

yum: List and Install Software Groups



```
$ yum group list
```

[yum package manager](#), and **dnf package manager** in later Red Hat Linux versions, is quite a capable tool. In addition to expertly resolving dependencies when installing and removing individual software packages (RPMs), **yum** can also be used to manage whole package groups.

List software groups with yum

Here's how to get a list of available software groups and also get an indication of which groups you already have installed in your RHEL:

```
[root@rhel8 ~]# yum group list
Updating Subscription Management repositories.
Updating Subscription Management repositories.
Last metadata expiration check: 0:02:40 ago on Tue 29 Jan 2019
18:38:39 EST.
Available Environment Groups:
```

Custom Operating System
Server

Installed Environment Groups:

Minimal Install

Workstation

Available Groups:

.NET Core Development

RPM Development Tools

Container Management

Smart Card Support

Scientific Support

Security Tools

Development Tools

System Tools

Headless Management

Network Servers

Legacy UNIX Compatibility

Graphical Administration Tools

Install a software group with yum

Simply using the entries from the list in previous section, you can install software groups like shown below.

IMPORTANT: because these are descriptive names and they have multiple words in mostt group's names, you must use quotes:

```
[root@rhel8 ~]# yum group install "Development Tools"
Updating Subscription Management repositories.
Updating Subscription Management repositories.
Last metadata expiration check: 0:02:59 ago on Tue 29 Jan 2019
18:38:39 EST.
Dependencies resolved
=====
Package Arch Version Repository Size
=====
Installing group/module packages:
source-highlight x86_64 3.1.8-16.el8 rhel-8-for-x86_64-
appstream-beta-rpms 657 k
autoconf noarch 2.69-27.el8 rhel-8-for-x86_64-appstream-beta-
rpms 710 k
```

perl-Fedora-VSP noarch 0.001-9.el8 rhel-8-for-x86_64-appstream-beta-rpms 25 k
patchutils x86_64 0.3.4-10.el8 rhel-8-for-x86_64-appstream-beta-rpms 115 k
libtool x86_64 2.4.6-25.el8 rhel-8-for-x86_64-appstream-beta-rpms 709 k
bison x86_64 3.0.4-10.el8 rhel-8-for-x86_64-appstream-beta-rpms 688 k
flex x86_64 2.6.1-9.el8 rhel-8-for-x86_64-appstream-beta-rpms 320 k
valgrind x86_64 1:3.14.0-1.el8 rhel-8-for-x86_64-appstream-beta-rpms 11 M
pesign x86_64 0.112-25.el8 rhel-8-for-x86_64-appstream-beta-rpms 181 k
gdb x86_64 8.2-3.el8 rhel-8-for-x86_64-appstream-beta-rpms 296 k
ctags x86_64 5.8-22.el8 rhel-8-for-x86_64-appstream-beta-rpms 170 k
ltrace x86_64 0.7.91-27.el8 rhel-8-for-x86_64-appstream-beta-rpms 160 k
systemtap x86_64 4.0-0.20180830git.el8 rhel-8-for-x86_64-appstream-beta-rpms 17 k
perl-generators noarch 1.10-7.el8 rhel-8-for-x86_64-appstream-beta-rpms 18 k
byacc x86_64 1.9.20170709-4.el8 rhel-8-for-x86_64-appstream-beta-rpms 91 k
rpm-build x86_64 4.14.2-4.el8 rhel-8-for-x86_64-appstream-beta-rpms 166 k
asciidoc noarch 8.6.10-0.5.20180627gitf7c2274.el8 rhel-8-for-x86_64-appstream-beta-rpms 216 k
automake noarch 1.16.1-6.el8 rhel-8-for-x86_64-appstream-beta-rpms 713 k
intltool noarch 0.51.0-11.el8 rhel-8-for-x86_64-appstream-beta-rpms 66 k
diffstat x86_64 1.61-7.el8 rhel-8-for-x86_64-appstream-beta-rpms 44 k
make x86_64 1:4.2.1-9.el8 rhel-8-for-x86_64-baseos-beta-rpms 498 k
rpm-sign x86_64 4.14.2-4.el8 rhel-8-for-x86_64-baseos-beta-rpms 74 k
Installing dependencies:

perl-Thread-Queue noarch 3.13-1.el8 rhel-8-for-x86_64-
appstream-beta-rpms 24 k
docbook-style-xsl noarch 1.79.2-7.el8 rhel-8-for-x86_64-
appstream-beta-rpms 1.6 M
libXaw x86_64 1.0.13-10.el8 rhel-8-for-x86_64-appstream-beta-
rpms 194 k
dyninst x86_64 9.3.2-12.el8 rhel-8-for-x86_64-appstream-beta-
rpms 3.7 M
gdb-headless x86_64 8.2-3.el8 rhel-8-for-x86_64-appstream-
beta-rpms 3.7 M
guile x86_64 5:2.0.14-7.el8 rhel-8-for-x86_64-appstream-beta-
rpms 3.5 M
graphviz x86_64 2.40.1-37.el8 rhel-8-for-x86_64-appstream-
beta-rpms 1.7 M
systemtap-runtime x86_64 4.0-0.20180830git.el8 rhel-8-for-
x86_64-appstream-beta-rpms 461 k
libipt x86_64 1.6.1-8.el8 rhel-8-for-x86_64-appstream-beta-
rpms 50 k
perl-XML-Parser x86_64 2.44-10.el8 rhel-8-for-x86_64-
appstream-beta-rpms 226 k
libdwarf x86_64 20180129-4.el8 rhel-8-for-x86_64-appstream-
beta-rpms 172 k
systemtap-devel x86_64 4.0-0.20180830git.el8 rhel-8-for-
x86_64-appstream-beta-rpms 2.1 M
systemtap-client x86_64 4.0-0.20180830git.el8 rhel-8-for-
x86_64-appstream-beta-rpms 3.5 M
libatomic_ops x86_64 7.6.2-3.el8 rhel-8-for-x86_64-appstream-
beta-rpms 38 k
docbook-dtds noarch 1.0-69.el8 rhel-8-for-x86_64-appstream-
beta-rpms 377 k
nss-tools x86_64 3.39.0-1.0.el8 rhel-8-for-x86_64-appstream-
beta-rpms 558 k
libbabeltrace x86_64 1.5.4-2.el8 rhel-8-for-x86_64-appstream-
beta-rpms 201 k
gc x86_64 7.6.4-3.el8 rhel-8-for-x86_64-appstream-beta-rpms
109 k
xorg-x11-fonts-IS08859-1-100dpi noarch 7.5-19.el8 rhel-8-for-
x86_64-appstream-beta-rpms 1.1 M
elfutils x86_64 0.174-1.el8 rhel-8-for-x86_64-baseos-beta-rpms
340 k
patch x86_64 2.7.6-7.el8 rhel-8-for-x86_64-baseos-beta-rpms

```
138 k
m4 x86_64 1.4.18-7.el8 rhel-8-for-x86_64-baseos-beta-rpms 223
k
sgml-common noarch 0.6.3-50.el8 rhel-8-for-x86_64-baseos-beta-
rpms 62 k
kernel-debug-devel x86_64 4.18.0-32.el8 rhel-8-for-x86_64-
baseos-beta-rpms 12 M
gettext-devel x86_64 0.19.8.1-14.el8 rhel-8-for-x86_64-baseos-
beta-rpms 331 k
gettext-common-devel noarch 0.19.8.1-14.el8 rhel-8-for-x86_64-
baseos-beta-rpms 419 k
mokutil x86_64 1:0.3.0-9.el8 rhel-8-for-x86_64-baseos-beta-
rpms 44 k
Installing weak dependencies:
gcc-gdb-plugin x86_64 8.2.1-3.3.el8 rhel-8-for-x86_64-
appstream-beta-rpms 115 k
```

Transaction Summary

```
=====
Install 50 Packages
```

```
Total download size: 53 M
Installed size: 193 M
Is this ok [y/N]:
```

That's it for today! Will show you a few more really cool tricks with yum some other time.

See Also

- Red Hat Linux
- [List Red Hat subscriptions](#)
- [How To: fix corrupted yum database](#)
- [How To: use yum behind proxy](#)