                                  ascii-ci=0, ftype=1
         =internal log
                                                  blocks=16384, version=2
sunit=0 blks, lazy-count=1
                                    bsize=4096
log
                                    sectsz=512
                                                  blocks=0, rtextents=0
realtime =none
                                    extsz=4096
Discarding blocks...Done.
```

Creating directories for mounting the LVM:

```
[root@server ~]# mkdir /std01 /std02
```

Mounting:

```
[root@server ~]# mount /dev/vg/lv1 /std01
[root@server ~]#
[root@server ~]# mount /dev/vg/lv2 /std02
```

Verify:

```
[root@server ~]# df -hT /std01
                                /std02
                               Used Avail Use% Mounted on
Filesystem
                        Size
                   Type
/dev/mapper/vg-lv1 ext4
                          12G
                                24K
                                      12G
                                            1% /std01
/dev/mapper/vg-lv2 xfs
                         8.0G
                                89M
                                     7.9G
                                            2% /std02
```

Create another 15GB partitions and mounting it to LVM with 8GB.

Listing current partitions:

```
[root@server ~]# lsblk /dev/sdb
           MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
sdb
                            0 disk
                        30G
             8:16
                    0
Lsdb1
                             0 part
             8:17
                    0
                        10G
  └vg-lv1 253:5
                    0
                             0 lvm /std01
                       12G
```

Creating 15GB partition:

```
[root@server ~]# fdisk /dev/sdb
Welcome to fdisk (util-linux 2.37.4).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
This disk is currently in use - repartitioning is probably a bad idea.
It's recommended to umount all file systems, and swapoff all swap
partitions on this disk.
Command (m for help): n
Partition type
       primary (1 primary, 0 extended, 3 free)
   D
       extended (container for logical partitions)
Select (default p):
Using default response p.
Partition number (2-4, default 2):
First sector (20973568-62914559, default 20973568):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (20973568-62914559, default
62914559): +156
Created a new partition 2 of type 'Linux' and of size 15 GiB.
Command (m for help): w
The partition table has been altered.
Syncing disks.
```

```
[root@server ~]# lsblk /dev/sdb
NAME
           MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
sdb
             8:16
                    Θ
                       30G
                            0 disk
             8:17
                    0
                       10G
                            0 part
 -sdb1
   -va-lv1 253:5
                    Θ
                      12G
                            0 lvm /std01
                       15G
  sdb2
             8:18
                    0
                            0 part
```

```
[root@server ~]# pvcreate /dev/sdb2
Physical volume "/dev/sdb2" successfully created.
```

Extending existing VG:

```
[root@server ~]# vgextend vg /dev/sdb2
  Volume group "vg" successfully extended
[root@server ~]#
[root@server ~]# vgs vg
  VG #PV #LV #SN Attr  VSize  VFree
  vg  3  2  0 wz--n- <34.99g <15.00g</pre>
```

Extending current LV and growing the filesystem:

```
[root@server ~]# lvextend -l +100%FREE /dev/vg/lv2
 Size of logical volume vg/lv2 changed from 7.99 GiB (2046 extents) to <22.99 GiB (588
5 extents).
  Logical volume vg/lv2 successfully resized.
[root@server ~]#
[root@server ~]# xfs_growfs /std02
meta-data=/dev/mapper/vg-lv2
                                              agcount=4, agsize=523776 blks
                                 isize=512
         =
                                 sectsz=512
                                              attr=2, projid32bit=1
                                              finobt=1, sparse=1, rmapbt=0
         =
                                 crc=1
                                              bigtime=1 inobtcount=1 nrext64=0
                                 reflink=1
         _
                                              blocks=2095104, imaxpct=25
data
                                 bsize=4096
                                              swidth=0 blks
                                 sunit=0
                                 bsize=4096
naming
         =version 2
                                              ascii-ci=0, ftype=1
                                              blocks=16384, version=2
         =internal log
                                 bsize=4096
log
                                              sunit=0 blks, lazy-count=1
                                 sectsz=512
realtime =none
                                 extsz=4096
                                              blocks=0, rtextents=0
data blocks changed from 2095104 to 6026240
[root@server ~]# df -hT /std02
Filesystem
                   Type
                         Size
                               Used Avail Use% Mounted on
                               197M 23G 1% /std02
/dev/mapper/vg-lv2 xfs
                         23G
```

Creating a new 5GB partition:

```
[root@server ~]# fdisk /dev/sdc
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
This disk is currently in use - repartitioning is probably a bad idea.
It's recommended to umount all file systems, and swapoff all swap
partitions on this disk.
Command (m for help): n
Partition type
      primary (1 primary, θ extended, 3 free)
  extended (container for logical partitions)
Select (default p):
Using default response p.
Partition number (2-4, default 2):
First sector (20973568-62914559, default 20973568):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (20973568-62914559, default 62914559): +5G
Created a new partition 2 of type 'Linux' and of size 5 GiB.
Command (m for help): w
The partition table has been altered.
Syncing disks.
```

Verify:

```
[root@server ~]# lsblk /dev/sdc
            MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
                               0 disk
                      0
                         30G
sdc
              8:32
              8:33
                      0
                          10G
                               0 part
 -sdc1
                      0
    -vg-lv1 253:5
                          12G
                               0 lvm
                                       /std01
                      0
    vg-lv2 253:6
                          23G
                               0 lvm
                                       /std02
  sdc2
              8:34
                      0
                          5G
                               0 part
```

Creating XFS file system and mount point:

```
[root@server ~]# mkfs.xfs /dev/sdc2
                                   isize=512
meta-data=/dev/sdc2
                                                 agcount=4, agsize=327680 blks
                                   sectsz=512
                                                 attr=2, projid32bit=1
         =
                                                 finobt=1, sparse=1, rmapbt=0
bigtime=1 inobtcount=1 nrext64=0
         =
                                   crc=1
         =
                                   reflink=1
                                                 blocks=1310720, imaxpct=25
                                   bsize=4096
data
         =
                                   sunit=0
                                                 swidth=0 blks
                                   bsize=4096
         =version 2
                                                 ascii-ci=0, ftype=1
naming
                                                 blocks=16384, version=2
         =internal log
                                   bsize=4096
log
                                   sectsz=512
                                                 sunit=0 blks, lazy-count=1
                                   extsz=4096
realtime =none
                                                 blocks=0, rtextents=0
Discarding blocks...
Done.
[root@server ~]#
[root@server ~]# mkdir /sharedDir
```

Verify:

Task Solution – Create a directory in /shareddir and allow the following.

- RWX permission to owner and group.
- No read, no write and no execute permissions to others.
- Allow read only access to hr group (create hr group, if not present).
- Allow read-write access to sales group (create, if not done already).

RWX permission to owner and group & No read, no write and no execute permissions to others.

```
[root@server ~]# ls -ld /sharedDir
drwxr-xr-x 2 root root 6 Sep 19 16:38 /sharedDir
[root@server ~]#
[root@server ~]# chmod 770 /sharedDir
[root@server ~]# ls -ld /sharedDir
drwxrwx--- 2 root_root 6 Sep 19 16:38 /sharedDir
```

Checking and creating HR & sales groups:

```
[root@server ~]# cat /etc/group | grep HR
[root@server ~]# cat /etc/group | grep sales
[root@server ~]#
[root@server ~]# groupadd HR
[root@server ~]# groupadd sales
[root@server ~]#
[root@server ~]# cat /etc/group | grep HR
HR:x:5016:
[root@server ~]# cat /etc/group | grep sales
sales:x:5017:
```

Current permissions:

```
[root@server ~]# ls -ld /sharedDir
drwxrwx--- 2 root root 6 Sep 19 16:38 /sharedDir
[root@server ~]#
[root@server ~]# getfacl /sharedDir
getfacl: Removing leading '/' from absolute path names
# file: sharedDir
# owner: root
# group: root
user::rwx
group::rwx
other::---
```

Applying ACL:

```
[root@server ~]# getfacl /sharedDir
getfacl: Removing leading '/' from absolute path names
# file: sharedDir
# owner: root
# group: root
user::rwx
group::rwx
other::---
[root@server ~]# setfacl -m g:HR:r-- /sharedDir
[root@server ~]# setfacl -m g:sales:rw- /sharedDir
[root@server ~]# getfacl /sharedDir
getfacl: Removing leading '/' from absolute path names
# file: sharedDir
# owner: root
# group: root
user::rwx
group::rwx
group:HR:r--
group:sales:rw-
mask::rwx
other::---
```

Enabling, starting and checking status if firewall is ON or NOT.

```
[root@server ~]# systemctl enable firewalld
Created symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service → /usr/li
b/systemd/system/firewalld.service.
Created symlink /etc/systemd/system/multi-user.target.wants/firewalld.service → /usr/li
b/systemd/system/firewalld.service.
[root@server ~]#
[root@server ~]# systemctl start firewalld
[root@server ~]# systemctl status firewalld
firewalld.service - firewalld - dynamic firewall daemon
     Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; preset: enabl>
     Active: active (running) since Fri 2025-09-19 17:59:35 IST; 3s ago
       Docs: man:firewalld(1)
   Main PID: 2821063 (firewalld)
      Tasks: 2 (limit: 22780)
     Memory: 23.1M
        CPÚ: 530ms
     CGroup: /system.slice/firewalld.service
               -2821063 /usr/bin/python3 -s /usr/sbin/firewalld --nofork --nopid
```

Checking all default firewall entries:

```
[root@server ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: ens160
  sources:
  services: cockpit dhcpv6-client ssh
 ports:
 protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@server ~]#
```

Adding all firewall ports and services and restarting firewall.

```
[root@server ~]# firewall-cmd --add-port=80/tcp --permanent
success
[root@server ~]# firewall-cmd --add-port=443/tcp --permanent
success
[root@server ~]# firewall-cmd --add-port=22/tcp --permanent
[root@server ~]# firewall-cmd --add-port=123/tcp --permanent
success
[root@server ~]# firewall-cmd --add-service=samba --permanent
success
[root@server ~]# firewall-cmd --reload
success
[root@server ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: ens160
  sources:
 services: cockpit dhcpv6-client samba ssh
  ports: 80/tcp 443/tcp 22/tcp 123/tcp
  protocols:
  forward: yes
```