Защита лабораторной работы №4

дисциплина: администрирование сетевых подсистем

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Группа: НПИбд-02-20

Постановка задачи

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

Установка НТТР-сервера

Package	Arch	Version	Repository	Size	
nstalling group/modu	:======= :le packages:				
nttpd	x86 64	2.4.53-7.el9	appstream	48	k
nttpd-manual	noarch	2.4.53-7.el9	appstream	2.2	М
nod_fcgid	x86 64	2.3.9-28.el9	appstream	74	k
nod_ssl	x86 64	1:2.4.53-7.el9	appstream	111	k
nstalling dependenci	es:				
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
nttpd-core	x86 64	2.4.53-7.el9	appstream	1.4	M
nttpd-filesystem	noarch	2.4.53-7.el9	appstream	15	k
nttpd-tools	x86 64	2.4.53-7.el9	appstream	82	k
rocky-logos-httpd	noarch	90.13-1.el9	appstream	24	k
nstalling weak deper	dencies:				
apr-util-openssl	x86 64	1.6.1-20.el9	appstream	15	k

Базовое конфигурирование HTTP-сервера

 Вносим изменения в настройки межсетевого экрана узла server, разрешив работу с http

[root@server.yassine.net ~]# firewall-cmd --list-services cockpit dhcpv6-client ssh [root@server.yassine.net ~]# firewall-cmd --get-services RH-Satellite-6 RH-Satellite-6-capsule amanda-client amanda-k5-client amgp amgps apcupsd audit bacula bacula-client bb bgp bitcoin bitcoin-rpc bitcoin-testnet b tcoin-testnet-rpc bittorrent-lsd ceph ceph-mon cfengine cockpit collectd condorcollector ctdb dhcp dhcpv6 dhcpv6-client distcc dns dns-over-tls docker-registry docker-swarm dropbox-lansync elasticsearch etcd-client etcd-server finger foren an foreman-proxy freeipa-4 freeipa-ldap freeipa-ldaps freeipa-replication freei a-trust ftp galera ganglia-client ganglia-master git grafana gre high-availabil ty http https imap imaps ipp ipp-client ipsec irc ircs iscsi-target isns jenking 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 emcache minidlna mongodb mosh mountd mgtt mgtt-tls ms-wbt mssgl murmur mysgl nbo netbios-ns nfs nfs3 nmea-0183 nrpe ntp nut openvpn ovirt-imageio ovirt-storaged onsole ovirt-vmconsole plex pmcd pmproxy pmwebapi pmwebapis pop3 pop3s postgreso l privoxy prometheus proxy-dhcp ptp pulseaudio puppetmaster quassel radius rdp edis redis-sentinel rpc-bind rquotad rsh rsyncd rtsp salt-master samba samba-cl: ent samba-dc sane sip sips slp smtp smtp-submission smtps snmp snmptrap spideroa

Базовое конфигурирование НТТР-сервера

```
success
[root@server.yassine.net ~]# systemctl enable httpd
[root@server.yassine.net ~]# systemctl start httpd
[root@server.yassine.net ~]#
TOUCESCIVEL, Yassine. Here is a yaccillect atal concept
[root@server.yassine.net ~]# tail -f /var/log/httpd/error log
[Mon Nov 28 10:56:03.059547 2022] [core:notice] [pid 3163:tid 3163] SELinux poli
cy enabled; httpd running as context system u:system r:httpd t:s0
[Mon Nov 28 10:56:03.063285 2022] [suexec:notice] [pid 3163:tid 3163] AH01232: s
µEXEC mechanism enabled (wrapper: /usr/sbin/suexec)
[Mon Nov 28 10:56:03.114557 2022] [lbmethod heartbeat:notice] [pid 3163:tid 3163
 AH02282: No slotmem from mod heartmonitor
[Mon Nov 28 10:56:03.147354 2022] [mpm event:notice] [pid 3163:tid 3163] AH00489
 Apache/2.4.53 (Rocky Linux) OpenSSL/3.0.1 mod fcgid/2.3.9 configured -- resumi
ng normal operations
[Mon Nov 28 10:56:03.147393 2022] [core:notice] [pid 3163:tid 3163] AH00094: Com
mand line: '/usr/sbin/httpd -D FOREGROUND'
```

Анализ работы HTTP-сервера

```
[root@server.yassine.net ~]# tail -f /var/log/httpd/access log
192.168.1.30 - - [28/Nov/2022:11:03:29 +0000] "GET / HTTP/1.1" 403 7620 "-" "Moz
illa/5.0 (X11; Linux x86 64; rv:102.0) Gecko/20100101 Firefox/102.0"
192.168.1.30 - - [28/Nov/2022:11:03:31 +0000] "GET /icons/poweredby.png HTTP/1.1
" 200 15443 "http://192.168.1.1/" "Mozilla/5.0 (X11; Linux x86 64; rv:102.0) Gec
ko/20100101 Firefox/102.0"
192.168.1.30 - - [28/Nov/2022:11:03:31 +0000] "GET /poweredby.png HTTP/1.1" 200
5714 "http://192.168.1.1/" "Mozilla/5.0 (X11; Linux x86 64; rv:102.0) Gecko/2010
0101 Firefox/102.0"
192.168.1.30 - - [28/Nov/2022:11:03:32 +0000] "GET /favicon.ico HTTP/1.1" 404 19
6 "http://192.168.1.1/" "Mozilla/5.0 (X11; Linux x86 64; rv:102.0) Gecko/2010010
1 Firefox/102.0"
```

Настройка виртуального хостинга для НТТР-сервера

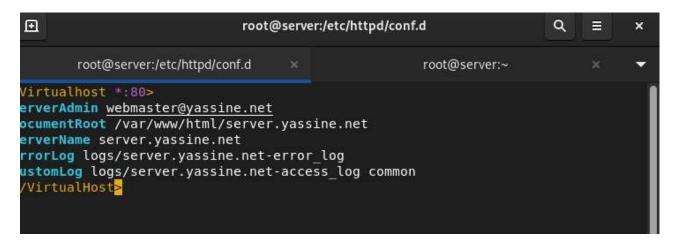
Вносим изменений в файлы описания DNS зон:

```
•
                                                                       Q
                                    root@server:~
              root@server:~
                                                      root@server:~
STTL 1D
        IN SOA @ server.yassine.net. (
                                         2022112700: serial
                                                    ; refresh
                                                    ; retry
                                                  ; expire
        NS
$ORIGIN yassine.net.
                        192.168.1.1
server
                        192.168.1.1
"/var/named/master/fz/yassine.net" 15L, 264B
                                                                14,18-35
```

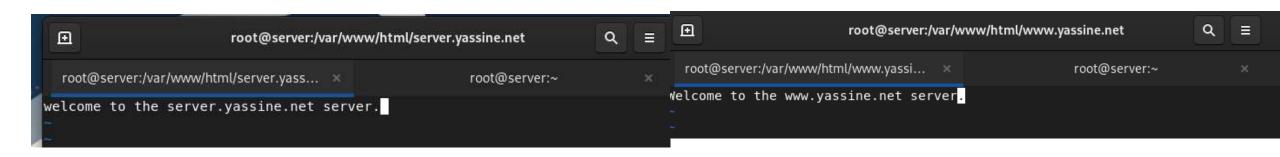
```
∄
                                    root@server:~
                                                                           root@server:~
                                                     root@server:~
STTL 1D
        IN SOA @ server.yassine.net. (
                                         2022112700
                                                         ; serial
                                                 ; refresh
                                                 ; retry
                                                 ; expire
                                                 ; minimum
       NS
                192.168.1.1
       PTR server yassine net.
SORIGIN 1.168.192.in-addr.arpa.
       PTR server.yassine.net.
       PTR ns.yassine.net.
       PTR dhcp.yassine.net.
       PTR www.yassine.net.
   INSERT --
                                                                15.23-29
```

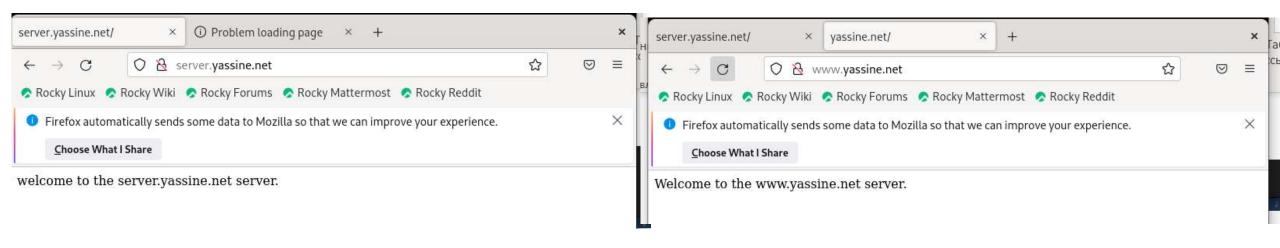
Настройка виртуального хостинга для HTTPсервера

• Создание файлов конфигурации

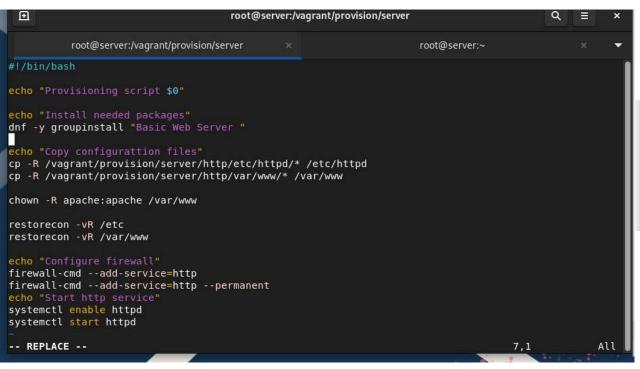


Настройка виртуального хостинга для HTTPсервера





Внесение изменений в настройки внутреннего окружения виртуальной машины



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

Вывод

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