

Лабораторная работа 13

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Задача

1. Используя `firewall-cmd`: – определить текущую зону по умолчанию; – определить доступные для настройки зоны; – определить службы, включённые в текущую зону; – добавить сервер VNC в конфигурацию брандмауэра.

1. Используя `firewall-cmd`: – определить текущую зону по умолчанию; – определить доступные для настройки зоны; – определить службы, включённые в текущую зону; – добавить сервер VNC в конфигурацию брандмауэра.
2. Используя `firewall-config`: – добавьте службы `http` и `ssh` в зону `public`; – добавьте порт 2022 протокола UDP в зону `public`; – добавьте службу `ftp`.

1. Используя `firewall-cmd`: – определить текущую зону по умолчанию; – определить доступные для настройки зоны; – определить службы, включённые в текущую зону; – добавить сервер VNC в конфигурацию брандмауэра.
2. Используя `firewall-config`: – добавьте службы `http` и `ssh` в зону `public`; – добавьте порт 2022 протокола UDP в зону `public`; – добавьте службу `ftp`.
3. Выполните задание для самостоятельной работы (раздел 13.5).

Выполнение

```
Rocky Linux 9.1 (Blue Onyx)
Kernel 5.14.0-162.6.1.el9_1.0.1.x86_64 on an x86_64

dmgeneralov login: [ 39.150045] systemd-journald[6531]: File /var/log/journal/cdffccdc2cb9b4b04b7fcc2821691b511/user-1001.journal corrupted or uncleanly shut down, renaming and replacing.
root
Password:
Last login: Sat Dec 17 14:52:25 on tty1
[root@dmgeneralov ~]# firewall-cmd --get-default-zone
public
[root@dmgeneralov ~]# firewall-cmd --get-zones
block dmz drop external home internal nm-shared public trusted work
[root@dmgeneralov ~]# firewall-cmd --get-services
DH-Satellite-6 DM-Satellite-6-capuante afp amanda-client amanda-k5-client ampp ampps apcupsd audit bacula bacula-client bb bpp bitcoin bitcoin-rpc bitcoin-testnet
t bitcoin-testnet-rpc bittorrent-lsd ceph ceph-mon cfwglue cockpit collectd condor-collector ctdb dhcp dhcpv6 dhcpv6-client distcc dns dns-over-tls docker-regi
stry docker-swarm dropbox-lansync elasticsearch etcd-client etcd-server finger foreman foreman-proxy freeipa-4 freeipa-ldap freeipa-ldaps freeipa-replication fr
eeipa-trust ftp galera ganglia-client ganglia-master git grafana gre high-availability http http3 https imap imaps ipp ipp-client ipsec irc ircs iscsi-target is
ns jellyfin jenkins kadmin kdeconnect kerberos kibana klogind kpasswd kprop kshell kube-api kube-apiserver kube-control-plane kube-controller-manager kube-schedu
ler kubelet-worker ldap ldaps libvirt libvirt-tls lightning-network llmnr llmnr-tcp llmnr-udp managesieve matrix mdns memcache minidlna mongodb mosh mountd mqtt
mqtt-tls ns-usb nssql murmur mysql nbd netbios-ns nfs nfs3 nmap-8183 nrpe ntp nut openvpn ovirt-imageio ovirt-storageconsole ovirt-vmconsole plex pncd pmpoxy
pncbapi pncbapis pop3 pop3s postgresql privoxy prometheus proxy-dhcp ptp pulseaudio puppetmaster quassel radius rdp redis redis-sentinel rpc-bind rquotad rsh
rsyncd rtsp salt-master samba samba-client samba-dc sane sip sips slp smtp smtp-submission smtps snmp snmptrap spideroak-lansync spotify-sync squid ssdp ssh ste
er ssh-http ssh-httpd sireguard ws-discovery ws-discovery-client ws-discovery-tcp ws-discovery-udp wsman wsmanx xdmcp xmpp-bosh xmpp-client xmpp-local xmpp-s
erver zabbix-agent zabbix-server zenitier
[root@dmgeneralov ~]# firewall-cmd --list-services
cockpit dhcpv6-client ssh
[root@dmgeneralov ~]#
```

Рис. 1: firewall-cmd

```
[root@dmgeneralov ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp1s0
  sources:
  services: cockpit dhcpv6-client ssh
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@dmgeneralov ~]# firewall-cmd --list-all --zone=public
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp1s0
  sources:
  services: cockpit dhcpv6-client ssh
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@dmgeneralov ~]#
```



```
target: default
icmp-block-inversion: no
interfaces: enp1s8
sources:
services: cockpit dhcpv6-client ssh
ports:
protocols:
forward: yes
masquerade: no
forward-ports:
source-ports:
icmp-blocks:
rich rules:
[root@dmgeneralov ~]# firewall-cmd --reload
success
[root@dmgeneralov ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp1s8
  sources:
  services: cockpit dhcpv6-client ssh vnc-server
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@dmgeneralov ~]# firewall-cmd --add-port=2822/tcp --permanent
success
[root@dmgeneralov ~]# firewall-cmd --reload
success
[root@dmgeneralov ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp1s8
  sources:
  services: cockpit dhcpv6-client ssh vnc-server
  ports: 2822/tcp
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@dmgeneralov ~]#
```

firewall-cmd

```

pipewire-libs x86_64 0.3.47-2.e19 appstream 1.5 M
pixman x86_64 0.40.0-5.e19 appstream 269 k
polkit-libs x86_64 0.117-10.e19_0 baseos 8.2 M
polkit-pkla-compat x86_64 0.1-21.e19 baseos 44 k
poppler x86_64 21.01.0-13.e19 appstream 1.1 M
poppler-data noarch 0.4.9-9.e19 appstream 1.8 M
poppler-glib x86_64 21.01.0-13.e19 appstream 153 k
pulseaudio-libs x86_64 15.0-2.e19 appstream 666 k
pulseaudio-utils x86_64 15.0-2.e19 appstream 72 k
python3-cairo x86_64 1.20.1-1.e19 appstream 91 k
python3-gobject x86_64 3.40.1-6.e19 appstream 16 k
rtkit x86_64 0.11-28.e19 appstream 55 k
shared-mime-info x86_64 2.1-4.e19 baseos 373 k
sound-theme-freedesktop noarch 0.8-17.e19 appstream 377 k
totem-pl-parser x86_64 3.26.6-2.e19 appstream 130 k
tracker x86_64 3.1.2-2.e19 appstream 539 k
upower x86_64 0.99.13-2.e19 appstream 165 k
webkit-loader x86_64 1.3.224.0-2.e19 appstream 139 k
webkit2gtk3-jsc x86_64 2.36.7-1.e19 appstream 6.3 M
webkit-audio-io-processing x86_64 0.3.1-0.e19 appstream 304 k
wireplumber x86_64 0.4.0-1.e19 appstream 73 k
wireplumber-libs x86_64 0.4.0-1.e19 appstream 316 k
xdg-dbus-proxy x86_64 0.1.3-1.e19 appstream 41 k
xdg-desktop-portal x86_64 1.12.4-1.e19 appstream 366 k
xkeyboard-config noarch 2.33-2.e19 appstream 779 k
xul-common noarch 0.6.3-58.e19 appstream 31 k

Installing weak dependencies:
abattis-cantarell-fonts noarch 0.301-4.e19 appstream 364 k
adobe-source-code-pro-fonts noarch 2.030.1.050-12.e19_1 appstream 831 k
dconf x86_64 0.40.0-6.e19 appstream 109 k
exiv2 x86_64 0.27.5-2.e19 appstream 975 k
flatpak x86_64 1.12.7-2.e19 appstream 1.7 M
libcanberra-gtk3 x86_64 0.30-26.e19 appstream 31 k
libproxy-webkitgtk4 x86_64 0.4.15-35.e19 appstream 21 k
p11-kit-server x86_64 0.24.1-2.e19 appstream 194 k
pipewire x86_64 0.3.47-2.e19 appstream 35 k
pipewire-alsa x86_64 0.3.47-2.e19 appstream 50 k
pipewire-jack-audio-connection-kit x86_64 0.3.47-2.e19 appstream 130 k
pipewire-pulseaudio x86_64 0.3.47-2.e19 appstream 23 k
polkit x86_64 0.117-10.e19_0 baseos 146 k
tracker-miners x86_64 3.1.2-1.e19 appstream 800 k
xdg-desktop-portal-gtk x86_64 1.12.0-3.e19 appstream 130 k

Transaction Summary
=====
Install 170 Packages

Total download size: 100 M
Installed size: 399 M
Is this ok [y/N]:

```

Рис. 4: firewall-cmd

```
[root@dmgeneralov ~]# firewall-cmd --add-service=http --add-service=ssh --add-service=ftp --zone=public --permanent
Warning: ALREADY_ENABLED: ssh
success
[root@dmgeneralov ~]# firewall-cmd --add-port=2822/udp --zone=public --permanent
success
[root@dmgeneralov ~]# firewall-cmd --reload
success
[root@dmgeneralov ~]# firewall-cmd --show-all
usage: see firewall-cmd man page
firewall-cmd: error: unrecognized arguments: --show-all
[root@dmgeneralov ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp1s8
  sources:
  services: cockpit dhcpv6-client ftp http ssh vnc-server
  ports: 2822/tcp 2822/udp
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@dmgeneralov ~]# _
```

Рис. 5: firewall-cmd

```
[root@dmgeneralov ~]# firewall-cmd --add-service=telnet --add-service=imap --add-service=pop3 --add-service=smtp --zone=public --permanent
success
[root@dmgeneralov ~]# firewall-cmd --reload
success
[root@dmgeneralov ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp1s8
  sources:
  services: cockpit dhcpv6-client ftp http imap pop3 smtp ssh telnet vnc-server
  ports: 2822/tcp 2822/udp
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@dmgeneralov ~]#
```

Рис. 6: firewall-cmd

```
Rocky Linux 9.1 (Blue Onyx)
Kernel 5.14.0-162.6.1.el9_1.0.1.x86_64 on an x86_64

dmgeneralov login: root
Password:
Last login: Sat Dec 24 12:48:26 on tty1
[root@dmgeneralov ~]# uptime
13:06:48 up 8 min, 1 user, load average: 0.20, 0.05, 0.02
[root@dmgeneralov ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp1s0
  sources:
  services: cockpit dhcpv6-client ftp http imap pop3 smtp ssh telnet vnc-server
  ports: 2822/tcp 2822/udp
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@dmgeneralov ~]#
```

Рис. 7: firewall-cmd

Я получил опыт работы с фильтром пакетов в Linux.