

Лабораторная работа №4

Презентация

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Информация

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Элементы презентации

Целью данной работы является получение навыков работы с репозиториями и менеджерами пакетов.

Выполнение лабораторной работы

Списки репозиториев

Выведите на экран список репозиториев: - `dnf repolist` Выведите на экран список пакетов, в названии или описании которых есть слово `user`: - `dnf search`

```
[root@ermimash yum.repos.d]# dnf repolist
repo id                                repo name
appstream                              Rocky Linux 9 - AppStream
baseos                                 Rocky Linux 9 - BaseOS
extras                                 Rocky Linux 9 - Extras

[root@ermimash yum.repos.d]# dnf search user
Last metadata expiration check: 7 days, 19:57:26 ago on Sat 20 Sep 2025 12:59:29 AM MSK.
===== Name & Summary Matched: user =====
gnome-user-docs.noarch : GNOME User Documentation
libuser.x86_64 : A user and group account administration library
libuser.i686 : A user and group account administration library
perl-User-pwent.noarch : By-name interface to Perl built-in user name resolver
samba-usershares.x86_64 : Provides support for non-root user shares
usermode.x86_64 : Tools for certain user account management tasks
anaconda-user-help.noarch : Content of the Anaconda built-in help system
gnome-shell-extension-user-theme.noarch : Support for custom themes in GNOME Shell
xdg-user-dirs-gtk.x86_64 : Gnome integration of special directories
===== Summary Matched: user =====
NetworkManager.x86_64 : Network connection manager and user applications
BackpackKit-command-not-found.x86_64 : Ask the user to install command line programs automatically
```

user

Установка и удаление nmap

Установите nmap, предварительно изучив информацию по имеющимся пакетам: - `dnf install nmap` - `dnf install nmap*` Удаление: - `dnf remove nmap` - `dnf`

```
Installing:
nmap                x86_64                3:7.92-3.el9                appstream                5.4 M

Transaction Summary
=====
Install 1 Package

Total download size: 5.4 M
Installed size: 24 M
Is this ok [y/N]: y
Downloading Packages:
nmap-7.92-3.el9.x86_64.rpm                13 MB/s | 5.4 MB    00:00
-----
Total                8.0 MB/s | 5.4 MB    00:00
Rocky Linux 9 - AppStream                1.7 MB/s | 1.7 kB    00:00
Importing GPG key 0x350D275D:
  UserId       : "Rocky Enterprise Software Foundation - Release key 2022 <releng@rockylinux.org>"
  Fingerprint: 21CB 256A E16F C54C 6E65 2949 702D 426D 350D 275D
  From        : /etc/pki/rpm-gpg/RPM-GPG-KEY-Rocky-9
Is this ok [y/N]: y
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Installing     : nmap-3:7.92-3.el9.x86_64        1/1
  Running scriptlet: nmap-3:7.92-3.el9.x86_64        1/1
  Verifying      : nmap-3:7.92-3.el9.x86_64        1/1

Installed:
  nmap-3:7.92-3.el9.x86_64

Complete!
[root@erminash yum.repos.d]# dnf install nmap+
Last metadata expiration check: 0:00:26 ago on Sat 27 Sep 2025 08:59:23 PM MSK.
Package nmap-3:7.92-3.el9.x86_64 is already installed.
```


Установка и удаление группы пакетов RPM Development Tools

Установка: - dnf groups info "RPM Development Tools" - dnf groupinstall "RPM Development Tools" Удаление: - dnf groupremove "RPM Development Tools"

```
[root@ermimash yum.repos.d]# dnf groups info "RPM Development Tools"
Last metadata expiration check: 0:02:42 ago on Sat 27 Sep 2025 08:59:23 PM MSK.
Group: RPM Development Tools
Description: Tools used for building RPMs, such as rpmbuild.
Mandatory Packages:
  redhat-rpm-config
  rpm-build
Default Packages:
  rpmdevtools
Optional Packages:
  rpmlint
[root@ermimash yum.repos.d]# dnf groupinstall "RPM Development Tools"
Last metadata expiration check: 0:02:55 ago on Sat 27 Sep 2025 08:59:23 PM MSK.
Dependencies resolved.
=====
Package                                Architecture      Version            Repository          Size
=====
Installing group/module packages:
  rpmdevtools                               noarch            9.5-1.el9          appstream            75 k
Installing dependencies:
  python3-argcomplete                       noarch            1.12.0-5.el9       appstream            61 k
Installing Groups:
  RPM Development Tools

Transaction Summary
=====
Install 2 Packages

Total download size: 135 k
Installed size: 414 k
```

dnf history

```
Complete!  
[root@perimash yam.rpms.d]# dnf history  
## | Command line | Date and Time | Action(s) | | Altered  
-----  
7 | groupremove RPM Development Tools | 2015-09-17 11:02 | Removed | | 1  
6 | groupinstall RPM Development Tools | 2015-09-17 11:02 | Install | | 1  
5 | remove map- | 2015-09-17 11:00 | Removed | | 1  
4 | remove map- | 2015-09-17 11:00 | Removed | | 1  
3 | install map- | 2015-09-17 10:39 | Install | | 1  
2 | | 2015-09-12 18:38 | I, O | 100 +  
1 | | 2015-09-12 18:12 | Install | | 100 +  
[root@perimash yam.rpms.d]# dnf history web 6  
Last metadata expiration check: 8:03:54 ago on Sat 27 Sep 2015 08:56:23 PM EDT.  
Dependencies resolved.  
Nothing to do.  
Complete!  
Warning: the following problems occurred while running a transaction:  
Package nvrna "python2-argcomplete-1.12.0-5.el9.noarch" not installed for action "Removed".  
Package nvrna "rpmdevtools-9.5-1.el9.noarch" not installed for action "Removed".  
Group id 'rpm-development-tools' is not installed.
```

- dnf history

Установка lynx

- dnf list lynx
- dnf install lynx --downloadonly

```
(root@server1 ~)# dnf history
ID      | Command line                                | Date and Time    | Action(s)      | Alterred
-----|-----|-----|-----|-----
7 | groupremove RPM Development Tools          | 2015-08-27 11:01 | Removed        | 0
6 | groupinstall RPM Development Tools         | 2015-08-27 11:01 | Install        | 0
5 | remove rsap-                               | 2015-08-27 11:00 | Removed        | 1
4 | remove rsap-                               | 2015-08-27 11:00 | Removed        | 1
3 | install rsap-                             | 2015-08-27 10:59 | Install        | 1
2 |                                             | 2015-08-12 19:30 | T. U.         | 108
1 |                                             | 2015-08-12 19:22 | Install        | 1892

(root@server1 ~)# dnf list lynx
Last metadata expiration check: 6:44:52 ago on Sat 27 Sep 2015 08:56:23 PM RHEL7.
Available Packages
lynx.x86_64                                2.8.9-20.el8                                appstream

(root@server1 ~)# dnf install lynx --downloadonly
Last metadata expiration check: 6:45:06 ago on Sat 27 Sep 2015 08:56:23 PM RHEL7.
Dependencies resolved.
=====
Package                               Architecture Version                                Repository      Size
=====
Installing:
lynx                                  x86_64      2.8.9-20.el8                                appstream       1.5 M
=====
Transaction Summary
=====
```

Файлы lynx

Используя `rpm`, определите по имени файла, к какому пакету принадлежит `lynx`, и получите дополнительную информацию о содержимом пакета: - `rpm -qf $(which lynx)` - `rpm -qi lynx`

```
/usr/share/doc/lynx/test/dad.html.html
/usr/share/doc/lynx/test/c1.html
/usr/share/doc/lynx/test/circle.html
/usr/share/doc/lynx/test/cp-1252.html
/usr/share/doc/lynx/test/cp-1252a.html
/usr/share/doc/lynx/test/image.jpg
/usr/share/doc/lynx/test/iso-8859-1.html
/usr/share/doc/lynx/test/iso-8859-1a.html
/usr/share/doc/lynx/test/iso-8859-2.html
/usr/share/doc/lynx/test/iso-8859-2a.html
/usr/share/doc/lynx/test/koi8-r.html
/usr/share/doc/lynx/test/quickbrown.html
/usr/share/doc/lynx/test/raw8bit.html
/usr/share/doc/lynx/test/sgml.html
/usr/share/doc/lynx/test/spaces.html
/usr/share/doc/lynx/test/special_urls.html
/usr/share/doc/lynx/test/square.html
/usr/share/doc/lynx/test/tabtest.html
/usr/share/doc/lynx/test/text.html
```


Все действия аналогичны с действиями с предыдущим пакетом.

В ходе данной работы были получены навыки работы с репозиториями и менеджерами пакетов.