Practice Questions- 1

➢ How to check the installed software on RedHat Linux?
  rpm -q package_name

```
[root@localhost ~]# rpm -q firefox
package firefox is not installed
[root@localhost ~]#
```

➢ How to install specific software package using rpm command on RedHat Linux?
  rpm –i package_name

```
[root@localhost Packages]# rpm -i firefox-91.8.0-1.el9_0.x86_64.rpm
warning: firefox-91.8.0-1.el9_0.x86_64.rpm: Header V3 RSA/SHA256 Signature, key
ID fd431d51: NOKEY
[root@localhost Packages]#
```

➢ How to display the list of installed software package's files?
  rpm -ql package_name

```
[root@localhost Packages]# rpm -ql firefox
```

```
/usr/lib64/firefox/libmozavutil.so
/usr/lib64/firefox/libmozgtk.so
/usr/lib64/firefox/libmozsandbox.so
/usr/lib64/firefox/libmozsqlite3.so
/usr/lib64/firefox/libmozwayland.so
/usr/lib64/firefox/libxul.so
/usr/lib64/firefox/omni.ja
/usr/lib64/firefox/pingsender
/usr/lib64/firefox/platform.ini
/usr/lib64/firefox/plugin-container
/usr/lib64/firefox/run-mozilla.sh
/usr/lib64/mozilla/extensions/{ec8030f7-c20a-464f-9b0e-13a3a9e97384}
/usr/share/appdata/firefox.appdata.xml
/usr/share/applications/firefox.desktop
/usr/share/icons/hicolor/16x16/apps/firefox.png
/usr/share/icons/hicolor/22x22/apps/firefox.png
/usr/share/icons/hicolor/24x24/apps/firefox.png
/usr/share/icons/hicolor/256x256/apps/firefox.png
/usr/share/icons/hicolor/32x32/apps/firefox.png
/usr/share/icons/hicolor/48x48/apps/firefox.png
/usr/share/icons/hicolor/symbolic/apps/firefox-symbolic.svg
/usr/share/man/man1/firefox.1.gz
/usr/share/mozilla/extensions/{ec8030f7-c20a-464f-9b0e-13a3a9e97384}
```

➢ How to get the installed software information like package version and short description of package?

     rpm -qi package_name

```
[root@localhost Packages]# rpm -qi firefox
Name        : firefox
Version     : 91.8.0
Release     : 1.el9_0
Architecture: x86_64
Install Date: Sun 23 Oct 2022 09:02:05 AM IST
Group       : Unspecified
Size        : 277491573
License     : MPLv1.1 or GPLv2+ or LGPLv2+
Signature   : RSA/SHA256, Wed 06 Apr 2022 11:40:08 AM IST, Key ID 199e2f91fd431d
51
Source RPM  : firefox-91.8.0-1.el9_0.src.rpm
Build Date  : Tue 05 Apr 2022 05:43:45 PM IST
Build Host  : x86-vm-56.build.eng.bos.redhat.com
Packager    : Red Hat, Inc. <http://bugzilla.redhat.com/bugzilla>
Vendor      : Red Hat, Inc.
URL         : https://www.mozilla.org/firefox/
Summary     : Mozilla Firefox Web browser
Description :
Mozilla Firefox is an open-source web browser, designed for standards
compliance, performance and portability.
[root@localhost Packages]#
```

➢ How to remove the software package from on RedHat Linux?

     rpm -e package_name

```
[root@localhost Packages]# rpm -e firefox
[root@localhost Packages]# rpm -q firefox
package firefox is not installed
[root@localhost Packages]#
```

➢ How to install packages using yum?

     yum install package_name

```
[root@localhost ~]# yum install httpd
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti
on-manager to register.

Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Repository 'AppStream' is missing name in configuration, using id.
Repository 'BaseOS' is missing name in configuration, using id.
Repository 'AppStream1' is missing name in configuration, using id.
Repository 'BaseOS1' is missing name in configuration, using id.
Last metadata expiration check: 1:11:13 ago on Sun 23 Oct 2022 08:56:10 AM IST.
Dependencies resolved.
================================================================================
 Package             Architecture Version                Repository  Size
================================================================================
Installing:
 httpd               x86_64       2.4.51-7.el9_0         dvd1        1.5 M
Installing dependencies:
```

➢ How to check the Apache version?

httpd –v

```
[root@localhost ~]# httpd -v
Server version: Apache/2.4.51 (Red Hat Enterprise Linux)
Server built:   Mar 21 2022 00:00:00
```

➢ How to list dependencies of a package?
yum deplist package_name

```
[root@localhost ~]# yum deplist httpd
```

```
   provider: systemd-libs-250-6.el9_0.x86_64
  dependency: libz.so.1()(64bit)
   provider: zlib-1.2.11-31.el9.x86_64
   provider: zlib-1.2.11-31.el9.x86_64
   provider: zlib-1.2.11-31.el9.x86_64
  dependency: rtld(GNU_HASH)
   provider: glibc-2.34-28.el9_0.i686
   provider: glibc-2.34-28.el9_0.x86_64
   provider: glibc-2.34-28.el9_0.i686
   provider: glibc-2.34-28.el9_0.x86_64
   provider: glibc-2.34-28.el9_0.i686
   provider: glibc-2.34-28.el9_0.x86_64
  dependency: system-logos-httpd
   provider: redhat-logos-httpd-90.4-1.el9.noarch
   provider: redhat-logos-httpd-90.4-1.el9.noarch
   provider: redhat-logos-httpd-90.4-1.el9.noarch
  dependency: systemd-units
   provider: systemd-250-6.el9_0.i686
   provider: systemd-250-6.el9_0.x86_64
   provider: systemd-250-6.el9_0.i686
   provider: systemd-250-6.el9_0.x86_64
   provider: systemd-250-6.el9_0.i686
   provider: systemd-250-6.el9_0.x86_64
[root@localhost ~]#
```

➢ How to list all available or enabled repositories?
yum repolist all

```
[root@localhost ~]# yum repolist all
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti
on-manager to register.

Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Repository 'AppStream' is missing name in configuration, using id.
Repository 'BaseOS' is missing name in configuration, using id.
Repository 'AppStream1' is missing name in configuration, using id.
Repository 'BaseOS1' is missing name in configuration, using id.
repo id                          repo name                      status
AppStream                        AppStream                      enabled
AppStream1                       AppStream1                     enabled
BaseOS                           BaseOS                         enabled
BaseOS1                          BaseOS1                        enabled
dvd1                             dvd1                           enabled
dvd2                             dvd2                           enabled
[root@localhost ~]#
```

➤ How to view history of installation/removal of packages?
>   yum history

```
[root@localhost ~]# yum history
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti
on-manager to register.

Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Repository 'AppStream' is missing name in configuration, using id.
Repository 'BaseOS' is missing name in configuration, using id.
Repository 'AppStream1' is missing name in configuration, using id.
Repository 'BaseOS1' is missing name in configuration, using id.
ID     | Command line             | Date and time    | Action(s)   | Altered
-------------------------------------------------------------------------------
    16 | install httpd            | 2022-10-23 10:10 | Install     |   10
    15 | remove httpd             | 2022-10-23 10:06 | Removed     |   10
    14 | install httpd            | 2022-10-23 10:00 | Install     |   10
    13 | remove httpd             | 2022-10-23 09:59 | Removed     |   10
    12 | install httpd            | 2022-10-16 12:13 | Install     |   10
    11 | remove httpd             | 2022-10-16 12:12 | Removed     |   10  <
    10 | install httpd            | 2022-10-13 20:27 | Install     |   10 >
     9 | remove httpd             | 2022-10-13 20:26 | Removed     |   10  <
     8 | install firefox          | 2022-10-02 18:07 | Install     |    1 ><
```

➤ How to remove all unneeded packages that were originally installed as dependencies
>   yum autoremove

```
This system is not registered with an entitlement server. You can use subscripti
on-manager to register.

Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Repository 'AppStream' is missing name in configuration, using id.
Repository 'BaseOS' is missing name in configuration, using id.
Repository 'AppStream1' is missing name in configuration, using id.
Repository 'BaseOS1' is missing name in configuration, using id.
Last metadata expiration check: 3:38:55 ago on Sun 23 Oct 2022 08:56:10 AM IST.
Dependencies resolved.
=================================================================================
 Package              Architecture   Version        Repository        Size
=================================================================================
Removing:
 redhat-indexhtml     noarch         9-2.el9        @AppStream        539 k

Transaction Summary
=================================================================================
Remove  1 Package

Freed space: 539 k
Is this ok [y/N]:
```

➢ How to know the name of the package or file name of a particular command?

        yum whatprovides command_name