

Защита лабораторной работы № 4

Базовая настройка HTTP-сервера Apache

Администрирование сетевых подсистем

Работу Выполнил:
Саинт-Амур Измаэль
Группа: НПИбд-02-20



Цель работы

Приобретение практических навыков по установке и базовому конфигурированию HTTP-сервера Apache.

Установка HTTP-сервера

```
[root@server.saismael.net ~]# dnf -y groupinstall "Basic web server"
Last metadata expiration check: 0:01:17 ago on Sun 27 Nov 2022 12:24:35 PM UTC.
Dependencies resolved.
=====
Package                Arch      Version              Repository           Size
=====
Installing group/module packages:
httpd                  x86_64    2.4.53-7.el9         appstream            48 k
httpd-manual           noarch    2.4.53-7.el9         appstream            2.2 M
mod_fcgid              x86_64    2.3.9-28.el9         appstream            74 k
mod_ssl                x86_64    1:2.4.53-7.el9       appstream            111 k
Installing dependencies:
apr                    x86_64    1.7.0-11.el9         appstream            123 k
apr-util              x86_64    1.6.1-20.el9         appstream            94 k
apr-util-bdb          x86_64    1.6.1-20.el9         appstream            13 k
httpd-core            x86_64    2.4.53-7.el9         appstream            1.4 M
httpd-filesystem      noarch    2.4.53-7.el9         appstream            15 k
httpd-tools           x86_64    2.4.53-7.el9         appstream            82 k
rocky-logos-httpd     noarch    90.13-1.el9          appstream            24 k
Installing weak dependencies:
apr-util-openssl      x86_64    1.6.1-20.el9         appstream            15 k
mod_http2             x86_64    1.15.19-2.el9        appstream            149 k
mod_lua               x86_64    2.4.53-7.el9         appstream            62 k
Installing Groups:
```

Базовое конфигурирование HTTP-сервера

```
Complete!
[root@server.saismael.net ~]# firewall-cmd --list-services
cockpit dhcp dhcpv6-client dns ssh
[root@server.saismael.net ~]# firewall-cmd --get-services
RH-Satellite-6 RH-Satellite-6-capsule amanda-client amanda-k5-client amqp amqps
apcupsd audit bacula bacula-client bb bgp bitcoin bitcoin-rpc bitcoin-testnet bi
tcoin-testnet-rpc bittorrent-lsd ceph ceph-mon cfengine cockpit collectd condor-
collector ctdb dhcp dhcpv6 dhcpv6-client distcc dns dns-over-tls docker-registry
docker-swarm dropbox-lansync elasticsearch etcd-client etcd-server finger forem
an foreman-proxy freeipa-4 freeipa-ldap freeipa-ldaps freeipa-replication freeip
a-trust ftp galera ganglia-client ganglia-master git grafana gre high-availabili
ty http https imap imaps ipp ipp-client ipsec irc ircs iscsi-target isns jenkins
kadmin kdeconnect kerberos kibana klogin kpasswd kprop kshell kube-api kube-api
server kube-control-plane kube-controller-manager kube-scheduler kubelet-worker
ldap ldaps libvirt libvirt-tls lightning-network llmnr managesieve matrix mdns m
emcache minidlna mongodb mosh mountd mqtt mqtt-tls ms-wbt mssql murmur mysql nbd
netbios-ns nfs nfs3 nmea-0183 nrpe ntp nut openvpn ovirt-imageio ovirt-storagec
onsole ovirt-vmconsole plex pmcd pmproxy pmwebapi pmwebapis pop3 pop3s postgresq
l privoxy prometheus proxy-dhcp ptp pulseaudio puppetmaster quassel radius rdp r
edis redis-sentinel rpc-bind rquotad rsh rsyncd rtsp salt-master samba samba-cli
ent samba-dc sane sip sips slp smtp smtp-submission smtps snmp snmptrap spideroa
k-lansync spotify-sync squid ssdp ssh steam-streaming svdrp svn syncthing syncth
ing-gui synergy syslog syslog-tls telnet tentacle tftp tile38 tinc tor-socks tra
```

```
[root@server.saismael.net ~]# firewall-cmd --add-service=http
success
[root@server.saismael.net ~]# firewall-cmd --add-service=http --permanent
success
```



```
root@server.saismael.net ~]# systemctl start httpd
root@server.saismael.net ~]# tail -f /var/log/httpd/error_log
tail: cannot open '/var/log/httpd/error_log' for reading: No such file or directory
tail: no files remaining
root@server.saismael.net ~]# tail -f /var/log/httpd/error_log
[Sun Nov 27 12:30:05.268021 2022] [core:notice] [pid 6578:tid 6578] SELinux policy enabled; httpd running as context system_u:system_r:httpd_t:s0
[Sun Nov 27 12:30:05.273798 2022] [suexec:notice] [pid 6578:tid 6578] AH01232: suEXEC mechanism enabled (wrapper: /usr/sbin/suexec)
[Sun Nov 27 12:30:05.364063 2022] [lbmethod_heartbeat:notice] [pid 6578:tid 6578] AH02282: No slotmem from mod_heartbeat
[Sun Nov 27 12:30:05.395671 2022] [mpm_event:notice] [pid 6578:tid 6578] AH00489: Apache/2.4.53 (Rocky Linux) OpenSSL/3.0.1 mod_fcgid/2.3.9 configured -- resuming normal operations
[Sun Nov 27 12:30:05.395812 2022] [core:notice] [pid 6578:tid 6578] AH00094: Command line: '/usr/sbin/httpd -D FOREGROUND'

^Z
[1]+  Stopped                  tail -f /var/log/httpd/error_log
root@server.saismael.net ~]# tail -f /var/log/httpd/access_log

^Z
```

Настройка виртуального хостинга для HTTP-сервера

```
saismael.net [-M--] 0 L:[ 1+16 17/ 17] *(392 / 392b) <EOF> [*][X]
$ORIGIN .
$TTL 86400<---->; 1 day
saismael.net<--><---->IN SOA<-->saismael.net. server.saismael.net. (
<----><----><----><----><---->2020110504 ; serial
<----><----><----><----><---->86400 ; refresh (1 day)
<----><----><----><----><---->3600 ; retry (1 hour)
<----><----><----><----><---->604800 ; expire (1 week)
<----><----><----><----><---->10800 ; minimum (3 hours)
<----><----><----><----><---->)
<----><----><----><----><---->NS<---->saismael.net.
<----><----><----><----><---->A<---->192.168.1.1
$ORIGIN saismael.net.
dhcp<--><----><----><----><----><---->A<---->192.168.1.1
ns<--><----><----><----><----><---->A<---->192.168.1.1
server<--><----><----><----><----><---->A<---->192.168.1.1
www<--><----><----><----><----><---->A<---->192.168.1.1
1Help 2Save 3Mark 4Replac 5Copy 6Move 7Search 8Delete 9PullDn10Quit
```

```
saismael.net [-M--] 0 L:[ 1+16 17/ 17] *(392 / 392b) <EOF> [*][X]
$ORIGIN .
$TTL 86400<---->; 1 day
saismael.net<--><---->IN SOA<-->saismael.net. server.saismael.net. (
<----><----><----><----><---->2020110504 ; serial
<----><----><----><----><---->86400 ; refresh (1 day)
<----><----><----><----><---->3600 ; retry (1 hour)
<----><----><----><----><---->604800 ; expire (1 week)
<----><----><----><----><---->10800 ; minimum (3 hours)
<----><----><----><----><---->)
<----><----><----><----><---->NS<---->saismael.net.
<----><----><----><----><---->A<---->192.168.1.1
$ORIGIN saismael.net.
dhcp<--><----><----><----><----><---->A<---->192.168.1.1
ns<--><----><----><----><----><---->A<---->192.168.1.1
server<--><----><----><----><----><---->A<---->192.168.1.1
www<--><----><----><----><----><---->A<---->192.168.1.1
1Help 2Save 3Mark 4Replac 5Copy 6Move 7Search 8Delete 9PullDn10Quit
```

Внесение изменений в настройки внутреннего окружения виртуальной машины

```
http.sh [----] 22 L:[ 2+20 22/ 23] *(492 / 514b) 0010 0x00A [*][X]

echo "Provisioning script $0"

echo "Install needed packages"
dnf -y groupinstall "Basic Web Server"

echo "Copy configuration files"
cp -R /vagrant/provision/server/http/etc/httpd/* /etc/httpd
cp -R /vagrant/provision/server/http/var/www/* /var/www

chown -R apache:apache /var/www

restorecon -vR /etc
restorecon -vR /var/www

echo "Configure firewall"
firewall-cmd --add-service=http
firewall-cmd --add-service=http --permanent

echo "Start http service"
systemctl enable httpd
systemctl start httpd
1Help 2Save 3Mark 4Replac 5Copy 6Move 7Search 8Delete 9PullDn10Quit
```

Приобрел практические навыки по установке и базовому конфигурированию HTTP-сервера Apache.