

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



Basic

Expert

Search settings



General



System



Display



Storage



Audio



Network



USB



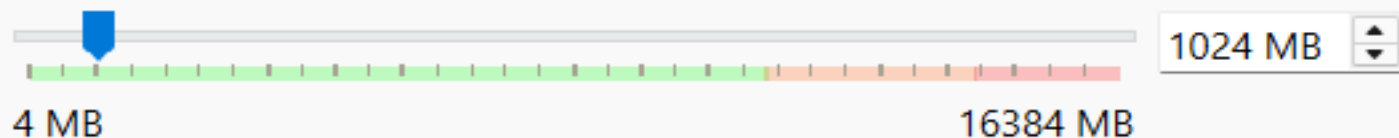
Shared Folders

System

Motherboard

Processor

Base Memory:



Boot Order:

- ☒ Floppy
- ☒ Optical
- ☒ Hard Disk
- ☐ Network

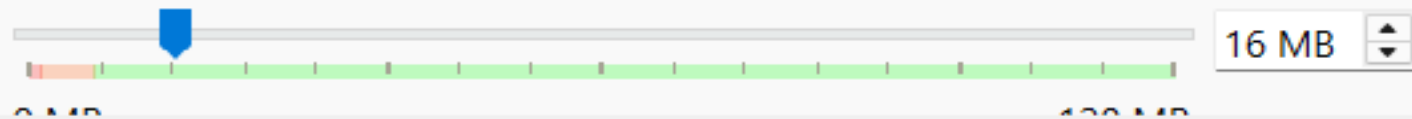
Pointing Device:

PS/2 Mouse

Display

Screen

Video Memory:



OK

Cancel

Help

```
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 ~]# ls
anaconda-ks.cfg
[root@mahendra ~]# lsblk
NAME                                MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda                                  8:0    0   64G  0 disk
├─sda1                              8:1    0    2G  0 part /boot
├─sda2                              8:2    0   37G  0 part
│   └─r1_lampserver-root 253:0    0   15G  0 lvm /
│       └─r1_lampserver-swap 253:1    0    2G  0 lvm [SWAP]
│           └─r1_lampserver-home 253:2    0   20G  0 lvm /home
sdb                                  8:16    0   16G  0 disk
└─mahini-nani 253:3    0    3G  0 lvm
sr0                                  11:0    1 1024M  0 rom
[root@mahendra ~]#
```

```
Rocky Linux 8.10 (Green Obsidian)
Kernel 4.18.0-553.el8_10.x86_64 on an x86_64

Lampserver login: mahendrareddy
Password:
[mahendrareddy@Lampserver ~]$ ls
[mahendrareddy@Lampserver ~]$ hostname -i
fe80::a00:27ff:fecc:58c6%enp0s3 fd00::a00:27ff:fecc:58c6 10.0.2.15
[mahendrareddy@Lampserver ~]$ hostnamectl
  Static hostname: Lampserver
        Icon name: computer-vm
        Chassis: vm
        Machine ID: 03a9d87424cb49408933b34f7598e245
        Boot ID: f3224945cc954eda8fcfb3313d1376e6
        Virtualization: oracle
        Operating System: Rocky Linux 8.10 (Green Obsidian)
        CPE OS Name: cpe:/o:rocky:rocky:8:GA
        Kernel: Linux 4.18.0-553.el8_10.x86_64
        Architecture: x86-64
[mahendrareddy@Lampserver ~]$ ~_
```

```
    inet6 fe80::a00:27ff:fecc:58c6/64
    route6 fe80::/64 metric 1024
    route6 fd00::/64 metric 100
    route6 default via fe80::2 metric 100

lo: unmanaged
    "lo"
    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 enp0s3
Connection 'enp0s3' successfully deactivated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/1)
[root@Lampserver ~]# 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), 00:00:27: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

lo: unmanaged
    "lo"
    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 ~]#
```



Auto capture keyboard ...

Mouse integration ...



```
=====
Package                                Architecture      Version           Repository        Size
=====
Installing:
epel-release                           noarch            8-18.el8           extras             24 k
=====
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 | 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                : 1/1
  Installing               : epel-release-8-18.el8.noarch 1/1
  Running scriptlet: epel-release-8-18.el8.noarch 1/1
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 1/1
Installed:
epel-release-8-18.el8.noarch

Complete!
[root@Lampserver ~]# dnf config-manager --set-enabled powertools
[root@Lampserver ~]# dnf repolist
repo id                                repo name
appstream                              Rocky Linux 8 - AppStream
baseos                                 Rocky Linux 8 - BaseOS
epel                                   Extra Packages for Enterprise Linux 8 - x86_64
extras                                 Rocky Linux 8 - Extras
powertools                             Rocky Linux 8 - 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+el8.10.0+1938+3b7755d4.3.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@Lampserver ~]#
```



Auto capture keyboard ...

Mouse integration ...

```
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 | 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      :                                1/1
  Installing     : epel-release-8-18.el8.noarch  1/1
  Running scriptlet: epel-release-8-18.el8.noarch 1/1
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  1/1

Installed:
  epel-release-8-18.el8.noarch

Complete!
[root@Lampserver ~]# dnf config-manager --set-enabled powertools
[root@Lampserver ~]# dnf repolist
repo id                                repo name
appstream                              Rocky Linux 8 - AppStream
baseos                                 Rocky Linux 8 - BaseOS
epel                                    Extra Packages for Enterprise Linux 8 - x86_64
extras                                 Rocky Linux 8 - Extras
powertools                             Rocky Linux 8 - 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+el8.10.0+1938+3b7755d4.3.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@Lampserver ~]# systemctl enable --now httpd
-bash: systemctl: 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 ~]#
```



Auto capture keyboard ...

Mouse integration ...



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 ~]# 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 ~]# 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 ~]# 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 | 37 kB 00:13

Dependencies resolved.

Package	Architecture	Version	Repository	Size
Installing:				
remi-release	noarch	8.10-2.e18.remi	@commandline	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	:			1/1
Installing	:	remi-release-8.10-2.e18.remi.noarch		1/1
Verifying	:	remi-release-8.10-2.e18.remi.noarch		1/1

Installed:

remi-release-8.10-2.e18.remi.noarch

Complete!

[root@Lampserver ~]# 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 A

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.el8.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-mysqlnd phd-curl
[root@lampserver ~]# yum install -y php-curl 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.el8.remi.x86_64 is already installed.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing:				
php-mysqlnd	x86_64	8.2.28-1.el8.remi	remi-modular	266 k

Transaction Summary

Install 1 Package

Total download size: 266 k

Installed size: 887 k

Downloading Packages:

php-mysqlnd-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	:	1/1
Installing	: php-mysqlnd-8.2.28-1.el8.remi.x86_64	1/1
Running scriptlet:	php-mysqlnd-8.2.28-1.el8.remi.x86_64	1/1
Verifying	: php-mysqlnd-8.2.28-1.el8.remi.x86_64	1/1

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 v4.2.28, Copyright (c) Zend Technologies

with Zend OPcache v8.2.28, Copyright (c), by Zend Technologies

```
[root@lampserver ~]#
```

```

Verifying      : perl-Term-ANSIColor-4.06-396.e18.noarch      41/54
Verifying      : perl-Term-Cap-1.17-395.e18.noarch           42/54
Verifying      : perl-Text-ParseWords-3.30-395.e18.noarch    43/54
Verifying      : perl-Text-Tabs+Wrap-2013.0523-395.e18.noarch 44/54
Verifying      : perl-Time-Local-1:1.280-1.e18.noarch        45/54
Verifying      : perl-Unicode-Normalize-1.25-396.e18.x86_64  46/54
Verifying      : perl-constant-1.33-396.e18.noarch           47/54
Verifying      : perl-interpreter-4:5.26.3-422.e18.x86_64    48/54
Verifying      : perl-libs-4:5.26.3-422.e18.x86_64           49/54
Verifying      : perl-macros-4:5.26.3-422.e18.x86_64         50/54
Verifying      : perl-parent-1:0.237-1.e18.noarch             51/54
Verifying      : perl-podlators-4.11-1.e18.noarch            52/54
Verifying      : perl-threads-1:2.21-2.e18.x86_64            53/54
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-common-3:10.3.39-1.module+e18.8.0+1452+2a7eab68.x86_64
mariadb-connector-c-config-3.1.11-2.e18_3.noarch
mariadb-gssapi-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
perl-DBD-MySQL-4.046-3.module+e18.9.0+1501+450eec3b.x86_64
perl-Data-Dumper-2.167-399.e18.x86_64
perl-Digest-MD5-2.55-396.e18.x86_64
perl-Errno-1.28-422.e18.x86_64
perl-File-Path-2.15-2.e18.noarch
perl-Getopt-Long-1:2.50-4.e18.noarch
perl-IO-1.38-422.e18.x86_64
perl-IO-Socket-SSL-2.066-4.module+e18.9.0+1517+e71a7a62.noarch
perl-Math-BigInt-1:1.9998.11-7.e18.noarch
perl-Mozilla-CA-20160104-7.module+e18.9.0+1521+0101edce.noarch
perl-PathTools-3.74-1.e18.x86_64
perl-Pod-Perldoc-3.28-396.e18.noarch
perl-Pod-Usage-4:1.69-395.e18.noarch
perl-Socket-4:2.027-3.e18.x86_64
perl-Term-ANSIColor-4.06-396.e18.noarch
perl-Text-ParseWords-3.30-395.e18.noarch
perl-Time-Local-1:1.280-1.e18.noarch
perl-Unicode-Normalize-1.25-396.e18.x86_64
perl-interpreter-4:5.26.3-422.e18.x86_64
perl-libs-4:5.26.3-422.e18.x86_64
perl-parent-1:0.237-1.e18.noarch
perl-threads-1:2.21-2.e18.x86_64
mariadb-backup-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-errmsg-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
perl-Carp-1.42-396.e18.noarch
perl-DBI-1.641-4.module+e18.9.0+1495+f278a004.x86_64
perl-Digest-1.17-395.e18.noarch
perl-Encode-4:2.97-3.e18.x86_64
perl-Exporter-5.72-396.e18.noarch
perl-File-Temp-0.238.600-1.e18.noarch
perl-HTTP-Tiny-0.074-3.e18.noarch
perl-IO-Socket-IP-0.39-5.e18.noarch
perl-MIME-Base64-3.15-396.e18.x86_64
perl-Math-Complex-1.59-422.e18.noarch
perl-Net-SSLeay-1.88-2.module+e18.9.0+1517+e71a7a62.x86_64
perl-Pod-Escapes-1:1.07-395.e18.noarch
perl-Pod-Simple-1:3.35-395.e18.noarch
perl-Scalar-List-Utils-3:1.49-2.e18.x86_64
perl-Storable-1:3.11-3.e18.x86_64
perl-Term-Cap-1.17-395.e18.noarch
perl-Text-Tabs+Wrap-2013.0523-395.e18.noarch
perl-URI-1.73-3.e18.noarch
perl-constant-1.33-396.e18.noarch
perl-libnet-3.11-3.e18.noarch
perl-macros-4:5.26.3-422.e18.x86_64
perl-podlators-4.11-1.e18.noarch
perl-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.el8_10.x86_64 on an x86_64

Lampserver login: root
Password:
Last login: Sun Mar 16 06:07:02 on tty1
[root@Lampserver ~]# 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!
[root@Lampserver ~]# systemctl enable --now mariadb
[root@Lampserver ~]#
```

```
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
           └─1137 /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.
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 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
├─sda1                               8:1      0    2G  0 part /boot
├─sda2                               8:2      0   37G  0 part
│   ├─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
sdb                                  8:16     0   16G  0 disk
sr0                                  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 "mah" successfully created
[root@Lampserver ~]# pvs
  PV          VG          Fmt Attr PSize  PFree
  /dev/sda2   rl_lampserver  lvm2 a--   36.99g    0
  /dev/sdb    mahi           lvm2 a--   <16.00g <16.00g
[root@Lampserver ~]# lvs
  LV          VG          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 ~]# vgs
  VG          #PV #LV #SN Attr   USize  VFree
  mahi         1   0   0 wz--n- <16.00g <16.00g
  rl_lampserver 1   3   0 wz--n-  36.99g    0
[root@Lampserver ~]# ~
```



```
Password:
Last login: Tue Mar 18 02:23:57 on tty1
[root@Lampserver ~]# lvs
  LV   VG      Attr       LSize   Pool Origin Data%  Meta%   Move Log Cpy%Sync Convert
  nani mahi   -wi-a----- 3.00g
  home rl_lampserver -wi-ao---- 19.99g
  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
  LV   VG      Attr       LSize   Pool Origin Data%  Meta%   Move Log Cpy%Sync Convert
  nani mahi   -wi-a----- 3.00g
  home rl_lampserver -wi-ao---- 19.99g
  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
=                               reflink=1   bigtime=0 inobtcount=0
data      =                       bsize=4096  blocks=786432, imaxpct=25
=                               sunit=0      swidth=0 blks
naming    =version 2           bsize=4096  ascii-ci=0, ftype=1
log       =internal log      bsize=4096  blocks=2560, version=2
=                               sectsz=512   sunit=0 blks, lazy-count=1
realtime  =none              extsz=4096  blocks=0, rtextents=0
[root@Lampserver ~]# mkdir /lv11
[root@Lampserver ~]# mount + /dev/mahi/nani /lv11
mount: bad usage
Try 'mount --help' for more information.
[root@Lampserver ~]# mount /dev/mahi/nani /lv11
[root@Lampserver ~]# cd /lv11
[root@Lampserver /lv11]# ls
[root@Lampserver /lv11]# umount /dev/mahi/nani /lv11
-bash: umount: command not found
[root@Lampserver /lv11]# umount /lv11
-bash: umount: command not found
[root@Lampserver /lv11]# umount /lv11
umount: /lv11: target is busy.
[root@Lampserver /lv11]# umount /lv11
umount: /lv11: target is busy.
[root@Lampserver /lv11]# cd ..
[root@Lampserver ~]# umount /lv11
[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!

Normally, root should only be allowed to connect from 'localhost'. This
ensures that someone cannot guess 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...
... Success!



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:
```

Auto capture keyboard ...  Mouse integration ...  

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 \g.

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 '\h' for help. Type '\c' 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      | host      |
+-----+-----+
| wordpress | %         |
| root      | 127.0.0.1 |
| root      | ::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)

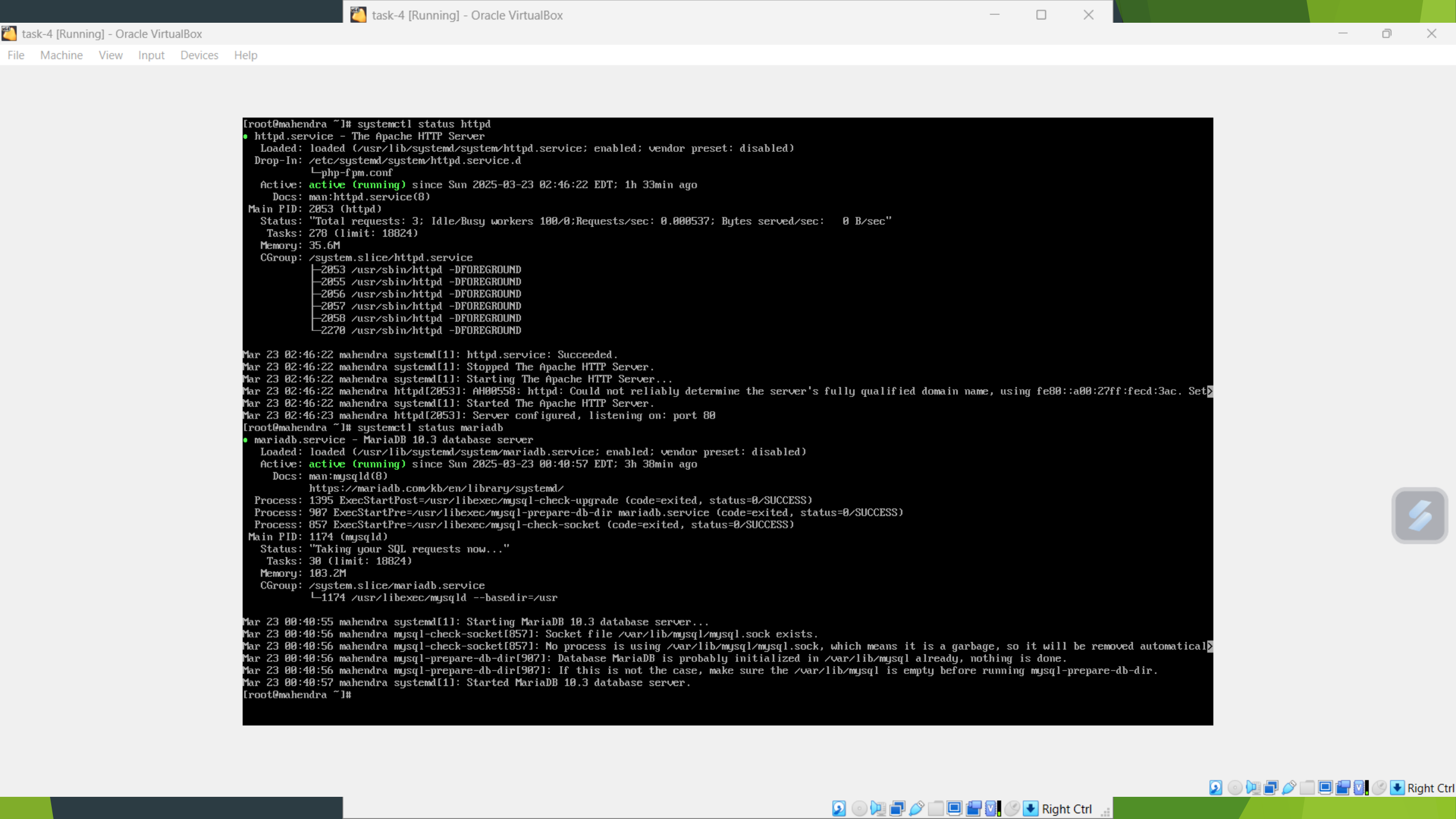
MariaDB [(none)]> SHOW DATABASES;

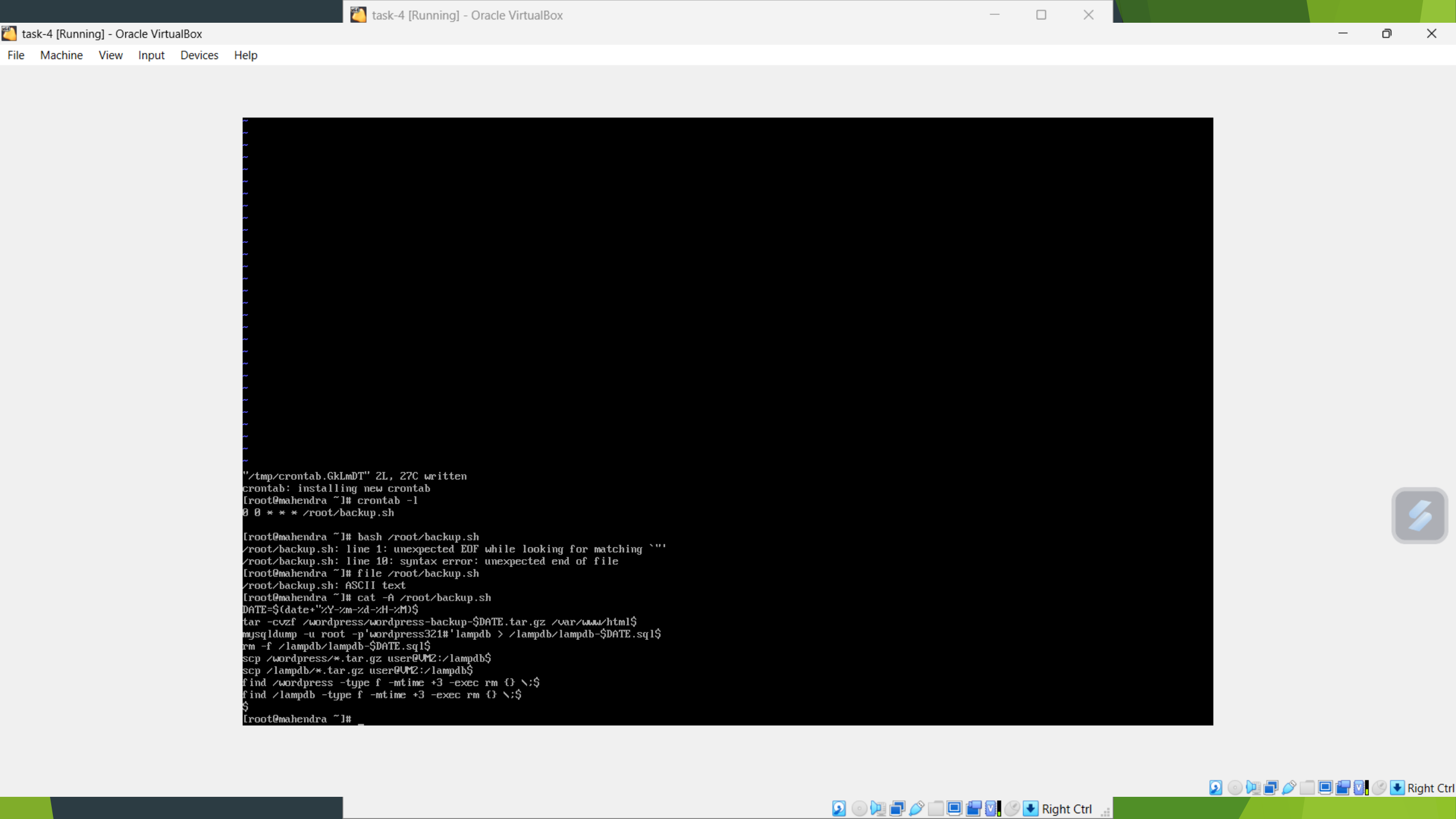
```
+-----+
| Database      |
+-----+
| information_schema |
| lampdb        |
| mysql         |
| performance_schema |
+-----+
```

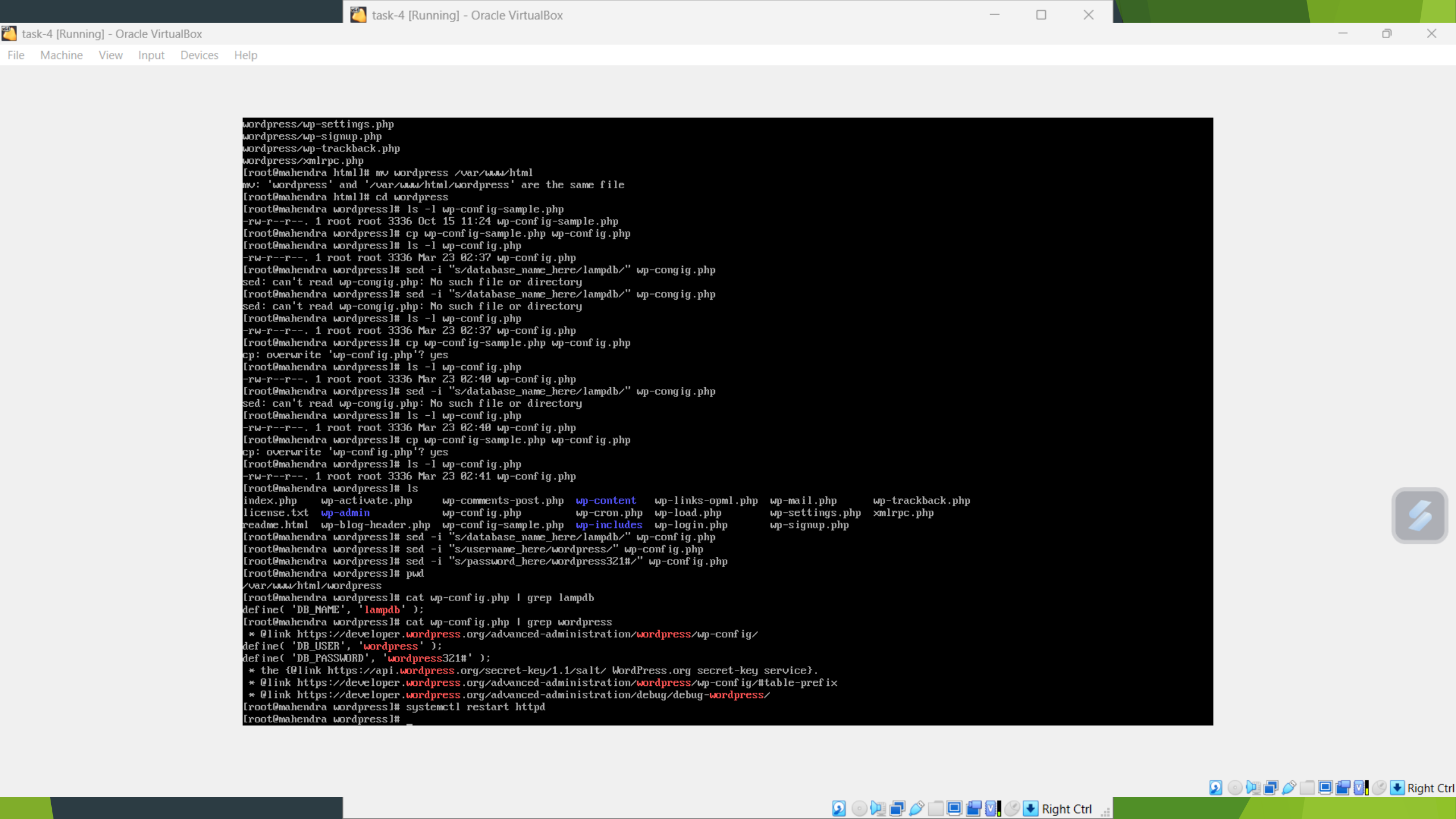
4 rows in set (0.003 sec)

```
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
Enter password:
ERROR 1045 (28000): Access denied for user 'wordpress'@'localhost' (using password: YES)
[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'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 ~]#
```













=>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