# **Лабораторная работа 4** ACП

Чигладзе М.В.

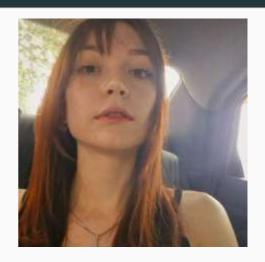
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Российский университет дружбы народов, Москва, Россия

**Информация** 

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Вводная часть

Цели

Целью данной работы является приобретение практических навыков по установке и базовому конфигурированию HTTP-сервера Apache

#### Актуальность

В условиях стремительного развития информационных технологий и широкого распространения веб-приложений, умение работать с вебсерверами становится одной из ключевых компетенций специалистов в области ИТ. Наиболее популярным и востребованным решением является Арасhe HTTP Server, который применяется для размещения сайтов, веб-сервисов и корпоративных приложений.

#### Материалы и методы

Материалы

Программное обеспечение:

Операционная система (Linux/Windows).

Apache HTTP Server (актуальная версия).

Текстовый редактор (nano, vim, Notepad++ или аналог).

Веб-браузер (Chrome, Firefox и др.) для проверки работы сервера.

Аппаратные средства:

Персональный компьютер или виртуальная машина с доступом к сети.

Выполнение лабораторной работы

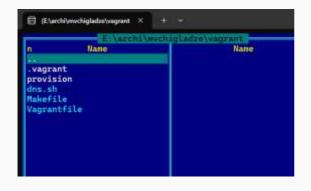


Рис. 1. Перешла в рабочий каталог



Рис. 2. Виртуальная машина сервер



Рис. 3. В режим суперпользователя

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Рис. 4. Установите репозиторий веб-сервера

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Рис. 5. Содержание конфигурационных файлов

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Рис. 6. Внесла изменения в настройки межсетевого экрана

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| root@server.mvchigladze.net etc]# systematl enable httpd | Created symlink '/etc/systemd/system/multi-user.target.wants/httpd.service' -> '/usr/lib/systemd/system/httpd.service'. | root@server.mvchigladze.net etc]# systematl start httpd | root@server.mvchigladze.net etc]# |

Рис. 7. В дополнительном терминале запустила расширенный лог сообщений

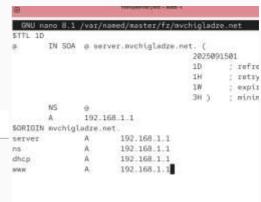
Рис 8. В первом терминале активировала сервер

#### Анализ работы HTTP-сервера

```
[rot@server.mvchigladze.net etc]# tail -f /var/log/httpd/error_log
r_log
Fri Sep 19 11:18:11.942293 2025] [suexec:notice] [pid 7074:ti
d 7074] AH01232: suEXEC mechanism enabled (wrapper: /usr/sbin/
suexec)
Fri Sep 19 11:18:12.055680 2025] [lbeethod_heartboat:notice]
[pid 7074:tid 7074] AH02282: No slatmom from mod_heartmonitor
[Fri Sep 19 11:18:12.078041 2025] [systemd:notice] [pid 7074:tid
7074] SELinox policy enabled; httpd running ms context myst
um_u:mystem_r:httpd_t:m0
[Fri Sep 19 11:18:12.0804400 2025] [mpm_event:notice] [pid 7074
mid 7074] AH00409: Apache/2.4.63 (Rocky Linux) OpenSSL/3.2.2
end_fcgid/2.3.9 configured -- remuning normal operations
[Fri Sep 10 11:18:12.080447 2025] [nore:notice] [pid 7074:tim
7074] AH000004: Command lines / wur/abin/httpd -0 F0000000000
```

## Рис. 9 На виртуальной маишне посмотрела лог сообщений

#### Анализ работы НТТР-сервера



[rootgserver.mychigladze.net etc]# systemctl stop named [rootgserver.mychigladze.net etc]# |

Рис. 11. Остановила работу сервера для внесения изменений

Рис. 12. Добавила запись для сервера

#### Конфигурирование DHCP-сервера

192.168.1 [rootsserver.mvchtgladze.net rz]# systemctl start named [rootsserver.mvchtgladze.net rz]#

Рис. 13. Перезапустила ДНСсервер

[root@server\_wvchigladze.net rz]# cd /etc/httpd/conf.d Frootsserver mychigladze.net conf.dl# touch server mychigladze net.conf. [rootsserver.mychigladze.net conf.d]# touch www.mychigladze.ne t.conf [rootsserver.mychigladze.net conf.d]# is autoindex.conf asl.conf figid.conf userdir conf manual\_conf. welcome.conf README www.mvchigladze.net.conf server avchigladze net conf [root@server.mychigladze.net conf.d]#

Рис. 14. В каталоге создала файл

#### Анализ работы DHCP-сервера



GNU mano 8.1 www.mvchigladze.net.comf

<VirtualHost \*:80>
ServerAdmin webmastergmvchigladze.net
DocumentRoot /var/www/html/www.mvchigladze.net
ServerName www.mvchigladze.net
ErrorLog logs/www.mvchigladze.net-error\_log
CustomLog logs/www.mvchigladze.net-access\_log

</VirtualHost>

Рис. 15. Открыла файл на редактирование и внесла изменения

Рис. 16. Открыла файл на редактирование и внесла содеражние

#### Анализ работы DHCP-сервера

[rootgoerver.evchigladre.net minf.d]# cd /ver/wew/html. [rootgoerver.evchigladre.net html]# eadir server.evchigladre.n et

[rootsmerver.exchigladze.net html]# ud server.exchigladze.net/ [rootsmerver.exchigladze.net server.exchigladze.net]# touch in das.html

[cootymerum:sechigladie.nut enrum:sechigladie.nut]# nuno lnd ex.html

[cootinerver.suchiglades.net aerver.suchtiglades.net]# cd [cootinerver.sechtiglades.net him]# societies.see,suchtiglades.net [cootinerver.sechtiglades.net]# net]# cd www.suchtiglades.net/ [cootinerver.suchtiglades.net]# www.suchtiglades.net]# touch (edex

[contenerver.mychiglastre.net www.mychigladin.net]# nano index.

[cootquerver:avchigladoe.nwt www.avchigladoe.nwt]# dat index.h

Nelcome to the ewa muchigladge net server;

[cootsperver.mychigladise.net www.mychigladise.net)# cd . [cootsperver.mychigladise.net %%mil# cd server.mychigladise.net/ [tootsperver.mychigladise.net server.mychigladise.net]# sat inde s.html

Relcome to the server exchigladre.net server. [rootswerver.suchigladre.net server.suchigladre.net]# mercame to the server mychiguade her server.

[root@server.mychigladze.net server.mychigladze.net]# chown -R
apache:apache /var/www

[root@server.mvchigladze.net server.mvchigladze.net]#

## Рис. 18. Перешла в каталог и создала тестовые страницы

Рис. 19. Скорректировала права доступа

#### Настройка обновления DNS-зоны

```
[rootsperver.svchigladze.met server.svchigladze.net]# restored on -vH /etc restored on -vH /ver/named restored -vH /ver/named -ver/named -ver/na
```

[root@server.mvchigladze.net server.mvchigladze.net]# systemct l restart httpd [root@server.mvchigladze.net server.mvchigladze.net]# |

Рис. 21. Восстановила контекст безопасности

Рис. 22. Перезапустила XTTПсервер

### Внесение изменений в настройки внутреннего окружения виртуальной

Problemered mailygladie out server'H or W yets/totastaint a vegoret/presidents/server/hitp/sto/https/conf. (U on: winning developing file operant often: /ets/fwtmm.nerf.do vagrant/powers labory serves /http://etu/https://doi/f.dJ/ Thy an chalp for once information Spootsessreet mechiatodes set sames \$4 pg -\$ /ets/horsessess#.Ar \* /vegcont/core/edizoree/en/inta/etc/fittal/corf.d/ Troutpurson subligiate set serverit in it /# /#in/https://www.ii Ji /vagnet/posytrost/server/http/etc/https/coff.W tal dealerCts "Available Appropriational Appropriation of the Appropriation of the Company of th Approximates conf. T. a. tac awarenthy "Yorganet /gravitation/prover/fitta/ets/http://conf.u ep. nemericle. /pagent/precional/server/interior/https/secf.or January control y cp: nvenetire /vegnet/presiditaryserver/mta/esc/trtes/sonf.il CHEADRE T & cp: compact to \_/vegtont/prestates/server/intorists/hetps/sonf. a /server.mydkialan.net.cofTT y op! messante 'Avegnet/presidencemen/mtareturistpa/cof.a Direct Learner Toronto. ca: swarefile //wageset/presiding/astwo/fritu/sto/bttps/comf.ir Junearth, part 5 y age: swarter the "Aveganet Assertance) server that a new Attendance is /welcoed:conff f.y or exercise /vegrost/markshover/wrapes/wrapes/betacks/soft.c James monthly Latine, each nearly 1 or Confession and the property of the server less of the confession o tigety, at manufact but flowed.... Constituences anticiplative out assessed to the four-box/total of the Participation of the Control of the

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### Рис. 22. Создала каталог для внесения изменений

INSTALLABORATE THE RESERVE OF THE PROPERTY OF Iroct@server.mychigladze.net serverl# zd /vegrant/provision/se inex/dns/ Ironteserver wychigladze.net desiw cp -R /var/named/\* /vagrant /provision/server/dos/war/named/ cp: overwrite '/vagrant/provision/server/dns/var/named/data/na med. run 7 y cp: overwrite '/vagrant/provision/server/dns/var/named/dynamic /managed-keys.bind.inl'? y cp: overwrite '/vagrant/provision/server/dns/var/named/dynamic /managed-keys.bind'7 y cp: overwrite '/vagrant/provision/server/dns/var/named/master/ re/192.168.1'7 w cp: overwrite '/wagrant/provision/server/dns/var/named/master/ fz/evchigladze.net? v cp: overwrite '/wagrant/provision/server/dns/var/named/named.c 47 V cp: overwrite '/vegrant/provision/server/dns/var/named/named.e moty'? w cp: overwrite '/wagrant/provision/server/dns/var/named/named.l ocalhost ? v cp: overwrite '/vagrant/provision/server/dns/var/named/named. cophack 7. y [root@server.evchigladze.net dns]#

## Рис. 23. Заменила конфигуарционные файлы

#### Настройка обновления DNS-зоны



Рис. 23. Создала исполняемый файл

```
perver.vm.provision "server http",
type: "shall",
preserve ender: true,
path: "prevision/berver/http.sh"
```

Рис. 24. Добавила в файл конфигурации запись

### Результаты

#### Результаты

В ходе выполнения лабораторной работы были приобретены практические навыки по установке и базовому конфигурированию HTTP-cepвepa Apache.