

Отчет по лабораторной работе №4

Простейший шаблон

Чилеше . Л

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Вводная часть

Получить навыки работы с репозиториями и менеджерами пакетов.

Выполнение лабораторной работы

- Перейдите в каталог /etc/yum.repos.d и изучите содержание каталога и файлов репозитория: cd /etc/yum.repos.d ls

```
[root@chilishelupupa ~]# cd /etc/yum.repos.d
[root@chilishelupupa yum.repos.d]# ls
rocky-addons.repo  rocky-devel.repo  rocky-extras.repo  rocky.repo
```

cat название_репозитория.repo

```
[root@chileshelepupa yum.repos.d]# cat rocky-addons.repo
# rocky-addons.repo
#
# The mirrorlist system uses the connecting IP address of the client and the
# update status of each mirror to pick current mirrors that are geographically
# close to the client. You should use this for Rocky updates unless you are
# manually picking other mirrors.
#
# If the mirrorlist does not work for you, you can try the commented out
# baseurl line instead.

[highavailability]
name=Rocky Linux $releasever - High Availability
mirrorlist=https://mirrors.rockylinux.org/mirrorlist?arch=$basearch&repo=HighAvailability-$releasever$rltype
#baseurl=http://dl.rockylinux.org/$contentdir/$releasever/HighAvailability/$basearch/os/
gpgcheck=1
enabled=0
countme=1
metadata_expire=6h
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-Rocky-9

[highavailability-debuginfo]
name=Rocky Linux $releasever - High Availability - Debug
mirrorlist=https://mirrors.rockylinux.org/mirrorlist?arch=$basearch&repo=HighAvailability-$releasever-debug$rltype
#baseurl=http://dl.rockylinux.org/$contentdir/$releasever/HighAvailability/$basearch/debug/tree/
gpgcheck=1
enabled=0
metadata_expire=6h
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-Rocky-9

[highavailability-source]
name=Rocky Linux $releasever - High Availability - Source
mirrorlist=https://mirrors.rockylinux.org/mirrorlist?arch=source&repo=HighAvailability-$releasever-source$rltype
#baseurl=http://dl.rockylinux.org/$contentdir/$releasever/HighAvailability/source/tree/
gpgcheck=1
enabled=0
metadata_expire=6h
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-Rocky-9

[resilientstorage]
name=Rocky Linux $releasever - Resilient Storage
mirrorlist=https://mirrors.rockylinux.org/mirrorlist?arch=$basearch&repo=ResilientStorage-$releasever$rltype
#baseurl=http://dl.rockylinux.org/$contentdir/$releasever/ResilientStorage/$basearch/os/
gpgcheck=1
enabled=0
countme=1
```


- Выведите на экран список репозиториев: dnf repolist

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

dnf search user

- Выведите на экран список пакетов, в названии или описании которых есть слово user:

dnf search user

```
[root@chilshelupupa yum.repos.d]# dnf search user
Last metadata expiration check: 6 days, 23:46:02 ago on Sat 21 Sep 2024 08:09:10 PM 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
usermode-gtk.x86_64 : Graphical tools for certain user account management tasks
userspace-rcu.x86_64 : RCU (read-copy-update) implementation in user-space
userspace-rcu.i686 : RCU (read-copy-update) implementation in user-space
util-linux-user.x86_64 : libuser based util-linux utilities
xdg-user-dirs.x86_64 : Handles user special directories
===== Name Matched: user =====
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
xdg-user-dirs-gtk.x86_64 : Gnome integration of special directories
===== Summary Matched: user =====
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 querying and manipulating user account information
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
cachefilesd.x86_64 : CacheFiles user-space management daemon
```

- Установите nmap, предварительно изучив информацию по имеющимся пакетам: `dnf search nmap`

```
[root@chilshelupupa yum.repos.d]# dnf search nmap
===== Name Exactly Matched: nmap =====
nmap.x86_64 : Network exploration tool and security scanner
===== Name & Summary Matched: nmap =====
nmap-ncat.x86_64 : Nmap's Netcat replacement
```

```
[root@chileshelepupa yum.repos.d]# dnf info nmap
```

Rocky Linux 9 - BaseOS	7.7 kB/s 4.1 kB	00:00
Rocky Linux 9 - BaseOS	2.4 MB/s 2.3 MB	00:00
Rocky Linux 9 - AppStream	7.8 kB/s 4.5 kB	00:00
Rocky Linux 9 - AppStream	5.2 MB/s 8.0 MB	00:01
Rocky Linux 9 - Extras	6.3 kB/s 2.9 kB	00:00

Available Packages

```
Name       : nmap
Epoch     : 3
Version    : 7.92
Release    : 1.el9
Architecture : x86_64
Size       : 5.4 M
Source     : nmap-7.92-1.el9.src.rpm
Repository : appstream
Summary    : Network exploration tool and security scanner
URL        : 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
```

dnf install nmap

```
[root@chileshelepupa yum.repos.d]# dnf install nmap
Last metadata expiration check: 0:00:56 ago on Sat 28 Sep 2024 07:57:18 PM MSK.
Dependencies resolved.
=====
Package                Architecture          Version               Repository            Size
=====
Installing:
nmap                   x86_64                3:7.92-1.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-7.92-1.el9.x86_64.rpm                                3.0 MB/s | 5.4 MB    00:01
=====
Total                                                    2.5 MB/s | 5.4 MB    00:02
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
```

dnf install nmap*

```
[root@chilshelupupa yum.repos.d]# dnf install nmap\*  
Last metadata expiration check: 0:02:11 ago on Sat 28 Sep 2024 07:57:18 PM MSK.  
Package nmap-3:7.92-1.el9.x86_64 is already installed.  
Package nmap-ncat-3:7.92-1.el9.x86_64 is already installed.  
Dependencies resolved.  
Nothing to do.  
Complete!
```

dnf remove nmap

Удалите nmap: dnf remove nmap

```
[root@chilshelupupa yum.repos.d]# dnf remove nmap
Dependencies resolved.
=====
Package                Architecture          Version              Repository           Size
=====
Removing:
nmap                   x86_64                3:7.92-1.el9        @appstream           24 M

Transaction Summary
=====
Remove 1 Package

Freed space: 24 M
Is this ok [y/N]: y
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Erasing        : nmap-3:7.92-1.el9.x86_64      1/1
  Running scriptlet: nmap-3:7.92-1.el9.x86_64      1/1
  Verifying      : nmap-3:7.92-1.el9.x86_64      1/1
```

dnf remove nmap*

```
[root@chilshelupupa yum.repos.d]# dnf remove nmap*
Dependencies resolved.
=====
Package                Architecture          Version               Repository            Size
=====
Removing:
nmap-ncat              x86_64               3:7.92-1.el9         @AppStream            469 k
=====
Transaction Summary
=====
Remove 1 Package

Freed space: 469 k
Is this ok [y/N]: y
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Running scriptlet: nmap-ncat-3:7.92-1.el9.x86_64 1/1
  Erasing        : nmap-ncat-3:7.92-1.el9.x86_64 1/1
  Running scriptlet: nmap-ncat-3:7.92-1.el9.x86_64 1/1
  Verifying      : nmap-ncat-3:7.92-1.el9.x86_64 1/1
```


dnf groups list

```
[root@chilshelupupa yum.repos.d]# dnf groups list
Last metadata expiration check: 0:05:27 ago on Sat 28 Sep 2024 07:57:18 PM MSK.
Available Environment Groups:
  Server
  Minimal Install
  Workstation
  Custom Operating System
  Virtualization Host
Installed Environment Groups:
  Server with GUI
Installed Groups:
  Container Management
  Development Tools
  Headless Management
Available Groups:
  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@chilshelupupa yum.repos.d]#
```

dnf groups info "RPM Development Tools"

```
[root@chileshepupupa yum.repos.d]# dnf groups info "RPM Development Tools"
Last metadata expiration check: 0:07:01 ago on Sat 28 Sep 2024 07:57:18 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
```

dnf groupinstall "RPM Development Tools"

```
[root@chilishelupupa yum.repos.d]# dnf groupinstall "RPM Development Tools"
Last metadata expiration check: 0:07:52 ago on Sat 28 Sep 2024 07:57:18 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
```

dnf groupremove "RPM Development Tools"

```
[root@chilshelupupa yum.repos.d]# dnf groupremove "RPM Development Tools"
Dependencies resolved.
=====
Package                                Architecture      Version           Repository        Size
=====
Removing:
rpmddevtools                          noarch            9.5-1.el9         @appstream        195 k
Removing unused dependencies:
python3-argcomplete                   noarch            1.12.0-5.el9      @appstream        219 k
Removing Groups:
RPM Development Tools

Transaction Summary
=====
Remove 2 Packages

Freed space: 414 k
Is this ok [y/N]: y
```

- Посмотрите историю использования команды dnf: dnf history

```
[root@chileshelepupa yum.repos.d]# dnf history
```

ID	Command line	Date and time	Action(s)	Altered
6	groupremove RPM Development Tools	2024-09-28 20:06	Removed	3
5	groupinstall RPM Development Tools	2024-09-28 20:05	Install	3
4	remove nmap	2024-09-28 20:01	Removed	1
3	remove nmap	2024-09-28 20:00	Removed	1
2	install nmap	2024-09-28 19:58	Install	1 <
1		2024-09-09 22:54	Install	1293 >E

dnf history undo 6

```
[root@chileshelepupa yum.repos.d]# dnf history undo 6
Last metadata expiration check: 0:11:03 ago on Sat 28 Sep 2024 07:57:18 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
Is this ok [y/N]: y
Downloading Packages:
(1/2): rpmdevtools-9.5-1.el9.noarch.rpm    327 kB/s | 75 kB    00:00
(2/2): python3-argcomplete-1.12.0-5.el9.noarch.rpm 261 kB/s | 61 kB    00:00
=====
```