Лабораторная работа №4

Работа с программными пакетами

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Цель работы



Получить навыки работы с репозиториями и менеджерами пакетов.

Задание

- Изучить, как и в каких файлах подключаются репозитории для установки программного обеспечения; изучить основные возможности (поиск, установка, обновление, удаление пакета, работа с историей действий) команды dnf.
- Изучить и повторить процесс установки/удаления определённого пакета с использованием возможностей dnf.
- Изучить и повторите процесс установки/удаления определённого пакета с использованием возможностей rpm.

Ход выполнения лабораторной работы

```
[dosergeev@dosergeev ~]$ su -
Password:
[root@dosergeev ~]# cd /etc/yum.repos.d
[root@dosergeev yum.repos.d]# ls
epel-cisco-openh264.repo epel-testing.repo rocky-addons.repo rocky-extras.repo
epel.repo github-cli.repo rocky-devel.repo rocky.repo
```

Рис. 1: Репозитории в каталоге /etc/yum.repos.d

```
[root@dosergeev_vum.repos.d]# cat_epel-cisco-openh264.repo
[epel-cisco-openh264]
name=Extra Packages for Enterprise Linux 9 openh264 (From Cisco) - $basearch
metalink=https://mirrors.fedoraproject.org/metalink?repo=epel-cisco-openh264-9&arch=$basearch
type=rpm
enabled=1
metadata expire=14d
repo gpgcheck=0
gpgcheck=1
gpgkev=file:///etc/pki/rpm-gpg/RPM-GPG-KFY-FPFL-9
skip if unavailable=True
[enel-cisco-openh264-debuginfol
name=Extra Packages for Enterprise Linux 9 openh264 (From Cisco) - Shasearch - Debug
metalink=https://mirrors.fedoraproject.org/metalink?repo=epel-cisco-openh264-debug-9&arch=$ba
search
type=rpm
enabled=0
metadata_expire=14d
repo gpgcheck=0
gngcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-9
skip if unavailable=True
[enel-cisco-openh264-source]
name=Extra Packages for Enterprise Linux 9 openh264 (From Cisco) - Sbasearch - Source
metalink=https://mirrors.fedoraproject.org/metalink?repo=epel-cisco-openh264-source-9&arch=$b
asearch
type=rpm
enabled=0
metadata expire=14d
repo gpgcheck=0
gpgcheck=1
gpgkev=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-9
skip_if_unavailable=True
```

Рис. 2: Информация о пакетах в репозитории epel-cisco-openh264

- название пакета;
- ссылка на скачивание;
- тип пакета;
- состояния (включен/выключен);
- срок истечения мета-данных;
- прочая информация о ключе gpg.

```
[root@dosergeev yum.repos.d]# dnf repolist
repo id
             repo name
appstream
                   Rocky Linux 9 - AppStream
                   Rocky Linux 9 - BaseOS
baseos
crb
                   Rocky Linux 9 - CRB
epel
                   Extra Packages for Enterprise Linux 9 - x86_64
epel-cisco-openh264 Extra Packages for Enterprise Linux 9 openh264 (From Cisco) - x86_64
                   Rocky Linux 9 - Extras
extras
gh-cli
                   packages for the GitHub CLI
```

Рис. 3: Список репозиториев команды dnf repolist

Выведем на экран список пакетов, в названии или описании которых есть слово user. Сделаем это командой dnf search "шаблон". Она выведет 3 вида совпадений: по названию и описанию, по названию, по описанию.

```
atuin-all-users.noarch : atuin init script for all users
ghc-xdg-userdirs.x86 64 : Basic implementation of XDG user directories specification
ghc-xdg-userdirs-devel.x86_64 : Haskell xdg-userdirs library development files
ghc-xdg-userdirs-doc.noarch : Haskell xdg-userdirs library documentation
ghc-xdg-userdirs-prof.x86 64 : Haskell xdg-userdirs profiling library
gnome-user-docs.noarch : GNOME User Documentation
kuserfeedback.x86_64 : Framework for collecting user feedback for apps via telemetry and
                   : survevs
kuserfeedback-console.x86 64: Analytics and administration tool for UserFeedback
                          : servers
kuserfeedback-devel.x86 64 : Development files for kuserfeedback
libuser.x86_64 : A user and group account administration library
libuser.i686 : A user and group account administration library
libuser-devel.i686 : Files needed for developing applications which use libuser
libuser-devel.x86_64 : Files needed for developing applications which use libuser
```

```
anaconda-user-help.noarch : Content for the Anaconda built-in help system
gnome-shell-extension-user-theme.noarch : Support for custom themes in GNOME Shell
golang-github-tklauser-numcpus.x86_64 : Package numcpus provides information about the
                                   : number of CPUs in the system
golang-github-tklauser-numcpus-devel.noarch : Package numcpus provides information about
                                         : the number of CPUs in the system
golang-github-tklauser-sysconf-devel.noarch : Sysconf for Go, without using cgo
pam_ssh_user_auth.x86_64 : PAM module to help with SSH_AUTH_INFO_0
perl-LWP-UserAgent-Determined.noarch : Virtual browser that retries errors
perl-User-Identity.noarch : Maintains info about a physical person
rust-nix+user-devel.noarch : Rust friendly bindings to *nix APIs
rust-nix0.24+user-devel.noarch : Rust friendly bindings to *nix APIs
rust-nix0.26+user-devel.noarch : Rust friendly bindings to *nix APIs
rust-nix0.27+user-devel.noarch : Rust friendly bindings to *nix APIs
rust-nix0.28+user-devel.noarch : Rust friendly bindings to *nix APIs
rust-nix0.29+user-devel.noarch : Rust friendly bindings to *nix APIs
rust-sysinfo+user-devel.noarch : Library to get system information such as processes,
```

Рис. 5: Совпадения по имени

```
NetworkManager.x86 64 : Network connection manager and user applications
PackageKit-command-not-found.x86 64: Ask the user to install command line programs
                                 : automatically
accountsservice.x86 64 : D-Bus interfaces for querving and manipulating user account
                     : information
adobe-source-sans-pro-fonts.noarch : A set of OpenType fonts designed for user
                                : interfaces
anaconda-gui.x86 64 : Graphical user interface for the Anaconda installer
anaconda-tui.x86 64 : Textual user interface for the Anaconda installer
audit.x86 64 : User space tools for kernel auditing
authbind.x86 64 : Allow non-root users to open restricted ports
baresip.x86 64 : Modular SIP user-agent with audio and video support
baresip-gtk.x86 64 : GTK+ menu-based user interface module for baresip
bluefish.x86_64 : Web development application for experienced users
btrfs-progs.x86 64 : Userspace programs for btrfs
```

Рис. 6: Совпадения по описанию

```
[root@dosergeev_vum.repos.d]# dnf_search_nmap
Last metadata expiration check: 0:37:23 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
map.x86 64 : Network exploration tool and security scanner
map-ncat.x86 64 : Nmap's Netcat replacement
[root@dosergeev yum.repos.d]# dnf info nmap
Last metadata expiration check: 0:37:49 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Available Packages
Name
Epoch
Version
Release
          · 3 el9
Architecture : x86 64
Size
          : 5.4 M
           : nmap-7.92-3.el9.src.rpm
Source
Repository : appstream
           : Network exploration tool and security scanner
Summary
HRI
           : http://nmap.org/
License
           : Nmap
Description : Nmap is a utility for network exploration or security auditing. It
           : supports ping scanning (determine which hosts are up), many port scanning
           : techniques (determine what services the hosts are offering), and TCP/IP
           : fingerprinting (remote host operating system identification). Nmap also
           : offers flexible target and port specification, decoy scanning,
           : determination of TCP sequence predictability characteristics.
           : reverse-identd scanning, and more. In addition to the classic
           : command-line nmap executable, the Nmap suite includes a flexible data
           : transfer, redirection, and debugging tool (netcat utility neat), a
           : utility for comparing scan results (ndiff), and a packet generation and
           : response analysis tool (nping).
```

Рис. 7: Поиск пакетов птар

```
[root@dosergeev yum.repos.d]# dnf install nmap
Last metadata expiration check: 0:39:19 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Dependencies resolved.
Package
        Architecture
                            Version
                                                         Repository
                                                                              Size
Installing:
               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
```

Рис. 8: Установка птар

```
[root@dosergeev yum.repos.d]# dnf install nmap\*
Last metadata expiration check: 0:39:51 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Package nmap-3:7.92-3.el9.x86_64 is already installed.
Package nmap-ncat-3:7.92-3.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@dosergeev yum.repos.d]# dnf remove nmap
Dependencies resolved.
Package
                Architecture
                             Version
                                                           Repository
                                                                                  Size
Removing:
                            3:7.92-3.el9
                x86_64
                                                           @appstream
                                                                                  24 M
Transaction Summary
Remove 1 Package
Freed space: 24 M
Is this ok [y/N]: y
```

Рис. 9: Установка птар*, удаление птар

```
[root@dosergeev yum.repos.d]# dnf remove nmap\*
Dependencies resolved.
                    Architecture
Package
                                     Version
                                                            Repository
                                                                                  Size
Removing:
                              3:7.92-3.el9
                    x86_64
                                                            @AppStream
                                                                                 469 k
Transaction Summary
Remove 1 Package
Freed space: 469 k
Is this ok [y/N]: y
```

Рис. 10: Удаление птар*

```
[root@dosergeev vum.repos.d]# dnf groups list
Last metadata expiration check: 0:40:52 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Available Environment Groups:
   Server
  Minimal Install
  Workstation
  KDE Plasma Workspaces
  Custom Operating System
  Virtualization Host
Installed Environment Groups:
   Server with GUI
Installed Groups:
   Container Management
  Development Tools
  Headless Management
Available Groups:
   Fedora Packager
  VideoLAN Client
  Xfce
   Legacy UNIX Compatibility
  Console Internet Tools
   .NET Development
  Graphical Administration Tools
   Network Servers
   RPM Development Tools
   Scientific Support
   Security Tools
  Smart Card Support
  System Tools
```

```
[root@dosergeev yum.repos.d]# dnf groups info "RPM Development Tools"
Last metadata expiration check: 0:42:50 ago on Sat 27 Sep 2025 02:05:07 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@dosergeev vum.repos.d]# dnf groupinstall "RPM Development Tools"
Last metadata expiration check: 0:43:26 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Dependencies resolved.
Package
                            Architecture Version
                                                                 Repository
Installing group/module packages:
                            noarch
                                          9.5-1.el9
                                                                 appstream
                                                                                   75 k
Installing dependencies:
                            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
Is this ok [v/N]: v
```

```
[root@dosergeev yum.repos.d]# dnf groupremove "RPM Development Tools"
Dependencies resolved.
                            Architecture Version
                                                                 Repository
Package
                                                                                    Size
Removing:
                            noarch
                                          9.5-1.el9
                                                                 @appstream
                                                                                   195 k
Removing unused dependencies:
                                          1.12.0-5.el9
                            noarch
                                                                 @appstream
                                                                                   219 k
Removing Groups:
RPM Development Tools
Transaction Summary
Remove 2 Packages
Freed space: 414 k
Is this ok [y/N]: y
```

Рис. 13: Удаление RPM Development Tools

```
[root@dosergeev yum.repos.d]# dnf history
       I Command line
                                           | Date and time
                                                              | Action(s)
                                                                                | Altered
   17 | groupremove RPM Development Tools | 2025-09-27 14:49 | Removed
   16 | groupinstall RPM Development Tool | 2025-09-27 14:48 | Install
    15 | remove nmap*
                                             2025-09-27 14:45 | Removed
        remove nmap
                                             2025-09-27 14:45 | Removed
        install nmap
                                             2025-09-27 14:44 | Install
                                             2025-09-13 17:05 | I. U
                                             2025-09-13 16:50 | Install
        undate
                                             2025-09-06 19:19 | T. U.
                                                                                   195 FF
        install texlive-*
                                             2025-09-06 19:13 | Install
        install texlive-framed
                                             2025-09-06 19:12 | Install
        install python3-pip
                                             2025-09-06 19:10 | Install
        install libtirpc-devel R-core-dev
                                            2025-09-06 18:54 | I. U
        install enel-release
                                             2025-09-06 18:52 | Upgrade
        install R-core
                                             2025-09-06 18:28 | Install
        install epel-release
                                             2025-09-06 18:26 | Install
        -v install gh
                                             2025-09-06 18:06 | Install
                                             2025-09-06 17:37 | Install
                                                                                  1308 >E
[root@dosergeev yum.repos.d]# dnf history undo 17
Last metadata expiration check: 0:45:12 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Dependencies resolved.
                            Architecture Version
Installing group/module packages:
                                          9.5-1.el9
                                                                 appstream
                            noarch
Installing dependencies:
                           noarch
                                          1.12.0-5.el9
                                                                 appstream
                                                                                   61 k
Installing Groups:
RPM Development Tools
Transaction Summary
```

Рис. 14: Манипуляции с историей команд dnf

Скачаем rpm-пакет lynx.

```
[root@dosergeev yum.repos.d]# dnf list lynx
Last metadata expiration check: 0:45:53 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Available Packages
lynx.x86_64
                                       2 8 9-20 619
                                                                               appstream
[root@dosergeev yum.repos.d]# dnf install -y lynx --downloadonly
Last metadata expiration check: 0:46:12 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Dependencies resolved.
                                  Version
Package
                Architecture
                                                             Repository
                                                                                   Size
Installing:
                x86 64
                             2.8.9-20.el9
                                                             appstream
                                                                                  1.5 M
Transaction Summary
```

Рис. 15: Установка пакета lynx

```
[root@dosergeev_vum.repos.d]# find /var/cache/dnf/ -name_lvnx*
/var/cache/dnf/appstream-25485261a76941d3/packages/lvnx-2.8.9-20.el9.x86 64.rpm
[root@dosergeev vum.repos.d]# ^C
[root@dosergeev_vum.repos.d]# cd_/var/cache/dnf/appstream-25485261a76941d3/packages/lvnx-2.8.9-20.el9.x86_64.rpm
-bash: cd: /var/cache/dnf/appstream-25485261a76941d3/packages/lynx-2.8.9-20.el9.x86_64.rpm: Not a directory
[root@dosergeev_vum.repos.d]#_cd_/var/cache/dnf/appstream-25485261a76941d3/packages/
[root@dosergeev packages]# rpm -Uhv lynx-2.8.9-20.el9.x86 64.rpm
Verifying...
                                Preparing...
                                Updating / installing...
  1:lvnx-2.8.9-20.el9
                                [root@dosergeev packages]# which lvnx
/usr/bin/lynx
[root@dosergeev packages]#
```

Рис. 16: Ручная установка пакета через команду грт

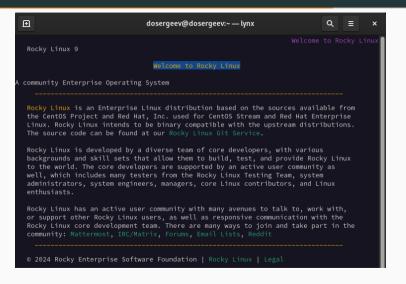
```
[root@dosergeev_packages]# rpm -qf $(which lvnx)
lvnx-2.8.9-20.el9.x86 64
[root@dosergeev packages]# rpm -qi lvnx
Version
Release : 20.el9
Architecture: x86 64
Install Date: Sat 27 Sep 2025 02:52:22 PM MSK
Group
Size
           : 6356615
License
           : GPLv2
Signature : RSA/SHA256, Tue 16 Apr 2024 02:13:04 AM MSK, Key ID 702d426d350d275d
Source RPM : lynx-2.8.9-20.el9.src.rpm
Build Date : Tue 16 Apr 2024 02:10:31 AM MSK
Build Host : pb-abd37acc-a1a8-4064-a86c-09fcc75626b8-b-x86-64
Packager : Rocky Linux Build System (Peridot) <releng@rockylinux.org>
           : Rocky Enterprise Software Foundation
Vendor
URL
           : http://lvnx.browser.org/
Summary
           : A text-based Web browser
Description :
Lynx is a text-based Web browser. Lynx does not display any images,
but it does support frames, tables, and most other HTML tags. One
advantage Lynx has over graphical browsers is speed; Lynx starts and
exits quickly and swiftly displays web pages.
[root@dosergeev packages]# rpm -ql lvnx
/etc/lynx-site.cfg
/etc/lvnx.cfg
/etc/lynx.lss
/usr/bin/lynx
/usr/lib/.build-id
/usr/lib/.build-id/5a
/usr/lib/.build-id/5a/06d3c4e1a8f4e4a2a1a5305737084bab728b85
/usr/share/doc/lvnx
/usr/share/doc/lynx/INSTALLATION
/usr/share/doc/lynx/README
/usr/share/doc/lynx/docs
```

Рис. 17: Поиск пакета rpm, информация о содержимом пакета

```
[root@dosergeev packages]# rpm -qd lynx | head -n 5
/usr/share/doc/lynx/INSTALLATION
/usr/share/doc/lynx/README
/usr/share/doc/lynx/docs/CHANGES2.3
/usr/share/doc/lynx/docs/CHANGES2.4
/usr/share/doc/lynx/docs/CHANGES2.5
[root@dosergeev packages]# rpm -qc lynx
/etc/lynx-site.cfg
/etc/lynx.cfg
/etc/lynx.lss
[root@dosergeev packages]#
```

Рис. 18: Файлы документации и файлы конфигов lynx

Попробуем вывести рпсположение и содержание скриптов, выполнямых при установке пакета. В моем случае их нет, поэтому продолжим.



Вернемся в root и удалим lynx.

```
[root@dosergeev packages]# rpm -q --scripts lynx
[root@dosergeev packages]#
[root@dosergeev packages]# rpm -e lynx
[root@dosergeev packages]# ls
lynx-2.8.9-20.el9.x86_64.rpm
```

Рис. 20: Удаление программы lynx

Совершим похожие действия для пакета dnsmasq.

```
[root@dosergeev packages]# dnf list dnsmasq
Last metadata expiration check: 0:55:20 ago on Sat 27 Sep 2025 02:05:07 PM MSK.
Installed Packages
dnsmasq.x86_64
2.85-16.el9_4
@AppStream
Available Packages
dnsmasq.x86_64
2.85-17.el9_6
appstream
[root@dosergeev packages]#
```

Рис. 21: Список пакетов dnsmasq

```
[root@dosergeev_packages]#_which_dosmasq
/usr/shin/dnsmasd
[root@dosergeev_packages]# rpm -qf $(dnsmasq)
rpm: no arguments given for query
[root@dosergeev packages]# rpm -qf $(which dnsmasq)
dnsmasg-2.85-17.el9 6.x86 64
[root@dosergeev packages]# rpm -qi dnsmasq
           : dnsmasq
Version
         : 2.85
Release
          : 17.el9 6
Architecture: x86 64
Install Date: Sat 27 Sep 2025 03:00:42 PM MSK
           : Unspecified
Size
License
         : GPLv2 or GPLv3
Signature : RSA/SHA256, Tue 16 Sep 2025 07:25:38 PM MSK, Key ID 702d426d350d275d
Source RPM : dnsmasg-2.85-17.el9 6.src.rpm
Build Date : Tue 16 Sep 2025 07:24:01 PM MSK
Build Host : pb-852acc29-a7d0-4436-82a9-1e2488a61ea0-b-x86-64
         : Rocky Linux Build System (Peridot) <releng@rockylinux.org>
Packager
          : Rocky Enterprise Software Foundation
Vendor
           : http://www.thekellevs.org.uk/dnsmasg/
           : A lightweight DHCP/caching DNS server
Summary
Description :
Dnsmasg is lightweight, easy to configure DNS forwarder and DHCP server.
It is designed to provide DNS and, optionally, DHCP, to a small network,
It can serve the names of local machines which are not in the global
DNS. The DHCP server integrates with the DNS server and allows machines
with DHCP-allocated addresses to appear in the DNS with names configured
either in each host or in a central configuration file. Dnsmasg supports
static and dynamic DHCP leases and BOOTP for network booting of diskless
machines.
[root@dosergeev packages]#
```

Рис. 22: Пакет файла dnsmasq и дополнительная информация

```
[root@dosergeev packages]# rpm -ql dnsmas<u>q | head -n 5</u>
/etc/dbus-1/system.d/dnsmasq.conf
/etc/dnsmasg.conf
/etc/dnsmasq.d
/usr/lib/.build-id
/usr/lib/.build-id/ce
[root@dosergeev packages]# rpm -qd dnsmasq
/usr/share/doc/dnsmasg/CHANGELOG
/usr/share/doc/dnsmasg/DBus-interface
/usr/share/doc/dnsmasg/FA0
/usr/share/doc/dnsmasg/doc.html
/usr/share/doc/dnsmasg/setup.html
/usr/share/man/man8/dnsmasq.8.gz
[root@dosergeev packages]# rpm -qc dnsmasq
/etc/dbus-1/system.d/dnsmasq.conf
/etc/dnsmasg.conf
[root@dosergeev packages]#
```

Рис. 23: Файлы документации и файлы конфигов dnsmasq

```
[root@dosergeev packages]# rpm -q --scripts dnsmasq
preinstall scriptlet (using /bin/sh):
#precreate users so that rom can install files owned by that user
  generated from dosmasq-systemd-sysusers.conf
getent group 'dnsmasg' >/dev/null || groupadd -r 'dnsmasg' || :
getent passwd 'dnsmasg' >/dev/null || \
   useradd -r -g 'dnsmasq' -d '/var/lib/dnsmasq' -s '/usr/sbin/nologin' -c 'Dnsmasq DHC
  and DNS server! 'dnsmasg' || :
postinstall scriptlet (using /bin/sh):
if [ $1 -eq 1 ] && [ -x "/usr/lib/systemd/systemd-update-helper" ]: then
    # Initial installation
    /usr/lib/systemd/systemd-update-helper install-system-units dnsmasg.service || :
preuninstall scriptlet (using /bin/sh):
if [ $1 -eq 0 ] && [ -x "/usr/lib/systemd/systemd-update-helper" ]; then
    # Package removal, not upgrade
    /usr/lib/systemd/systemd-update-helper remove-system-units dnsmasg.service | | :
postuninstall scriptlet (using /bin/sh):
if [ $1 -ge 1 ] && [ -x "/usr/lib/systemd/systemd-update-helper" ]: then
    # Package upgrade, not uninstall
    /usr/lib/systemd/systemd-update-helper mark-restart-system-upits dnsmasg.service ||
[root@dosergeev packages]# rpm -e dnsmask
error: package dosmask is not installed
[root@dosergeev packages]# rpm -e dnsmasq
 root@dosergeev packages]# ls
```

Рис. 24: Скрипты пакета dnsmasq

- preinstall: предварительно создает пользователей чтобы RPM мог установить файлы от лица этого пользователя;
- postinstall: осуществляет первоначальную установку;
- · preuninstall: удаляет пакет rpm;
- postuninstall: обновление пакета, вместо удаления.

- 1. Какая команда позволяетвам искать пакет rpm, содержащий файл useradd?
- · Можно использовать rpm -qf \$(which useradd).
- 2. Какие команды вам нужно использовать, чтобы показать имя группы dnf, которая содержит инструменты безопасности и показывает, что находится в этой группе?
- Можно использовать последовательность dnf group list | grep -i security , dnf group info "группа, которую нашли"
- · Или же одной командой dnf group info "*security*"

- 3. Какая команда позволяет вам установить rpm, который вы загрузили из Интернета и который не находится в репозиториях?
- sudo rpm -i пакет.rpm или sudo dnf install (путь к пакету)/пакет.rpm
- 4. Вы хотите убедиться, что пакет rpm, который вы загрузили, не содержит никакого опасного кода сценария. Какая команда позволяет это сделать?
- · Можно использовать rpm -qp -scripts пакет.rpm

- 5. Какая команда показывает всю документацию в rpm?
- · rpm -qd имя_пакета
- 6. Какая команда показывает, какому пакету rpm принадлежит файл?
- rpm -qf \$(which имя_исполняемого_файла) или же rpm -qf \$(путь_до_исполняемого_файла)





В результате выполнения лабораторной работы я получил навыки работы с репозиториями, менеджером пакетов dnf и пакетами rpm.