Отчет лабораторной работы 4

Дисциплина: Администрирование сетевых подсистем

Тема

Базовая настройка HTTP-сервера Apache

Выполнение работы

Установка HTTP-сервера.

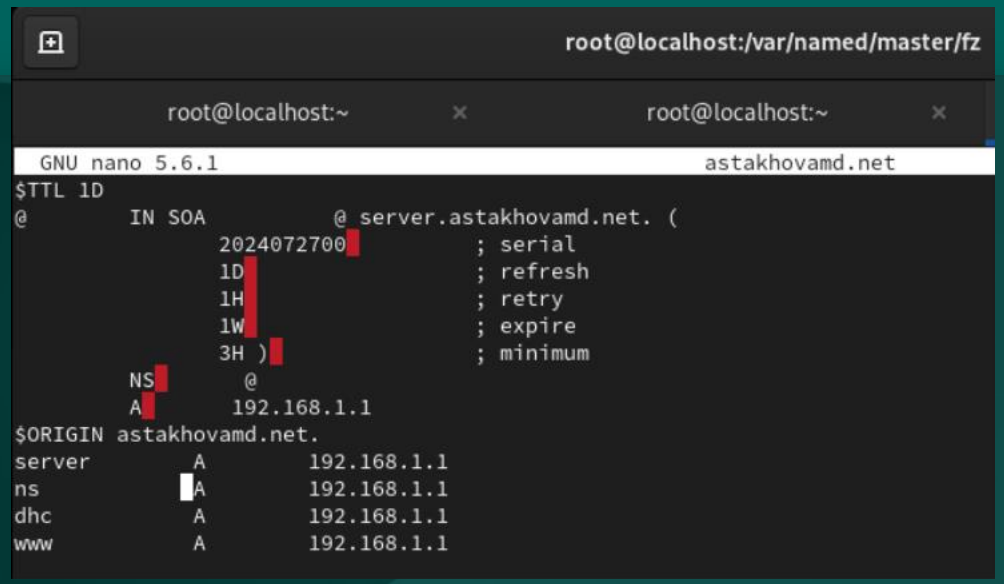
```
[root@localhost.user.net ~]# dnf -y groupinstall "Basic Web Server"
Last metadata expiration check: 0:00:36 ago on Mon 17 Nov 2025 08:53:35 PM UTC.
Dependencies resolved.
==========================================================================================
 Package                    Architecture     Version                     Repository          Size
==========================================================================================
Installing group/module packages:
 httpd                      x86_64           2.4.62-4.el9_6.4            appstream           44 k
 httpd-manual               noarch           2.4.62-4.el9_6.4            appstream          2.2 M
 mod_fcgid                  x86_64           2.3.9-28.el9                appstream           74 k
 mod_ssl                    x86_64           1:2.4.62-4.el9_6.4          appstream          108 k
Installing dependencies:
 apr                        x86_64           1.7.0-12.el9_3              appstream          122 k
 apr-util                   x86_64           1.6.1-23.el9                appstream           94 k
 apr-util-bdb               x86_64           1.6.1-23.el9                appstream           12 k
 httpd-core                 x86_64           2.4.62-4.el9_6.4            appstream          1.4 M
 httpd-filesystem           noarch           2.4.62-4.el9_6.4            appstream           11 k
 httpd-tools                x86_64           2.4.62-4.el9_6.4            appstream           78 k
 rocky-logos-httpd          noarch           90.16-1.el9                 appstream           24 k
```

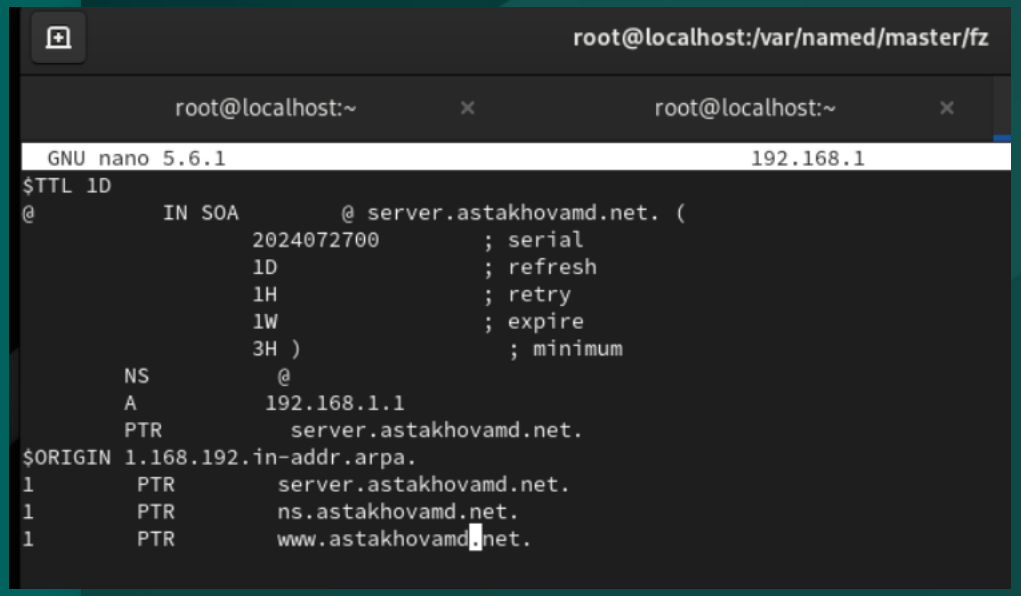
```
[astakhovamd@localhost.user.net ~]$ sudo -i
[root@localhost.user.net ~]# LANG=C yum grouplist
Extra Packages for Enterprise Linux 9 - x86_64  6.2 kB/s |  35 kB     00:05
Extra Packages for Enterprise Linux 9 - x86_64                      691 kB/s |  20 MB     00:29
Rocky Linux 9 - BaseOS                                               400  B/s | 4.1 kB     00:10
Rocky Linux 9 - AppStream                                            442  B/s | 4.5 kB     00:10
Rocky Linux 9 - Extras                                               287  B/s | 2.9 kB     00:10
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
```

Базовое конфигурирование HTTP-сервера.

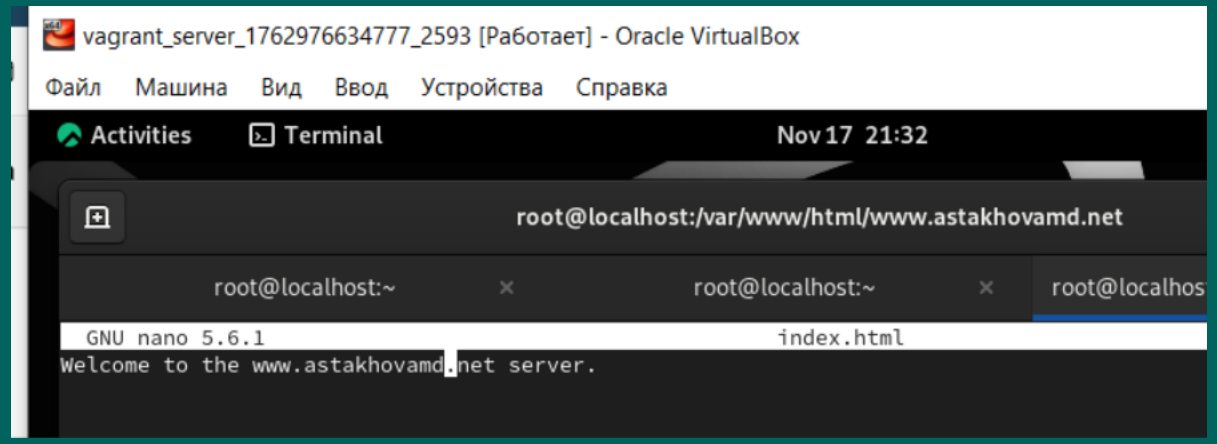
```
Complete!
[root@localhost.user.net ~]# firewall-cmd --list-services
cockpit dhcp dhcpv6-client dns ssh
[root@localhost.user.net ~]# firewall-cmd --get-services
RH-Satellite-6 RH-Satellite-6-capsule afp amanda-client amanda-k5-client amqp amqps apcupsd audit aus
weisapp2 bacula bacula-client bareos-director bareos-filedaemon bareos-storage bb bgp bitcoin bitcoin
-rpc bitcoin-testnet bitcoin-testnet-rpc bittorrent-lsd ceph ceph-exporter ceph-mon cfengine checkmk-
agent cockpit collectd condor-collector cratedb ctdb dds dds-multicast dds-unicast dhcp dhcpv6 dhcpv6
-client distcc dns dns-over-tls docker-registry docker-swarm dropbox-lansync elasticsearch etcd-clien
t etcd-server finger foreman foreman-proxy freeipa-4 freeipa-ldap freeipa-ldaps freeipa-replication f
reeipa-trust ftp galera ganglia-client ganglia-master git gpsd grafana gre high-availability http htt
p3 https ident imap imaps ipfs ipp ipp-client ipsec irc ircs iscsi-target isns jenkins kadmin kdeconn
ect kerberos kibana klogin kpasswd kprop kshell kube-api kube-apiserver kube-control-plane kube-contr
ol-plane-secure kube-controller-manager kube-controller-manager-secure kube-nodeport-services kube-sc
heduler kube-scheduler-secure kube-worker kubelet kubelet-readonly kubelet-worker ldap ldaps libvirt
libvirt-tls lightning-network llmnr llmnr-client llmnr-tcp llmnr-udp managesieve matrix mdns memcache
 minidlna mongodb mosh mountd mqtt mqtt-tls ms-wbt mssql murmur mysql nbd nebula netbios-ns netdata-d
ashboard nfs nfs3 nmea-0183 nrpe ntp nut opentelemetry openvpn ovirt-imageio ovirt-storageconsole ovi
rt-vmconsole plex pmcd pmproxy pmwebapi pmwebapis pop3 pop3s postgresql privoxy prometheus prometheus
-node-exporter proxy-dhcp ps2link ps3netsrv ptp pulseaudio puppetmaster quassel radius rdp redis redi
s-sentinel rootd rpc-bind rquotad rsh rsyncd rtsp salt-master samba samba-client samba-dc sane sip si
ps slp smtp smtp-submission smtps snmp snmptls snmptls-trap snmptrap spideroak-lansync spotify-sync s
```

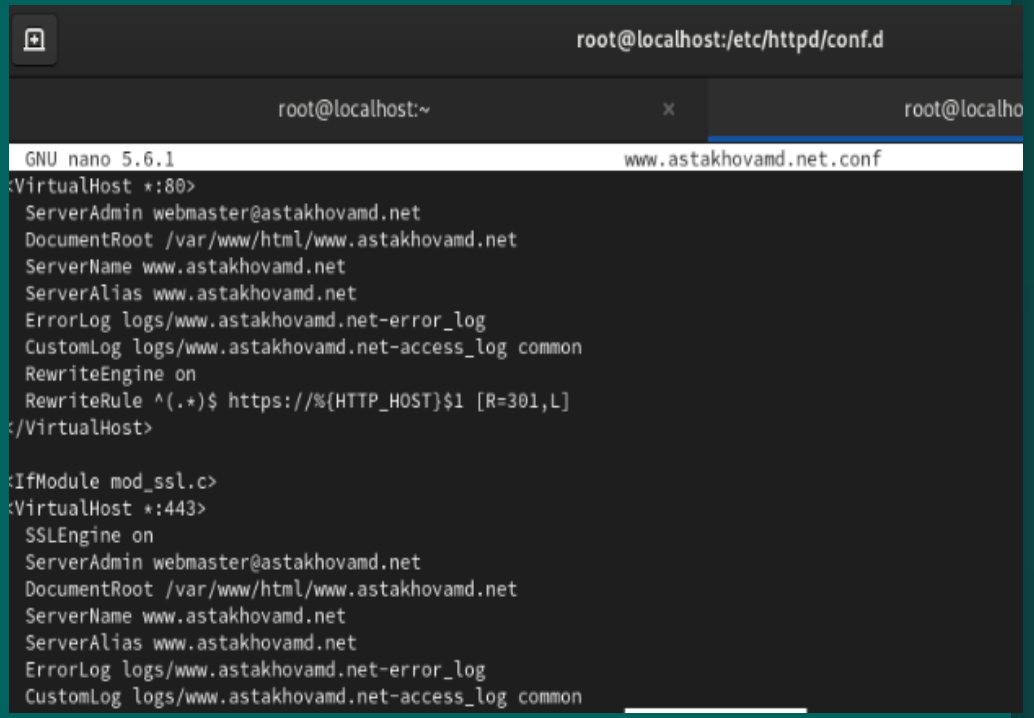
```
-client distcc dns dns-over-tls docker-registry docker-swarm dropbox-lansync elasticsearch etcd-clien
t etcd-server finger foreman foreman-proxy freeipa-4 freeipa-ldap freeipa-ldaps freeipa-replication f
reeipa-trust ftp galera ganglia-client ganglia-master git gpsd grafana gre high-availability http htt
p3 https ident imap imaps ipfs ipp ipp-client ipsec irc ircs iscsi-target isns jenkins kadmin kdeconn
ect kerberos kibana klogin kpasswd kprop kshell kube-api kube-apiserver kube-control-plane kube-contr
ol-plane-secure kube-controller-manager kube-controller-manager-secure kube-nodeport-services kube-sc
heduler kube-scheduler-secure kube-worker kubelet kubelet-readonly kubelet-worker ldap ldaps libvirt
libvirt-tls lightning-network llmnr llmnr-client llmnr-tcp llmnr-udp managesieve matrix mdns memcache
 minidlna mongodb mosh mountd mqtt mqtt-tls ms-wbt mssql murmur mysql nbd nebula netbios-ns netdata-d
ashboard nfs nfs3 nmea-0183 nrpe ntp nut opentelemetry openvpn ovirt-imageio ovirt-storageconsole ovi
rt-vmconsole plex pmcd pmproxy pmwebapi pmwebapis pop3 pop3s postgresql privoxy prometheus prometheus
-node-exporter proxy-dhcp ps2link ps3netsrv ptp pulseaudio puppetmaster quassel radius rdp redis redi
s-sentinel rootd rpc-bind rquotad rsh rsyncd rtsp salt-master samba samba-client samba-dc sane sip si
ps slp smtp smtp-submission smtps snmp snmptls snmptls-trap snmptrap spideroak-lansync spotify-sync s
quid ssdp ssh steam-streaming svdrp svn syncthing syncthing-gui syncthing-relay synergy syslog syslog
-tls telnet tentacle tftp tile38 tinc tor-socks transmission-client upnp-client vdsm vnc-server warpi
nator wbem-http wbem-https wireguard ws-discovery ws-discovery-client ws-discovery-tcp ws-discovery-u
dp wsman wsmans xdmcp xmpp-bosh xmpp-client xmpp-local xmpp-server zabbix-agent zabbix-server zerotie
r
[root@localhost.user.net ~]# firewall-cmd --add-service=http
success
[root@localhost.user.net ~]# firewall-cmd --add-service=http --permanent
success
```





Настройка виртуального хостинга для HTTP-сервера.

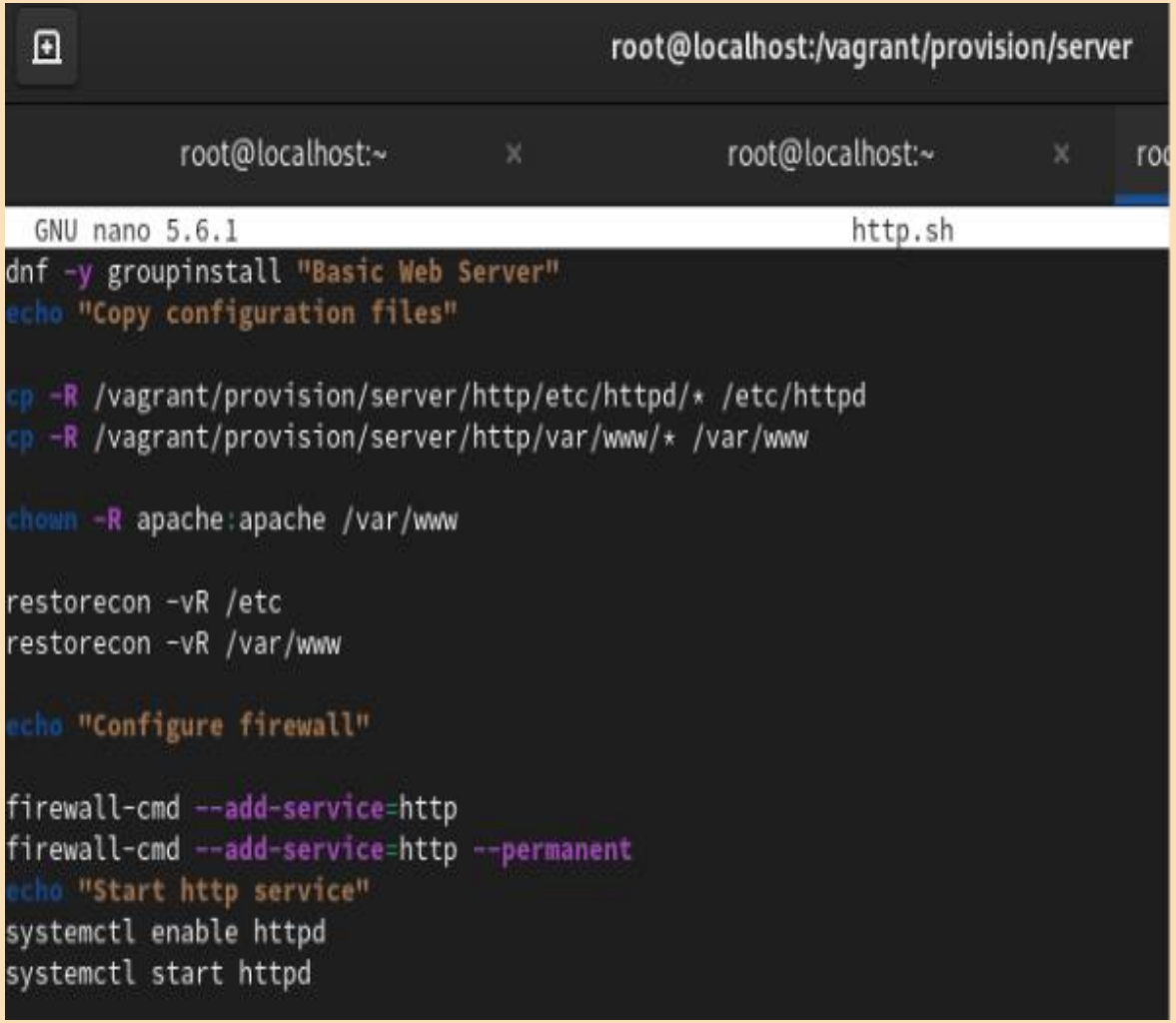

vagrant_server_1762976634777_2593 [Работает] - Oracle VirtualBox
Файл Машина Вид Ввод Устройства Справка
Activities
Terminal
Nov 17 21:32
root@localhost:/var/www/html/www.astakhovamd.net
root@localhost:~
root@localhost:~
root@localhos
GNU nano 5.6.1
index.html
Welcome to the www.astakhovamd.net server.


root@localhost:/etc/httpd/conf.d
root@localhost:~
root@localho
GNU nano 5.6.1
www.astakhovamd.net.conf
<VirtualHost *:80>
ServerAdmin webmaster@astakhovamd.net
DocumentRoot /var/www/html/www.astakhovamd.net
ServerName www.astakhovamd.net
ServerAlias www.astakhovamd.net
ErrorLog logs/www.astakhovamd.net-error_log
CustomLog logs/www.astakhovamd.net-access_log common
RewriteEngine on
RewriteRule ^(.*)$ https://%{HTTP_HOST}$1 [R=301,L]
</VirtualHost>
<IfModule mod_ssl.c>
<VirtualHost *:443>
SSLEngine on
ServerAdmin webmaster@astakhovamd.net
DocumentRoot /var/www/html/www.astakhovamd.net
ServerName www.astakhovamd.net
ServerAlias www.astakhovamd.net
ErrorLog logs/www.astakhovamd.net-error_log
CustomLog logs/www.astakhovamd.net-access_log common

Настройка виртуального хостинга для HTTP-сервера

```
[root@localhost.user.net html]# mkdir server.astakhovamd.net
[root@localhost.user.net html]# cd /var/www/html/server.astakhovamd.net
[root@localhost.user.net server.astakhovamd.net]# touch index.html
[root@localhost.user.net server.astakhovamd.net]# sudo nano index.html
[root@localhost.user.net server.astakhovamd.net]# cd /var/www/html
[root@localhost.user.net html]# mkdir www.astakhovamd.net
[root@localhost.user.net html]# cd /var/www/html/www.astakhovamd.net
[root@localhost.user.net www.astakhovamd.net]# touch index.html
[root@localhost.user.net www.astakhovamd.net]#
```

```
[root@localhost.user.net www.astakhovamd.net]# sudo nano index.html
[root@localhost.user.net www.astakhovamd.net]# chown -R apache:apache /var/www
[root@localhost.user.net www.astakhovamd.net]# restorecon -vR /etc
[root@localhost.user.net www.astakhovamd.net]# restorecon -vR /var/named
[root@localhost.user.net www.astakhovamd.net]# restorecon -vR /var/www
[root@localhost.user.net www.astakhovamd.net]# systemctl restart httpd
```



Внесение изменений
В
настройки внутреннего
окружения
виртуальной машины.

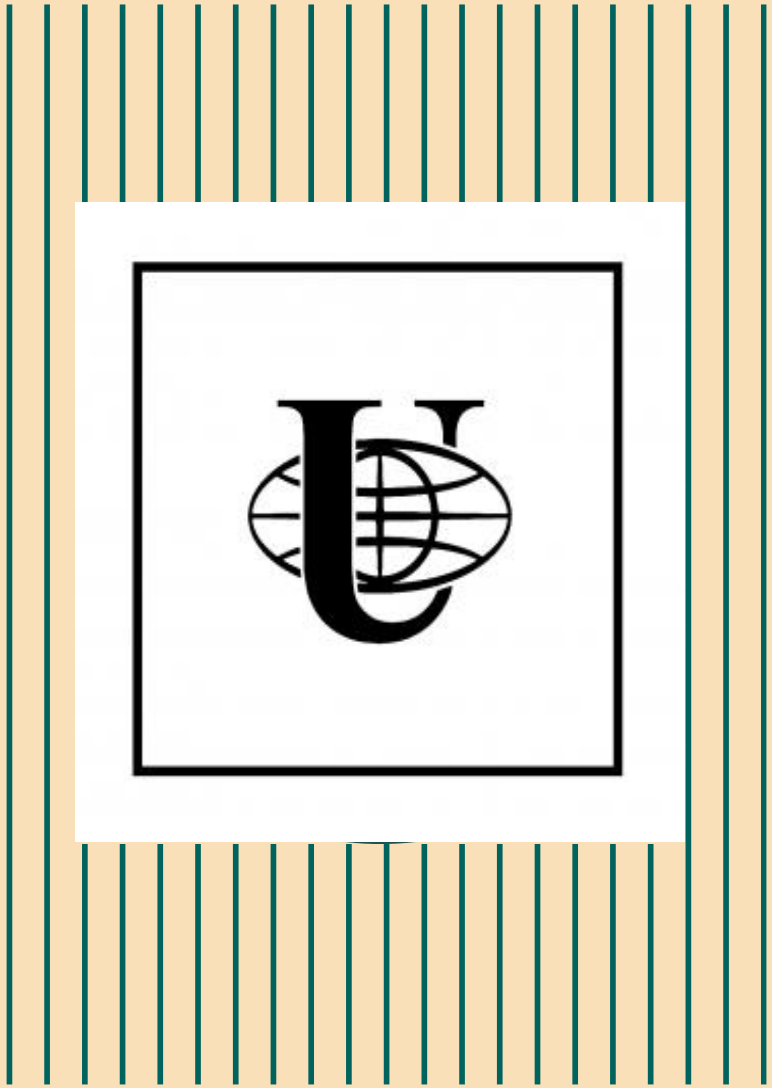
Внесение изменений в Vagrantfile

```
  end

  server.vm.provision "server dhcp",
                      type: "shell",
                      preserve_order: true,
                      path: "provision/server/dhcp.sh"
  end

server.vm.provision "server http",
                      type: "shell",
                      preserve_order: true,
                      path: "provision/server/http.sh"
  end
```

Итог работы



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

Спасибо за внимание!