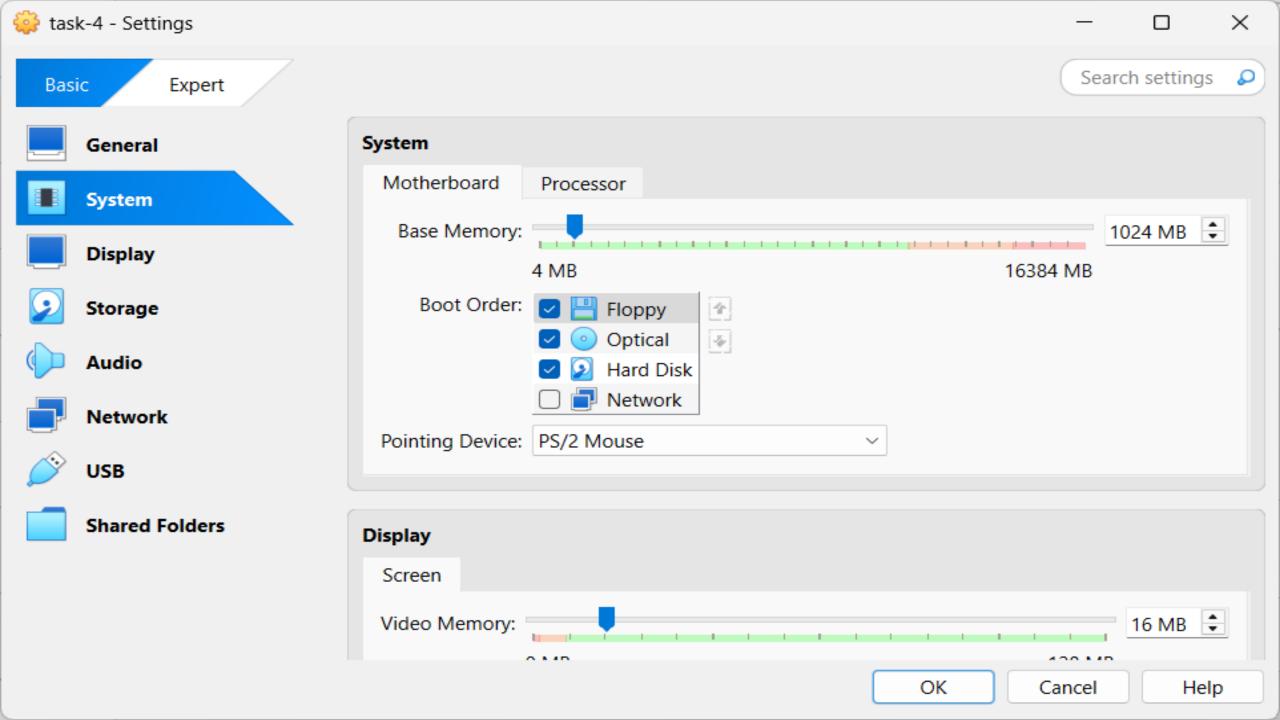
Task-4

```
VM1 (lampstack) => 1GB RAM, 1CPU, 25GB, install rocky linux 8.x
        => /boot => 2GB
                 swap => 2GB
                      / => 15GB
        => set hostname: lampserver
        => configure static IP from your network address space.
               => test network connectivity between server and internet
               => enable required repository
               => test repositories
               => apache httpd
                 php 7.4
                     mysql/mariadb
        => verify software packages installed or not
               => add 3GB lvm volume and mount it on /var/www/html
```

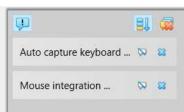


```
Rocky Linux 8.10 (Green Obsidian)
Kernel 4.18.0-553.44.1.el8_10.x86_64 on an x86_64
mahendra login: root
Password:
Last login: Thu Mar 20 03:40:45 on tty1
[root@mahendra ~1# ls
anaconda-ks.cfg
[root@mahendra~]# lsblk
NAME
                          MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
                           8:0 0 64G 0 disk
8:1 0 2G 0 part /boot
 -sda1
 -sda2
                           8:2 0 37G 0 part
253:0 0 15G 0 lvm /
  | rl lampserver-root 253:0 0 15G 0 lvm /
| rl lampserver-swap 253:1 0 2G 0 lvm [SWAP]
| rl lampserver-home 253:2 0 20G 0 lvm /home
                           8:16 Ø 16G Ø disk
                          253:3 0 3G 0 lvm
 -mahi-nani
                          11:0 1 1024M 0 rom
[root@mahendra ~]#
```





```
inet6 fe80::a00:27ff:fecc:58c6/64
        route6 fe80::/64 metric 1024
       route6 fd00::/64 metric 100
       route6 default via fe80::2 metric 100
 o: unmanaged
        loopback (unknown), 00:00:00:00:00:00, sw, mtu 65536
DNS configuration:
       servers: 8.8.8.8 10.0.2.3
        interface: enp0s3
Use "nmcli device show" to get complete information about known devices and
"nmcli connection show" to get an overview on active connection profiles.
Consult nmcli(1) and nmcli-examples(7) manual pages for complete usage details.
[root@Lampserver ~]# nmcli con down enp@s3
Connection 'enp0s3' successfully deactivated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/1)
Iroot@Lampserver ~1# nmcli con up enp0s3
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/2)
[root@Lampserver ~]# nmcli
enp0s3: connected to enp0s3
        "Intel 82540EM"
       ethernet (e1000), 08:00:27:CC:58:C6, hw, mtu 1500
        ip4 default, ip6 default
        inet4 10.0.2.15/24
        inet4 192.168.1.0/24
       route4 192.168.1.0/24 metric 100
       route4 default via 192.168.1.1 metric 100
       route4 10.0.2.0/24 metric 100
       inet6 fd00::a00:27ff:fecc:58c6/64
        inet6 fe80::a00:27ff:fecc:58c6/64
       route6 fe80::/64 metric 1024
       route6 fd00::/64 metric 100
       route6 default via fe80::2 metric 100
        loopback (unknown), 00:00:00:00:00:00, sw, mtu 65536
DNS configuration:
       servers: 8.8.8.8 10.0.2.3
       interface: enp0s3
Use "nmcli device show" to get complete information about known devices and
"nmcli connection show" to get an overview on active connection profiles.
Consult nmcli(1) and nmcli-examples(7) manual pages for complete usage details.
[root@Lampserver ~]#
```







Package	Architecture	Version	Repos i tory	Size
Installing: epel-release	noarch	8-18.el8	extras	24 k
Transaction Summary				
Install 1 Packaye				========
Total download size: 24 k Installed size: 35 k Downloading Packages: epel-release-8-18.e18.noarch.rpm			169 kB∠s I 24 kB	00:00
Total Running transaction check Transaction check succeeded. Running transaction test Transaction test Running transaction Preparing Installing Running crelease-8- Running scriptlet: epel-release-8- Tany EPEL packages require the Codel It is recommended that you run /usr/	-18.e18.noarch Beady Builder (CRB) reposi		3.9 kB∕s 24 kB	00:06 1/1 1/1 1/1
Verifying : epel-release-8-	-18.el8.noarch			1/1
installed: epel-release-8-18.el8.noarch				
Complete! [root@Lampserver ~1# dnf config-mand [root@Lampserver ~1# dnf repolist repo id appstream baseos epel extras powertools [root@Lampserver ~1# dnf install -y Rocky Linux 8 - PowerTools Extra Packages for Enterprise Linux	httpd	repo name Rocky Linux 8 - AppStream Rocky Linux 8 - BaseOS Extra Packages for Enterprise Linux 8 - x86_64 Rocky Linux 8 - Extras Rocky Linux 8 - PowerTools	1.8 MB/s I 3.9 MB 2.1 MB/s I 14 MB	00:02 00:06
extra Packages for Enterprise Linux Last metadata expiration check: 0:00 Package httpd-2.4.37-65.module+el8.1 Dependencies resolved. Nothing to do. Complete! [root@Lampserver~]#	3:02 ago on Saturday 15 Ma		2.1 MB/S 1 14 MB	oo: oo

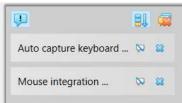


- ō ×





Transaction Summary Install 1 Package Total download size: 24 k Installed size: 35 k Downloading Packages: epel-release-8-18.el8.noarch.rpm 169 kB/s I 24 kB 00:00 Total 3.9 kB/s | 24 kB 00:06 Running transaction check Transaction check succeeded. Running transaction test Transaction test succeeded. Running transaction Preparing Installing 1/1 : epel-release-8-18.el8.noarch Running scriptlet: epel-release-8-18.el8.noarch Many EPEL packages require the CodeReady Builder (CRB) repository. It is recommended that you run /usr/bin/crb enable to enable the CRB repository. Verifying : epel-release-8-18.el8.noarch Installed: epel-release-8-18.el8.noarch Complete! [root@Lampserver ~1# dnf config-manager --set-enabled powertools [root@Lampserver ~]# dnf repolist repo id repo name Rocky Linux 8 - AppStream appstream Rocky Linux 8 - BaseOS baseos Extra Packages for Enterprise Linux 8 - x86_64 epel Rocky Linux 8 - Extras extras Rocky Linux 8 - PowerTools powertools [root@Lampserver ~]# dnf install -y httpd Rocky Linux 8 - PowerTools 1.8 MB/s | 3.9 MB 00:02 Extra Packages for Enterprise Linux 8 - x86_64 2.1 MB/s | 14 MB 00:06 Last metadata expiration check: 0:00:02 ago on Saturday 15 March 2025 10:59:25 PM EDT. Package httpd-2.4.37-65.module+e18.10.0+1938+3b7755d4.3.x86 64 is already installed. Dependencies resolved. Nothing to do. Complete! [root@Lampserver ~]# ststemctl enable --now httpd -bash: ststemctl: command not found [root@Lampserver ~]# systemctl enable --now httpd Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service. [root@Lampserver ~]# firewall-cmd --permanent --add-service=httpd Error: INVALID_SERVICE: 'httpd' not among existing services [root@Lampserver ~]#







- 0

File Machine View Input Devices Help

Last metadata expiration check: 7:19:04 ago on Saturday 15 March 2025 10:59:25 PM EDT. Error: Problems in request: missing groups or modules: php:remi-8.2 [root@Lampserver ~1# yum module reset php Last metadata expiration check: 7:19:24 ago on Saturday 15 March 2025 10:59:25 PM EDT. Dependencies resolved. Nothing to do. Complete! [root@Lampserver ~1# yum module enable php:remi-8.2 Last metadata expiration check: 7:19:28 ago on Saturday 15 March 2025 10:59:25 PM EDT. Error: Problems in request: missing groups or modules: php:remi-8.2 [root@Lampserver ~1# yum install -y https://rpms.remirepo.net/enterprise/remi-release-8.rpm Last metadata expiration check: 7:20:23 ago on Saturday 15 March 2025 10:59:25 PM EDT. remi-release-8.rpm 2.8 kB/s 1 37 kB 00:13 Dependencies resolved. Architecture Version Repository Installing: remi-release noarch 8.10-2.e18.remi Ocommandline 37 k Transaction Summary Install 1 Package Total size: 37 k Installed size: 34 k Downloading Packages: Running transaction check Transaction check succeeded. Running transaction test Transaction test succeeded. Running transaction Preparing Installing : remi-release-8.10-2.el8.remi.noarch Verifying : remi-release-8.10-2.el8.remi.noarch Installed: remi-release-8.10-2.el8.remi.noarch Complete! [root@Lampserver ~1# yum module reset php Remi's Modular repository for Enterprise Linux 8 - x86_64 345 kB/s | 1.0 MB 00:03 Safe Remi's RPM repository for Enterprise Linux 8 - x86_64 16 kB/s | 2.2 MB 02:15 Last metadata expiration check: 0:00:02 ago on Sunday 16 March 2025 06:22:32 AM EDT. Dependencies resolved. Nothing to do. Complete! [root@Lampserver ~]# i





```
No match for argument: phd-curl
Package php-mbstring-8.2.28-1.e18.remi.x86_64 is already installed.
Package php-xml-8.2.28-1.el8.remi.x86_64 is already installed.
Error: Unable to find a match: php-mgsglnd phd-curl
Eroot@Lampserver ~1# yum instalî -y php-curî php-mysqlnd
Last metadata expiration check: 0:04:25 ago on Sunday 16 March 2025 06:22:32 AM EDT.
Package php-common-8.2.28-1.e18.remi.x86_64 is already installed.
Dependencies resolved.
                                    Architecture
                                                                   Version
Installing:
                                    x86_64
                                                                   8.2.28-1.el8.remi
                                                                                                                                                    266 k
php-mysqlnd
                                                                                                               remi-modular
Transaction Summary
 Install 1 Package
Total download size: 266 k
Installed size: 887 k
Downloading Packages:
php-mysglnd-8.2.28-1.el8.remi.x86 64.rpm
                                                                                                                           152 kB/s | 266 kB
                                                                                                                                                00:01
Total
                                                                                                                           111 kB/s | 266 kB
                                                                                                                                                00:02
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing
 Installing
                  : php-mysqlnd-8.2.28-1.el8.remi.x86_64
 Running scriptlet: php-mysqlnd-8.2.28-1.e18.remi.x86_64
                 : php-mysqlnd-8.2.28-1.el8.remi.x86_64
 Verifying
Installed:
 php-mysqlnd-8.2.28-1.el8.remi.x86_64
Complete!
[root@Lampserver ~]# yum install -y php-curl
Last metadata expiration check: 0:04:36 ago on Sunday 16 March 2025 06:22:32 AM EDT.
Package php-common-8.2.28-1.el8.remi.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@Lampserver ~]# php -v
PHP 8.2.28 (cli) (built: Mar 11 2025 17:58:12) (NTS gcc x86_64)
Copyright (c) The PHP Group
Zend Engine 🗸.2.28, Copyright (c) Zend Technologies
   with Zend OPcache v8.2.28, Copyright (c), by Zend Technologies
[root@Lampserver ~]#
```





```
Verifying
                   : perl-Term-ANSIColor-4.06-396.el8.noarch
                                                                                                                                                          41/54
 Verifying
                   : perl-Term-Cap-1.17-395.el8.noarch
                                                                                                                                                          42/54
 Verifying
                   : perl-Text-ParseWords-3.30-395.el8.noarch
                                                                                                                                                          43/54
                   : perl-Text-Tabs+Wrap-2013.0523-395.e18.noarch
                                                                                                                                                          44/54
 Verifying
                   : perl-Time-Local-1:1.280-1.el8.noarch
                                                                                                                                                          45/54
 Verifying
                   : perl-Unicode-Normalize-1.25-396.el8.x86_64
                                                                                                                                                          46/54
 Verifying
 Verifying
                   : perl-constant-1.33-396.el8.noarch
                                                                                                                                                          47/54
                   : perl-interpreter-4:5.26.3-422.e18.x86_64
                                                                                                                                                          48/54
 Verifying
                                                                                                                                                          49/54
 Verifying
                   : perl-libs-4:5.26.3-422.e18.x86 64
                                                                                                                                                          50/54
 Verifying
                  : perl-macros-4:5.26.3-422.e18.x86_64
                                                                                                                                                          51/54
 Verifying
                  : perl-parent-1:0.237-1.el8.noarch
 Verifying
                  : perl-podlators-4.11-1.el8.noarch
                                                                                                                                                          52/54
                                                                                                                                                          53/54
 Verifying
                  : perl-threads-1:2.21-2.e18.x86_64
 Verifying
                  : perl-threads-shared-1.58-2.e18.x86_64
                                                                                                                                                          54/54
installed:
 mariadb-3:10.3.39-1.module+e18.8.0+1452+2a7eab68.x86 64
                                                                                     mariadb-backup-3:10.3.39-1.module+e18.8.0+1452+2a7eab68.x86_64
 mariadb-common-3:10.3.39-1.module+e18.8.0+1452+2a7eab68.x86 64
                                                                                     mariadb-connector-c-3.1.11-2.e18 3.x86 64
 mariadb-connector-c-config-3.1.11-2.e18_3.noarch
                                                                                     mariadb-errmsg-3:10.3.39-1.module+e18.8.0+1452+2a7eab68.x86_64
 mariadb-gssapi-server-3:10.3.39-1.module+e18.8.0+1452+2a7eab68.x86 64
                                                                                     mariadb-server-3:10.3.39-1.module+e18.8.0+1452+2a7eab68.x86 64
 mariadb-server-utils-3:10.3.39-1.module+e18.8.0+1452+2a7eab68.x86 64
                                                                                     per1-Carp-1.42-396.e18.noarch
 per1-DBD-MySQL-4.046-3.module+e18.9.0+1501+450eec3b.x86_64
                                                                                     per1-DBI-1.641-4.module+e18.9.0+1495+f278a004.x86 64
 per1-Data-Dumper-2.167-399.e18.x86_64
                                                                                     perl-Digest-1.17-395.el8.noarch
 per1-Digest-MD5-2.55-396.e18.x86_64
                                                                                     per1-Encode-4:2.97-3.e18.x86 64
 per1-Errno-1.28-422.e18.x86 64
                                                                                     per1-Exporter-5.72-396.e18.noarch
 perl-File-Path-2.15-2.el8.noarch
                                                                                     per1-File-Temp-0.230.600-1.el8.noarch
 perl-Getopt-Long-1:2.50-4.el8.noarch
                                                                                     per1-HTTP-Tiny-0.074-3.e18.noarch
 per1-I0-1.38-422.e18.x86 64
                                                                                     per1-IO-Socket-IP-0.39-5.e18.noarch
 per1-IO-Socket-SSL-2.066-4.module+e18.9.0+1517+e71a7a62.noarch
                                                                                     per1-MIME-Base64-3.15-396.e18.x86 64
 perl-Math-BigInt-1:1.9998.11-7.el8.noarch
                                                                                     perl-Math-Complex-1.59-422.el8.noarch
 perl-Mozilla-CA-20160104-7.module+el8.9.0+1521+0101edce.noarch
                                                                                     perl-Net-SSLeay-1.88-2.module+e18.9.0+1517+e71a7a62.x86 64
 perl-PathTools-3.74-1.e18.x86 64
                                                                                     perl-Pod-Escapes-1:1.07-395.el8.noarch
                                                                                     perl-Pod-Simple-1:3.35-395.el8.noarch
 per1-Pod-Per1doc-3.28-396.e18.noarch
                                                                                     perl-Scalar-List-Utils-3:1.49-2.el8.x86 64
 per1-Pod-Usage-4:1.69-395.e18.noarch
                                                                                     per1-Storable-1:3.11-3.e18.x86_64
 per1-Socket-4:2.027-3.e18.x86_64
 perl-Term-ANSIColor-4.06-396.el8.noarch
                                                                                     perl-Term-Cap-1.17-395.el8.noarch
 per1-Text-ParseWords-3.30-395.e18.noarch
                                                                                     perl-Text-Tabs+Wrap-2013.0523-395.e18.noarch
 perl-Time-Local-1:1.280-1.el8.noarch
                                                                                     per 1-URI-1.73-3.e18.noarch
 perl-Unicode-Normalize-1.25-396.e18.x86_64
                                                                                     perl-constant-1.33-396.el8.noarch
 per1-interpreter-4:5.26.3-422.e18.x86 64
                                                                                     perl-libnet-3.11-3.el8.noarch
 per1-libs-4:5.26.3-422.e18.x86_64
                                                                                     per1-macros-4:5.26.3-422.e18.x86_64
 perl-parent-1:0.237-1.el8.noarch
                                                                                     perl-podlators-4.11-1.el8.noarch
 per1-threads-1:2.21-2.e18.x86 64
                                                                                     per1-threads-shared-1.58-2.e18.x86 64
Complete!
[root@Lampserver ~]# systemctl enable --now mariadb
Created symlink /etc/systemd/system/mysql.service → /usr/lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/mysqld.service → /usr/lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /usr/lib/systemd/system/mariadb.service.
[root@Lampserver ~]#
```





Rocky Linux 8.10 (Green Obsidian) Kernel 4.18.0-553.e18_10.x86_64 on an x86_64 Lampser∨er login: root Password: Last login: Sun Mar 16 06:07:02 on tty1 Troot@Lampserver "1# yum install -y mariadb-server Last metadata expiration check: 0:23:15 ago on Sunday 16 March 2025 06:22:32 AM EDT. Package mariadb-server-3:10.3.39-1.module+el8.8.0+1452+2a7eab68.x86_64 is already installed. Dependencies resolved. Nothing to do. Complete! Iroot@Lampserver ~1# systemct1 enable --now mariadb
Iroot@Lampserver ~1#



```
[root@Lampserver ~]# systemctl status --now mariadb
• mariadb.service - MariaDB 10.3 database server
  Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; vendor preset: disabled)
  Active: active (running) since Sun 2025-03-16 06:43:58 EDT; 6min ago
    Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
Main PID: 1137 (mysqld)
  Status: "Taking your SQL requests now..."
Tasks: 30 (limit: 12359)
  Memory: 99.3M
  CGroup: /system.slice/mariadb.service
           L1137 /usr/libexec/mysqld --basedir=/usr
Mar 16 06:43:56 Lampserver systemd[1]: Starting MariaDB 10.3 database server...
Mar 16 06:43:57 Lampserver mysql-check-socket[818]: Socket file /var/lib/mysql/mysql.sock exists.
Mar 16 06:43:57 Lampserver mysql-check-socket[818]: No process is using /var/lib/mysql/mysql/sock, which means it is a garbage, so it will be removed automatic
Mar 16 06:43:57 Lampserver mysql-prepare-db-dir[870]: Database MariaDB is probably initialized in /var/lib/mysql already, nothing is done.
Mar 16 06:43:57 Lampserver mysql-prepare-db-dir[870]: If this is not the case, make sure the /var/lib/mysql is empty before running mysql-prepare-db-dir.
Mar 16 06:43:58 Lampserver systemd[1]: Started MariaDB 10.3 database server.
| Lroot@Lampserver "l# php -v
| PHP 8.2.28 (cli) (built: Mar 11 2025 17:58:12) (NTS gcc x86_64)
Copyright (c) The PHP Group
Zend Engine v4.2.28, Copyright (c) Zend Technologies
   with Zend OPcache v8.2.28, Copyright (c), by Zend Technologies
[root@Lampserver ~]# httpd -v
Server version: Apache/2.4.37 (Rocky Linux)
Server built: Feb 19 2025 20:07:52
[root@Lampserver "]# mysql --version
mysql  Ver 15.1 Distrib 10.3.39-MariaDB, for Linux (x86_64) using readline 5.1
[root@Lampserver ~]#
```





```
Rocky Linux 8.10 (Green Obsidian)
Kernel 4.18.0-553.el8_10.x86_64 on an x86_64
Lampserver login: root
Password:
Last login: Tue Mar 18 02:12:47 on tty1
[root@Lampserver ~]# lsblk
NAME
                     MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda
                       8:0 0 64G 0 disk
                      8:1 0 2G 0 part /boot
 -sda1
                      8:2 0 37G 0 part
 Hrl_lampserver-root 253:0 0 15G 0 lvm /
   -rl_lampserver-swap 253:1 0 2G 0 lvm [SWAP]
   -r1_lampserver-home 253:2 0 20G 0 lvm /home
                      8:16 0 16G 0 disk
                      11:0 1 1024M 0 rom
[root@Lampserver ~]# pvcreate /dev/sdb
Physical volume "/dev/sdb" successfully created.
[root@Lampserver ~]# vgcreate mahi /dev/sdb
 Volume group "mahi" successfully created
[root@Lampserver ~]# pvs
                         Fmt Attr PSize PFree
 /dev/sda2 rl_lampserver lvm2 a-- 36.99g
                         lvm2 a-- <16.00g <16.00g
 /dev/sdb mahi
[root@Lampserver ~]# lvs
 LU UG
                   Attr
                              LSize Pool Origin Data: Meta: Move Log Cpy:Sync Convert
 home rl_lampserver -wi-ao---- 19.99g
 root rl_lampserver -wi-ao---- 15.00g
 swap rl_lampserver -wi-ao---- 2.00g
[root@Lampserver ~1# vgs
              #PV #LV #SN Attr USize UFree
                1 0 0 wz--n- <16.00g <16.00g
 rl_lampserver 1 3 0 wz--n- 36.99g
[root@Lampserver ~]# ~
```



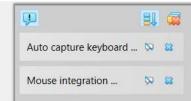


```
Password:
Last login: Tue Mar 18 02:23:57 on tty1
[root@Lampserver ~]# lvs
 LU UG
                               LSize Pool Origin Data: Meta: Move Log Cpy:Sync Convert
                    Attr
 nani mahi
                    -wi-a---- 3.00g
 home rl lampserver -wi-ao---- 19.99q
 root rl_lampserver -wi-ao---- 15.00g
 swap rl_lampserver -wi-ao---- 2.00g
[root@Lampserver ~]#
Display all 1265 possibilities? (y or n)
[root@Lampserver ~]#
[root@Lampserver ~]# lvs
 LU UG
                    Attr
                               LSize Pool Origin Data: Meta: Move Log Cpy:Sync Convert
 nani mahi
                    -wi-a---- 3.00g
 home rl lampserver -wi-ao---- 19.99q
 root rl_lampserver -wi-ao---- 15.00g
 swap rl_lampserver -wi-ao---- 2.00g
[root@Lampserver ~]# mkfs.xfs /dev/mahi/nani
meta-data=/dev/mahi/nani
                                isize=512 agcount=4, agsize=196608 blks
                                sectsz=512 attr=2, projid32bit=1
crc=1 finobt=1, sparse=1, rmapbt=0
                                            bigtime=0 inobtcount=0
                                reflink=1
data
                                bsize=4096 blocks=786432, imaxpct=25
                                sunit=0
                                             swidth=0 blks
                                bsize=4096 ascii-ci=0, ftype=1
naming =version 2
                                bsize=4096 blocks=2560, version=2
        =internal log
                                sectsz=512 sunit=0 blks, lazy-count=1
                                extsz=4096 blocks=0, rtextents=0
realtime =none
[root@Lampserver ~]# mkdir /lvl1
[root@Lampserver ~]# mount + /dev/mahi/nani /lvl1
mount: bad usage
Try 'mount --help' for more information.
[root@Lampserver ~ ]# mount /dev/mahi/nani /lvl1
[root@Lampserver ~]# cd /lvl1
[root@Lampserver lvl1]# ls
[root@Lampserver lvl1]# unmount /dev/mahi/nani /lvl1
-bash: unmount: command not found
[root@Lampserver lvl1]# unmount /lvl1
-bash: unmount: command not found
[root@Lampserver lvl1]# umount /lvl1
umount: /lvl1: target is busy.
[root@Lampserver lvl1]# umount /lvl1
umount: /lvl1: target is busy.
[root@Lampserver lvl1]# cd ..
[root@Lampserver /]# umount /lvl1
[root@Lampserver /]# mkdir /var/www/html
mkdir: cannot create directory '/var/www/html': File exists
[root@Lampserver /]# mkdir -p /var/www/html
[root@Lampserver /]# mount /dev/mahi/nani /var/www/html
[root@Lampserver /]#
```





Setting the root password ensures that nobody can log into the MariaDB root user without the proper authorisation. Set root password? [Y/n] y New password: Re-enter new password: Password updated successfully! Reloading privilege tables.. ... Success! By default, a MariaDB installation has an anonymous user, allowing anyone to log into MariaDB without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment. Remove anonymous users? [Y/n] y ... Success! Mormally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot quess at the root password from the network. Disallow root login remotely? [Y/n] y ... Success! By default, MariaDB comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment. Remove test database and access to it? [Y/n] y Dropping test database... ... Success! Removing privileges on test database... Reloading the privilege tables will ensure that all changes made so far will take effect immediately. Reload privilege tables now? [Y/n] y ... Success! Cleaning up... All done! If you've completed all of the above steps, your MariaDB installation should now be secure. Thanks for using MariaDB! [root@mahendra ~]# mysql -u root -p Enter password:







```
installation should now be secure.
Thanks for using MariaDB!
[root@mahendra ~]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \q.
Your MariaDB connection id is 16
Server version: 10.3.39-MariaDB MariaDB Server
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help:' or 'Nh' for help. Type 'Nc' to clear the current input statement.
MariaDB [(none)]> CREATE DATABASE lampdb;
ERROR 1007 (HY000): Can't create database 'lampdb'; database exists
MariaDB [(none)]> CREATE USER 'wordpress'@'%' IDENTIFIED BY 'Wordpress321#';
ERROR 1396 (HY000): Operation CREATE USER failed for 'wordpress'@'%'
MariaDB [(none)]> SELECT user, host FROM mysql.user;
 -----
 user
           1 host
 | wordpress | %
          1 127.0.0.1 1
 root
 root
          1::1
 root | localhost |
4 rows in set (0.001 sec)
MariaDB [(none)]> GRANT ALL PRIVILEGES ON lampdb.* to 'wordpress'@'%';
Query OK, 0 rows affected (0.000 sec)
MariaDB [(none)]> FLUSH PRIVILEGES:
Query OK, 0 rows affected (0.001 sec)
MariaDB [(none)]> SHOW DATABASES:
 Database
 | information_schema |
 lampdb
 mysql
 performance schema |
4 rows in set (0.003 sec)
```

Rocky Linux 8.10 (Green Obsidian) Kernel 4.18.0-553.el8_10.x86_64 on an x86_64 mahendra login: root Password: Last login: Thu Mar 20 03:37:55 on tty1 [root@mahendra ~]# mysql -u wordpress -p Enter password: ERROR 1045 (28000): Access denied for user 'wordpress'@'localhost' (using password: YES) [root@mahendra ~]# mysql -u wordpress -p ERROR 1045 (28000): Access denied for user 'wordpress'@'localhost' (using password: YES) [root@mahendra ~1# mysql -u wordpress -p Enter password: ERROR 1045 (28000): Access denied for user 'wordpress'@'localhost' (using password: YES) [root@mahendra ~]# mysql -u wordpress -p'Wordpress321#' -e "SHOW DATABASES;" ERROR 1045 (28000): Access denied for user 'wordpress'@'localhost' (using password: YES) [root@mahendra ~]# mysql -u wordpress -p'wordpress321#' -e "SHOW DATABASES;" Database information_schema | lampdb [root@mahendra ~]#





task-4 [Running] - Oracle VirtualBox

```
[root@mahendra ~1# systemctl status httpd
 httpd.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
 Drop-In: /etc/systemd/system/httpd.service.d
           ∟php-fpm.conf
  Active: active (running) since Sun 2025-03-23 02:46:22 EDT; 1h 33min ago
    Docs: man:httpd.service(8)
Main PID: 2053 (httpd)
  Status: "Total requests: 3; Idle/Busy workers 100/0; Requests/sec: 0.000537; Bytes served/sec: 0 B/sec"
   Tasks: 278 (limit: 18824)
  Memory: 35.6M
  CGroup: /system.slice/httpd.service
           -2053 /usr/sbin/httpd -DFOREGROUND
            -2055 /usr/sbin/httpd -DFOREGROUND
            –2056 /usr/sbin/httpd -DFOREGROUND
            -2057 /usr/sbin/httpd -DFOREGROUND
            -2058 /usr/sbin/httpd -DFOREGROUND
           └2270 /usr/sbin/httpd -DFOREGROUND
Mar 23 02:46:22 mahendra systemd[1]: httpd.service: Succeeded.
Mar 23 02:46:22 mahendra systemd[1]: Stopped The Apache HTTP Server.
Mar 23 02:46:22 mahendra systemd[1]: Starting The Apache HTTP Server...
Mar 23 02:46:22 mahendra httpd[2053]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using fe80::a00:27ff:fecd:3ac. Set
Mar 23 02:46:22 mahendra systemd[1]: Started The Apache HTTP Server.
Mar 23 02:46:23 mahendra httpd[2053]: Server configured, listening on: port 80
[root@mahendra ~]# systemctl status mariadb
 mariadb.service - MariaDB 10.3 database server
  Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; vendor preset: disabled)
  Active: active (running) since Sun 2025-03-23 00:40:57 EDT; 3h 38min ago
    Docs: man:mysqld(8)
          https://mariadb.com/kb/en/library/systemd/
 Process: 1395 ExecStartPost=/usr/libexec/mysql-check-upgrade (code=exited, status=0/SUCCESS)
 Process: 907 ExecStartPre=/usr/libexec/mysql-prepare-db-dir mariadb.service (code=exited, status=0/SUCCESS)
 Process: 857 ExecStartPre=/usr/libexec/mysql-check-socket (code=exited, status=0/SUCCESS)
Main PID: 1174 (mysqld)
  Status: "Taking your SQL requests now...'
   Tasks: 30 (limit: 18824)
  Memory: 103.2M
  CGroup: /system.slice/mariadb.service
          -1174 /usr/libexec/mysqld --basedir=/usr
Mar 23 00:40:55 mahendra systemd[1]: Starting MariaDB 10.3 database server...
Mar 23 00:40:56 mahendra mysql-check-socket[857]: Socket file /var/lib/mysql/mysql.sock exists.
Mar 23 00:40:56 mahendra mysql-check-socket[857]: No process is using /var/lib/mysql/mysql/sock, which means it is a garbage, so it will be removed automatical
Mar 23 00:40:56 mahendra mysql-prepare-db-dir[907]: Database MariaDB is probably initialized in /var/lib/mysql already, nothing is done.
Mar 23 00:40:56 mahendra mysql-prepare-db-dir[9071: If this is not the case, make sure the /var/lib/mysql is empty before running mysql-prepare-db-dir.
Mar 23 00:40:57 mahendra systemd[1]: Started MariaDB 10.3 database server.
[root@mahendra ~]#
```





task-4 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

"/tmp/crontab.GkLmDT" 2L, 27C written crontab: installing new crontab [root@mahendra ~]# crontab -l 0 0 * * * /root/backup.sh [root@mahendra ~]# bash /root/backup.sh root/backup.sh: line 1: unexpected EOF while looking for matching `"' /root/backup.sh: line 10: syntax error: unexpected end of file [root@mahendra ~]# file /root/backup.sh /root/backup.sh: ASCII text [root@mahendra ~]# cat -A /root/backup.sh DATE=\$(date+"xY-xm-xd-xH-xM)\$ tar -cvzf /wordpress/wordpress-backup-\$DATE.tar.gz /var/www/html\$ mysqldump -u root -p'wordpress321#'lampdb > /lampdb/lampdb-\$DATE.sql\$ rm -f /lampdb/lampdb-\$DATE.sql\$ scp /wordpress/*.tar.gz user@VM2:/lampdb\$ scp /lampdb/*.tar.gz user@UMZ:/lampdb\$ find /wordpress -type f -mtime +3 -exec rm {} \;\$ find /lampdb -type f -mtime +3 -exec rm {} \;\$ [root@mahendra ~]#

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task-4 [Running] - Oracle VirtualBox File Machine View Input Devices Help

```
wordpress/wp-settings.php
 wordpress/wp-signup.php
wordpress/wp-trackback.php
wordpress/xmlrpc.php
[root@mahendra html]# mv wordpress /var/www/html
 mv: 'wordpress' and '/var/www/html/wordpress' are the same file
 [root@mahendra html]# cd wordpress
[root@mahendra wordpress]# ls -l wp-config-sample.php
 -rw-r--r--. 1 root root 3336 Oct 15 11:24 wp-config-sample.php
 [root@mahendra wordpress]# cp wp-config-sample.php wp-config.php
[root@mahendra wordpress]# ls -l wp-config.php
 -rw-r--r--. 1 root root 3336 Mar 23 02:37 wp-config.php
[root@mahendra wordpress]# sed -i "s/database_name_here/lampdb/" wp-congig.php
sed: can't read wp-congig.php: No such file or directory
 [root@mahendra wordpress]# sed -i "s/database_name_here/lampdb/" wp-congig.php
sed: can't read wp-congig.php: No such file or directory
[root@mahendra wordpress]# ls -l wp-config.php
 -rw-r--r--. 1 root root 3336 Mar 23 02:37 wp-config.php
 [root@mahendra wordpress]# cp wp-config-sample.php wp-config.php
cp: overwrite 'wp-config.php'? yes
[root@mahendra wordpress]# ls -l wp-config.php
-rw-r--r--. 1 root root 3336 Mar 23 02:40 wp-config.php
[root@mahendra wordpress]# sed -i "s/database_name_here/lampdb/" wp-congig.php
sed: can't read wp-congig.php: No such file or directory
[root@mahendra wordpress]# ls -l wp-config.php
 -rw-r--r--. 1 root root 3336 Mar 23 02:40 wp-config.php
[root@mahendra wordpress]# cp wp-config-sample.php wp-config.php
cp: overwrite 'wp-config.php'? yes
[root@mahendra wordpress]# ls -1 wp-config.php
 -rw-r--r-. 1 root root 3336 Mar 23 02:41 wp-config.php
 [root@mahendra wordpress]# ls
index.php wp-acti∨ate.php
                                           wp-comments-post.php wp-content wp-links-opml.php wp-mail.php
                                                                                                                                          wp-trackback.php
license.txt wp-admin wp-config.php wp-cron.php wp-load.php
readme.html wp-blog-header.php wp-config-sample.php wp-includes wp-login.php
[root@mahendra wordpress]# sed -i "s/database_name_here/lampdb/" wp-config.php
                                                                                                                    wp-settings.php xmlrpc.php
                                                                                                                    wp-signup.php
[root@mahendra wordpress]# sed -i "s/username_here/wordpress/" wp-config.php
 [root@mahendra wordpress]# sed -i "s/password_here/wordpress321#/" wp-config.php
 [root@mahendra wordpress]# pwd
/var/www/html/wordpress
[root@mahendra wordpress]# cat wp-config.php | grep lampdb
define( 'DB_NAME', 'lampdb' );
Iroot@mahendra wordpress!# cat wp-config.php | grep wordpress

* @link https://developer.wordpress.org/advanced-administration/wordpress/wp-config/
define( 'DB_USER', 'wordpress');
define( 'DB_PASSWORD', 'wordpress321#');

* the @link https://api.wordpress.org/secret-key/1.1/salt/ WordPress.org secret-key service}.

* @link https://developer.wordpress.org/advanced-administration/wordpress/wp-config/#table-prefix

* @link https://developer.wordpress.org/advanced-administration/debug/debug-wordpress/

[Pacet@absodys.yordpress]# gystapst]# wordpress/butted
 [root@mahendra wordpress]# systemctl restart httpd
 [root@mahendra wordpress]#
```











```
=>Setup database server
    set password for default "root" : Lamp321#
        database: lampdb
        db user : wordpress
        password: Wordpress321#
        grant full access on lampdb to wordpress
=>test the database access login as wordpress
=>configure phpmyadmin and verify db sever access
=>install wordpress app
```

```
#Backup
        automate => wordpress app backup & database
"lampdb" backup
        - daily backup (12AM)
         - store backup copies on remote server i.e on
VM2
          -> use /wordpress for wordpress app backups
                 > use /lampdb for db backups
        - keep 3 recent backups and delete the backups
older than 3days
              tar
              zip
              include date
              tar -cvzf myapp-backp-on-date +"%Y-%b-
%d-%H-%M".tar.gz /var/www/html
```