Package Management

RPM:

```
[root@vbox ~]# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=255 time=69.5 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=255 time=67.1 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=255 time=59.9 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=255 time=71.1 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=255 time=72.8 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=255 time=75.5 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=255 time=73.0 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=255 time=66.4 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=255 time=64.0 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=255 time=73.6 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=255 time=62.7 ms
64 bytes from 8.8.8.8: icmp_seq=12 ttl=255 time=63.1 ms
--- 8.8.8.8 ping statistics ---
12 packets transmitted, 12 received, 0% packet loss, time 11042ms
rtt min/avg/max/mdev = 59.898/68.216/75.537/4.864 ms
[root@vbox ~]# nmtui
[root@vbox ~]# ping 8.8.8.8
ping: connect: Network is unreachable
[root@vbox ~]# nmtui
```

```
[root@vbox ~]# rpm -ivh tree-1.8.0-10.el9.x86_64.rpm
                                      ############################# [100%]
Verifying...
                                      ############################## [100%]
Preparing...
        package tree-1.8.0-10.el9.x86_64 is already installed
[root@vbox ~]# rpm -q tree
tree-1.8.0-10.el9.x86_64
[root@vbox ~]# rpm -qa
libgcc-11.5.0-7.el9.x86_64
fonts-filesystem-2.0.5-7.el9.1.noarch
linux-firmware-whence-20250604-153.el9.noarch
hwdata-0.348-9.18.el9.noarch
xkeyboard-config-2.33-2.el9.noarch
tzdata-2025b-1.el9.noarch
liberation-fonts-common-2.1.3-5.el9.noarch
mesa-filesystem-24.2.8-2.el9.x86_64
hyperv-daemons-license-0-0.43.20190303git.el9.noarch
gnome-control-center-filesystem-40.0-41.el9.noarch
abattis-cantarell-fonts-0.301-4.el9.noarch
yelp-xsl-40.2-1.el9.noarch
mozilla-filesystem-1.9-30.el9.x86_64
google-noto-fonts-common-20201206-5.el9.noarch
google-noto-cjk-fonts-common-20230817-2.el9.noarch
foomatic-db-filesystem-4.0-72.20210209.el9.noarch
cups-filesystem-2.3.3op2-33.el9.noarch
```

```
[root@vbox ~]# rpm -qi tree
Name
           : tree
Version
          : 1.8.0
         : 10.el9
Release
Architecture: x86_64
Install Date: Saturday 14 June 2025 11:08:36 PM
Group
        : Unspecified
          : 115900
Size
License
          : GPLv2+ and LGPLv2+
Signature : RSA/SHA256, Monday 01 November 2021 08:14:20 PM, Key ID 05b555b38483c65d
Source RPM : tree-pkg-1.8.0-10.el9.src.rpm
Build Date : Monday 01 November 2021 07:16:53 PM
Build Host : x86-02.stream.rdu2.redhat.com
Packager : builder@centos.org
Vendor
          : CentOS
URL
          : http://mama.indstate.edu/users/ice/tree/
Summary
          : File system tree viewer
Description :
The tree utility recursively displays the contents of directories in a
tree-like format. Tree is basically a UNIX port of the DOS tree
utility.
[root@vbox ~]#
```

```
: tree
        : 1.8.0
Version
          : 10.el9
Release
Architecture: x86_64
Install Date: (not installed)
Group : Unspecified
         : 115900
Size
License
         : GPLv2+ and LGPLv2+
Signature : RSA/SHA256, Monday 01 November 2021 08:14:20 PM, Key ID 05b555b38483c65d
Source RPM : tree-pkg-1.8.0-10.el9.src.rpm
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          : http://mama.indstate.edu/users/ice/tree/
        : File system tree viewer
Summary
Description :
The tree utility recursively displays the contents of directories in a
tree-like format. Tree is basically a UNIX port of the DOS tree
utility.
[root@vbox ~]#
```

```
[root@vbox ~]# rpm -ql tree
/usr/bin/tree
/usr/lib/.build-id
/usr/lib/.build-id/41
/usr/lib/.build-id/41/df41140e769031eb10c587b6162475d2d981e8
/usr/share/doc/tree
/usr/share/doc/tree/README
/usr/share/licenses/tree
/usr/share/licenses/tree
/usr/share/licenses/tree/LICENSE
/usr/share/man/man1/tree.1.gz
[root@vbox ~]#
```

```
[root@vbox ~]# rpm -qd tree
/usr/share/doc/tree/README
/usr/share/man/manl/tree.1.gz
[root@vbox ~]# rpm -qc tree
[root@vbox ~]# rpm -evh tree
Preparing... ######################## [100%]
Cleaning up / removing...
1:tree-1.8.0-10.el9 ######################## [100%]
[root@vbox ~]#
```

YUM:

[root@vbox w]#	+all b++	and .				
[root@vbox ~]# yum ins		•	Sunday 13 July 2025 07:	25.21 DM		
Dependencies resolved.	on check	(; 1:16:44 ago on :	Sunday 13 July 2025 07:	33:21 PM.		
Package		Architecture	Version	Repository		
<pre>Installing:</pre>	======	:=========	=======================================	:======================================		
httpd		x86_64	2.4.62-4.el9	appstream		
Installing dependencie	s:					
apr		x86_64	1.7.0-12.el9	appstream		
apr-util		x86_64	1.6.1-23.el9	appstream		
apr-util-bdb		x86_64	1.6.1-23.el9	appstream		
centos-logos-httpd		noarch	90.8-3.el9	appstream		
httpd-core	I	x86_64	2.4.62-4.el9	appstream		
httpd-filesystem		noarch	2.4.62-4.el9	appstream		
httpd-tools		x86_64	2.4.62-4.el9	appstream		
Installing weak dependencies:						
apr-util-openssl		x86_64	1.6.1-23.el9	appstream		
mod_http2		x86_64	2.0.26-4.el9	appstream		
mod_lua		x86_64	2.4.62-4.el9	appstream		
Transaction Summary						
Install 11 Packages	======	:=========				
Total download size: 3 Installed size: 8.6 M	.6 M					

```
[root@vbox ~]# yumdownloader tree
bash: yumdownloader: command not found...
Install package 'yum-utils' to provide command 'yumdownloader'? [N/y] ^C
[root@vbox ~]# yumdownloader tree -y
bash: yumdownloader: command not found...
Install package 'yum-utils' to provide command 'yumdownloader'? [N/y] y
 * Waiting in queue...
The following packages have to be installed:
yum-utils-4.3.0-21.el9.noarch Yum-utils CLI compatibility layer
Proceed with changes? [N/y] y
 * Waiting in queue...
 * Waiting for authentication...
 * Waiting in queue...
* Downloading packages...
 * Requesting data...
 * Testing changes...
 * Installing packages...
Last metadata expiration check: 1:18:26 ago on Sunday 1 July 2025 07:35:21 PM.
```

```
[root@vbox ~ ] # yum provides httpd
Last metadata expiration check: 1:19:27 ago on Sunday 13 July 2025 07:35:21 PM.
httpd-2.4.57-5.el9.x86_64 : Apache HTTP Server
Repo
           : appstream
Matched from:
Provide
          : httpd = 2.4.57-5.el9
httpd-2.4.57-6.el9.x86_64 : Apache HTTP Server
          : appstream
Matched from:
          : httpd = 2.4.57-6.el9
Provide
httpd-2.4.57-8.el9.x86_64 : Apache HTTP Server
Repo
           : appstream
Matched from:
Provide
          : httpd = 2.4.57-8.el9
httpd-2.4.62-1.el9.x86_64 : Apache HTTP Server
Repo
           : appstream
Matched from:
Provide
          : httpd = 2.4.62-1.el9
httpd-2.4.62-4.el9.x86_64 : Apache HTTP Server
Repo
           : @System
Matched from:
```

[root@vbox ~]# yum list installed | grep httpd

centos-logos- <mark>httpd.</mark> noarch	90.8-3.el9	@appstream
httpd.x86_64	2.4.62-4.el9	@appstream
httpd-core.x86_64	2.4.62-4.el9	@appstream
httpd-filesystem.noarch	2.4.62-4.el9	@appstream
httpd-tools.x86_64	2.4.62-4.el9	@appstream
[reatOubox w]#		

[root@vbox ~]# yum remove tree No match for argument: **tree** No packages marked for removal. Dependencies resolved. Nothing to do. Complete! [root@vbox ~]# yum autoremove tree No match for argument: tree No packages marked for removal. Mependencies resolved. Nothing to do. Complete! [root@vbox ~]# yum autoremove httpd Dependencies resolved. Architecture Version Repository Package Removing: x86_64 2.4.62-4.el9 @appstream Removing unused dependencies: x86_64 @appstream 288 k x86_64 1.6.1-23.el9 @appstream 211 k x86_64 1.6.1-23.el9 @appstream 15 k x86_64 23 k 1.6.1-23.el9 @appstream noarch 90.8-3.el9 @appstream 2.6 M 2.4.62-4.el9 x86_64 @appstream 4.7 M noarch 2.4.62-4.el9 @appstream 464 x86_64 x86_64 2.4.62-4.el9 @appstream 199 k 2.0.26-4.el9 @appstream 442 k