Лабораторная работа 3 Администрирование сетевых подсистем

Чигладзе М.В.

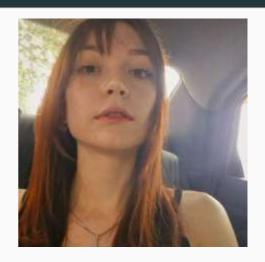
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Российский университет дружбы народов, Москва, Россия

Информация

Докладчик

- Чигладзе Майя Владиславовна
- студент РУДН направления Прикладная информатика
- заместитель ОСК профсоюза РУДН
- волонтер университета и Москвы
- [1132239399@pfur.ru]
- https://github.com/LaMeru



Вводная часть

Цели

Целью данной работы является приобретение практических навыков по установке и конфигурированию DHCP-сервера.

Актуальность

DHCP - автоматизация IP-конфигурации устройств в сети, упрощение администрирования, предотвращение конфликтов адресов.

Материалы и методы

Методы:

- Установка DHCP-сервера.
- Редактирование конфигурации (диапазон IP, маска, шлюз, DNS).
- Настройка опций (время аренды, суффикс, NTP).
- Статические назначения (резервирование по МАС).
- Тестирование (получение IP клиентами).
- Анализ логов.

Материалы:

- Компьютер с ОС (Linux/Windows).
- ПО DHCP-сервера (isc-dhcp-server,

Windows DHCP Server).

- Текстовый редактор.
- Клиентские устройства.
- Сетевые кабели.
- Документация по DHCP.

Выполнение лабораторной работы

Установка DHCP-сервера



Рис. 1. Переход в режим суперпользователя и установка dhcp.

```
[nvchiqladze@server:nvchiqladze.net ~]$ sudo ~i
[sudo] password for nvchiqladze!
[root@server.nvchiqladze.net ~]# cp /etc/kea/koa-dhcp4.conf /etc/kea
/kea-dhcp4.conf_$(date -I)
[root@server.nvchiqladze.net ~]#
```

Рис. 3. Копирование файла примера конфигурации DHCP и изменение его названия.

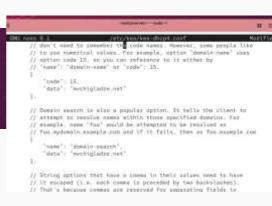


Рис. 4. Открытие файла /etc/dhcp/dhcpd.conf на редактирование.

```
"Dhcp4": [
    "interfaces-config": [
        "interfaces": [eth1 ]
},

// "control-socket": [
```

[rectmosrver.morkigladin.est -]# kea-dhopd -t /ets/kea/kea-shop4.conf

2025-85-15 16:53:22.257 INF DATE [New-disp4.heats/9598.146230458014588] MOSTS_BACKERON_MEGISTERS 5 the filluming host backerd tubes are evallable; manut continued

2025-95-15 16 12:27 JB7 BARN (see-docpt dispers/9509 (402284385)4368) DKCPSRV,MT_DISABLES.GU EVE_CONTROL disabiling disp cause control when multi-threading is enabled.

2025-09-15 10:33:22.2E7 RABN [Res drop4.drop4/0509 140220030114508] DMOM4 PERSONATIONS LOOK/ P.CIBST_CHARLED Malts-threading is enabled and host reservations lookup is always performed First.

2015-09-15 15:39:22.287 DATO [Ass-dhips.dhipsuy/9500.LAR220430514965] DHCPSOV.CFDHOLAER.SUB NETA or new makest has been added in configuration; IOZ-188.1.8/24 with parama; valid-lifetime ~7200

2025-00-LD 16-33:23.387 DNFD [hea-doupt.doupt.ph.gezz/9500_1402204305]4368] DNCPSBY_CFUNGR_SCCSET_ TYPE_SELECT value_sector type raw

2025-09-15 10:13:22.207 1970 [Non-dhop4.dhopsyy/0980.148228430514308] DHOPSW_CPOMOR_ADD_IFA
GE listering on interface with

2025-09-15 16:33:22 207 DMTD [hom-duspet.duspety/9500.148230430534305] DMCPSBy_CFOMON_SDCMET, TYPE_DMFMLT "dhep-nacket-type" and specified , unless default secket type raw

The state of each distance of the

Рис. 5. Настройка привязки

Рис. 6. Проверяем правильность

```
[sustance of models] adds not "JP systems! "system discuss reland systems of models are discussed in a system of models are discussed in a system of models are discussed by the system of the system
```

Рис. 7. Перезагрузка конфигурации Рис 8. Добавление записи для DHCP-сервера в конце файла прямой DNS-зоны

```
[rooteserver.mychigladze.net -]# systemctl restart named [rooteserver.mychigladze.net -]# |
```

Descriptions are fighers over 1/4 ping than excitations, see ping; dies, methyladis over 1 kme as service not known.
[Cootserver amobigladis out 1/8 amos (etc.framolo.com)
[Cootserver amobigladis out 1/8 amos (account for the first transformation and fighers)
[Cootserver amobigladis out 1/8 amos (account for the first transformation for account for the first formation of end for account for the first formation of end for account for the first formation for partial formation for account for the first formation and formation for account for the first formation and formation for 1/8 ping than account for the first formation and formation for 1/8 ping than account for account for the first formation and formation for 1/8 ping than account formation and

All branching dates about the control of the contro

FDW dtcp.mittqladpe.set (DW.168.1.1) 50(64) bytes of data.

Рис. 9 Перезапускаем

Рис. 10 Проверяем

Allegania and with province their agreement. contract shipped all hair this con-E-30 PR-Saturt this is DR-Saturt title in research after all a manning of their amounts in Cities new 1981 new 1988 amount temper month sensetuned bloods newspictured have grade #Underson become anchogs to buy bytesty bitratic pitratic-ran bitratic-bettern bitratic a professional fact capit capit experience made non efficient advantage approximation but to explain and least a contract confliction arrange and was not extended that which E State S. of Early Africa, the discount of the country of the State o engin, elanticement etal oltant etal-perint facilità l'Inges Tereno Ricene procontactions frontactions from a continuous frontaction frontaction from the police compileconnect att ment profess are bisk-portlantilly with heigh being unon tour team I now has been been been been too took been been been bother bearing administration and kinggy Aparend byggs keinti hala sai kaba satangyay habis comtat atam habaserver have mercoffee receiped have probable assessed against him subspect age behiler tide schooling mode take acting baletet spirits tradicia substat with Unifer Library Fig. Contributioners They Dank State Charles Charles Charles In order persons a strength which is a constant and provided and early and of the or stear Aven, and natula seed for spend earl agency within or betalco-dishbaret v FLES layer try not operately entropy and the transpose party attranger-works and the as paid popular posedupt posedupts and pight puriferent salvary assertions are spectar, group-they publish gallestern ptp delinearity departmenter quantity rather dia codic aperica's coold you bind squared not report step call merces basks bank sist new settings tirring collection via sign allowed rig sets some-sawington merts sempets true sempress apidarnal Tamages sportly yers small sade sale status correct attent expensive week large attempted a consensu about plant collections repr p out systeming monothing-upl systeming rathly haveragy valuation system analog till sole between the climbs too too such teams of sold two too too some postal. entrey very expectation when this when this element on distances on distances; coupy, Fact we discussing the self-investy-siz and each fitte seas colors office p officed was found again before assert assert assert land became assert a month of control with normal on digress, benefitied

Рис. 11. Внесение изменений в настройки межсетевого экрана узла server, разрешив работу с DHCP.

[rooteserver.exchigladze.not -]# zestorecon -vR /otc restorecon -vH /var/named restorecon -vH /var/lib/kms/ [rooteserver.exchicladze.not -]#

Рис. 12. Восстановление контекста безопасности в SELinux.

d core #011#017#udule 1000m.no.0 from row 1000ac-1.0 11-0.010.and 640017#udule tto from the Atherball IV. 8-3 will with D44602Person likeli on 6 from the likeli-1.6.29-1. mismilthooks turfft as 8 from ope (1984) 3.4.4.5 aCM a66 64802Mobile Vibertland of from the explaint 1, 23 0-2 olds and General State trace of Horsel 13765 setting dueses #16/ n/w (n/w + d+2)#913#1 #16000000000#1#1### n/w (n/w + d+9)#813#3 #18000000000055 NOW - \$481490.387 949989999999470348 A/A (1/4 - \$491491.384 94998771463513568 start race of thosed 17/61 #812#8 @x8888771eb258c4bf saugat1 fitte up 6 + 8x1854b61#813#1 specificate als into a duringing biconspeciation at 1000 a districtor and So you can't a subjective aucoespecialistic by can't subjective aucoespecialist /a + 8u8) WEGINE 8u800077Lotification start thread (like as 6 + 8u90cm) WEGINT 8u8000 the __rimal ()the on d = 0x1855bc)#0124025back track of throad 13764 #00240 Sw000 SERBATETHE A/A (W/A + SHELERITHET SHERRESPROSPECALETER A/A INCA + SHELERITHEA SHERRESPECALETER A N/A (N/A - Budimetizes Businesennosentizaka h/a (n/a - Budimetizaka businesennosennosen all (like as 6 - 0:1050c:001200125tack trace of throad 13702:001200 0:0000771sh260 If fills as 6 : delignate entire descriptions of the color of the color of the colors n/o (n/o - busingting - discompandensinity n/o (n/o - discomplies - discomplication) (libc.sc.6 - 9v2s)c9)A01391 0xmmmm00004244s s/s (x/s + 0x0)A01301F object birery

No. 15, 17 M. M. server section[11] accepts recommender. 11MA-B service: Reservated

Рис. 13. Запуск в дополнительном терминале мониторинга происходящих в системе процессов в реальном времени.

restorecon -v# /var/named restorecon -v# /var/lih/kea/ [rootsparyer.avchigladze.net -]# systemctl start kea-dhcp4.service [rootsparyer.avchigladze.net -]#

> Рис. 14. Запуск в основном рабочем терминале DHCPсервера.

Анализ работы DHCP-сервера

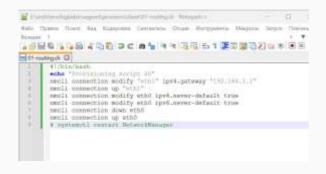


Рис. 15. Создаем файл



Рис. 16. Подключаем скрипт

Анализ работы DHCP-сервера

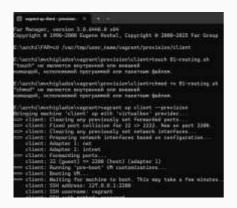


Рис. 17. Фиксируем внесенные изменения

Анализ работы DHCP-сервера

```
[root@server.mvchigladze.net -]# cat /var/lib/kea/kea-leases4.csv
address,hwaddr,client_id,valid_lifetime.expire,subnet_id,fqdn_fwd,fqdn_rev,hostname.state,use
r_context,pool_id
```

Рис. 20. Смотрим список выданных адресов

Рис. 21. Создаем ключ

Рис. 22. Файл апдейтер

```
[root@server.mvchigladze.net ~]# chown -R named:named /etc/named/keys
[root@server.mvchigladze.net ~]#

include "/etc/named.rfc1912.zones";
include "/etc/named.root.key";
include "/etc/named/mvchigladze.net";
include "/etc/named/keys/dhcp_updater.key";
```

Рис. 22. Поправим права доступа

Рис. 23. Подключим ключ в файле /etc/named.conf

```
17. Previded by Bed Het carried-communities and high
// INC SING count our configuration for young recommended by
// WT 1912 metter 4.1 : Insalkase Tide and abless overs
27 and Person Ottobio, bett orghinal/reledant
NATIONAL PROPERTY. IN C. PARKET.
// See /usz/stups/mo/kinf/semis/ for exemis need say/hacration files.
// Note: pepty: poner-peakin pen; lighter in default.
77 SF private ranges aloudd by Provented; add
I/ Stashin empty same "." (eto options
tase "eveltiglisess, set" He t
        from earlier;
       Pile 'maring/Estandinglates out';
        academic politics: I
               provided and Appendix of Lincoln Commissions and A DACIS.
seen "1,100,100 to with seen It |
        from market:
        file 'esstences/182.168.1"
        undate-politor (
               Grant SHCF ARGATER WITHOUT ".1.168.100.10-sept.stm PTR DWITE
```

Рис. 23. Поправим права доступа

```
root@server.mychigladze.net =]# named-checkconf
root@server.mychigladze.net =]# |
```

Рис. 24. Подключим ключ в файле /etc/named.conf

```
[root@server.mvchigladze.net ~]# systemctl restart named
[root@server.mvchigladze.net ~]# touch /etc/kea/tsig-keys.json
```

```
[root@server.mvchigladze.net ~]# named-checkconf
[root@server.mvchigladze.net ~]# systemctl restart named
[root@server.mvchigladze.net ~]#
```

Рис. 22. Сделаем проверку конфигурационного файла: named-checkconf

Рис. 23. Перезапустите DNScepвep: systemctl restart named



Рис. 24. Сформируем ключ для Kea. Файл ключа назовём /etc/kea/tsig-keys.json: touch /etc/kea/tsig-keys.json Рис. 25. Перенесём ключ на сервер Kea DHCP и перепишем его в формате json

[root@server.mvchigladze.net ~]# chown kea:kea /etc/kea/tsig-keys.json [root@server.mvchigladze.net ~]# chmod 640 /etc/kea/tsig-keys.json [root@server.mvchigladze.net ~]#

Рис. 25. Сменим владельца: chown kea:kea /etc/kea/tsig-keys.json

Рис. 26. Поправим права доступа: chmod 640 /etc/kea/tsigkeys.json

```
Frontiscenser sychigitalse rest "18 shoen kencken /etc/ken/ken-shop-sides conf
[root@server.weihigLattr.rert. -19 kear-thop-ddes -1, /ets/kea/kea-thos-this.comf
2825-89-15 17:42:86.786 29F0 Twee-dtcp-ddvs_dct1/18611_1000902816612961 DCTL CONFIG CHECK CD
MPLETE server has completed configuration whech: listening on 127.0.8.1. part 53001, using UD
F. result: gurrans(V), text=Configuration check accessful.
[rootsmarver.evshigladre.net -]# systematl mobile --noe ken-dhop-diss.negvice
Created symblish "/etc/systems/mystems/mysti-user.turget.warsts/hea-direc-ddrm.service" → "/use/1
lb/systemd/system/kes-disp-done.service
(rootspayer merkidlating net - W systemet) status was oben dien service
· Kes-duco-ddisc.service - Kes DHCP-SDMS Server
     Loaded: loaded (/usz/lib/system/kes-drop-ddro, service: emabled: preset ####
     Active: active (running) since flow 2025-89-15 17:42:42 UTC) 18v ago
 Immeration: v981.NAv8u807A458989962v982184845
       Sides: man: hea-chicp-drive(ff)
   Hain FID: 19925 (ken-dhca-ddow)
      Tasks: B (11011 12000)
     Messry: I.RW (pess: D.RM)
     Direct: /system.slice/see-dtop-stm.service
             14 (86%) many shifty can alway their sides of the process of the other cases. The
Sep 15 17:40:40 server machingladze met systema[1]: Started ten-disp-ddms cervice - ten 2409-
Sep 15 17:42:42 server machigladge set kea-dbcp-ddns(18825): 2025-09-15 17:42:42.600 INFO
Sep 15 17:42:43 server.machigladze.met ken-dhop-ddns/18825): INFO COMMAND ACCOPTON START Set
Sep 15 17:42:42 server sychigladge set yes drop cons(16825): DMFD SCTL CONFIG COMPLETE serv
Sep 15 17:42 42 server exchiplance set kee-dhop-date(18825); DMFO 046F DDMS STARTED Kee DMS
[4]+ Stopped
                              egatement, status ken-dhep-ddys sarvice
[vootsoesver.evchigladse.net =]# -
```

Рис. 27. Настройка происходит в файле /etc/kea/kea-dhcp-ddns.conf

Рис. 28. Изменим владельца файла: chown kea:kea /etc/kea/kea-dhcp-ddns.conf

```
Proofsessiver suchigisates not "18 chase keaches /etc/kes/kes-shop-ados.conf
[rootsperver workin] after out -12 has alone-don -1 /etc/ken/ken dom-don conf.
3805-89-15 17:42:80 780 3NFO [kee-thop-days dct1/18611 100090001661296] DCTL CONFID CHECK CD
MPLETE server has completed configuration check: listening on 127.0.8.1. part 53801, using UD
F. result: gurcase(@), text-Configuration check approachel.
Importantiver syntigladie net -1# systemati enable -- noe kno-dkon-dkon nervice
Created syelink '/ets/eystemd/system/multi-user.turget.warts/kea-dhrp-ddnm.service' - '/usr/1
Thysysteed/system/kes-disp-ddms.service
[rootguerver.evokiglader.net -]# systemet1 status wes-dhep-ddms.service
# Kes-ducp-ddiss.service - Kes DMCP-35MS Server
          Loaded: loaded (/usz/lib/system/kystem/kes-disp-ddro.service: enabled: preset ####
          Active: active (running) since flor 2025-00-15 17:42:42 UTC/ 10s ago
   Sides: war kea-chicp-drive(8)
      Hain FID: 19925 (kew-dhca-ddow)
            Teaker B (Tieter territo)
          Messary: I.RW (peak: D.RM)
           CGroun: /system_allcs/ses_dtop-stru_servics
                            LEGGE AND AND AND AND ADDRESS OF THE PERSON OF THE AND ADDRESS OF THE PERSON OF THE PE
Sep 15 17:40:40 server.muthiglatie.met systems[1]: Started keu-dhop-dass.cervice - Ken 2409-
Sep 15 17:42:42 server morhigladze set kou-dbop-ddns/188251: 2025-09-15 17:42:42.680 INFO
Sep 15 17:42 40 server mychigladge met ken-shop-mons/18825); INFO COMMAND ACCOPTON START Se
Sep 15 17:42:42 server evolvipladze met New-dhop-edns(16825); DNFO BCTL CONFID COMPLETE serv
Sep 15 17:42-42 server.evchigladze.net kee-dhop-dans(18825): DMFD 046F-00N5 STARTED Kes DMC
[4]+ Stopped
                                                                 eastweet! status ken-dlep-ddm.marrice
 [ youtsuesver .evchigladse.net ~ ]# -
```

Рис. 29. Проверим файл на наличие возможных синтаксических ошибок: kea-dhcp-ddns -t /etc/kea/kea-dhcp-ddns.conf

Рис. 30.Запустим службу ddns: systemctl enable --now kea-dhcp-ddns.service

```
Proofsessiver such/glastes set "I# those keather /etc/kea/hea-shop-sides conf-
[rootsperver_workigLadge_cot. -]# kea-disp-ddes -t /ets/kep/kea-disp-ddes_conf
2805-89-15 17:42:88.788 2800 Two-dtcp-ddvs.dct1/18611 1390992010012961 DCTL CONTIO CHECK CO
MPLETE server has completed configuration whech: listening on 127.0.8.1. part 53001, using UD
F. result: garcass(@), text-Configuration check appropriate
                                                                                                 DNU mano 8.1
                                                                                                                                              /eto/kee/kee-dhob4.com
[cootsmarver.evshigladre.net -]# systemotl mobile --noe ken-shop-data.negvice
Created symbly /etc/systems/system/multi-user.turget.warts/hea-dtrp-ddmu.service - /use/1
Threvetend/eveten/ken-disp-ddos.service
[rootsperver.evokigladire.net -W systemet] status was obeposite, service
                                                                                               Dhop4
# Kas-durp-ddes service - Kas DACP-SSMS Server
    Loaded: loaded (/usr/lib/systems/system/kes disp ddro.service; emakled preset
                                                                                                          interfaces":
    Active: active crumsing) stoce flow 2025-09-15 17:42:42 UTC: 18s ago
 Invariation: v981.8446.867.845898996.3v982184845.
      Social man key-other-drive (8)
  Hain FID: 19925 (kee-chcs-ddox)
     Testo: B (1100): 1890)
    Mesogy: I.RW (beds: B.RW)
                                                                                                                    enable-updates": true
       CPH 2644
    COroug: /system_slice/sec-dtop-dtm.service
                                                                                                          ddms-cualifying-auffix' "evokiglades.net".
                                                                                                         "ddes-override-client-update": true,
Sep 15 17:42:42 server muchinglistic met systems[1]: Started keu-dhop-ddox cervice - Kea 2409
Sep 15 17:42:42 server.mxthigladge.net kea-dbcp-ddns[18825]: 2025-09-15 17:42:42 680 INFO
Sen 15 17:42:40 server mychigladze met ken-dhop-mons/188251: INFO COMMAND ACCOPTON START S
                                                                                                       control-spoket :-
Sep 15 17:42:42 server sychigladze set kes dhep-cons[16825]; DNFD SCTL CONFIG COMPLETE ser
Sep 15 17:47-47 servey.nvchiplatze.net koe-dhop-dahu(18825); DNFO DADF DDNS STARTED Key DNS
                                                                                                          "socket type": "anta".
                                                                                                            "socket-name": "kes4-ctrl-socket"
[4]+ Stopped
                             egatement, status ken-dhep-data sarrice
Proofameriver eaching ladge net - 18 -
```

Рис. 31. Проверим статус работы службы: systemctl status kea-dhcp-ddns.service

Рис. 32.Внесите изменения в конфигурационный файл /etc/kea/kea-dhcp4.conf,

```
Displacement method age, set 1 $ 644 (Regs) 14 /kts/844/444 (Regs) conf
  2605-66-15 17:46:30-000 TMTO (hear-shape herrar/1903) 1308/5463867880 WSPS BADROOD HUISTEN
3625-69-15 27:46:35:603 WARRE [hos-shop4.chrperv/18013.110683453867WRI] DROPSR HT 155AB.EL II
INUE CONTROL PRINTED IN PROP SHEET CONTROL WHEN AUSTI-EXTRACTION IN ARRESTS.
2825-09-15 17:40 35.00 MARK (Leg-min-4-280)-4/18/03 12/04/18/03 Rept 4/52/04/10/05 10/08
SM COST PRESENT World - recording to enabled and boat constructions language to slawer partyrised
  1835-88-15 17:40:38-601 78FO [hea-shop4:Rope(v/15013 19963463867888] DMCPSR (TURKS MEP III)
  SMCH a rea named has been adout to configuration. Bit both 1.0/24 with parama valid-Diffetia
  THE R. P. LEWIS CO., LANSING MANUAL PROPERTY AND ADDRESS OF THE PROPERTY OF TH
  PARK BELLET LANGE COURSE Type file
  THE OWNER AND ADDRESS OF THE PARTY OF THE PA
  820 limitester on notectace etc.
  April 46 to 17 to 16 his 1870 (her dough display both Liver Hard recording to the property of the control of th
    Transference modification out "IF spreamed contact has object service
  Fronting core and infinite out -18 applies $1 status has about applies
  when then I accessed to her DCDA Server
                          Loaded Insuled Char/Ath/spinest/spines/has Start nervice; madded; ground
                          Action: setting (newstap) since the 2005-69-15 17:46-37:175; to sup
       Descript: skit/2rott#colores-most-drarphat
                                   Donot han beauthondyffy
                Auto 700 15342 Charlottepic
                            Santa F. Charles School
                          Heropy: 2.49 (seek: 6.96)
                                 CPU: Abox
                          Circus: /urton tites/tax-flept assistes
  then 15 15 after convey the trade over the convey trade to the convey to
```

Рис. 35. Проверим файл на наличие возможных синтаксических ошибок: kea-dhcp4 -t /etc/kea/kea-dhcp4 -t opnf

Рис. 36.Перезапустите DHCPcepвep: systemctl restart keadhcp4.service

```
Exceleration method and the search and the sense of the s
  2625-69-15 17:46:36-050 TMTO (hea-chup4 harts/19333 1300/145260960) MISSS BADGNOS HILLIPES
ES the following boot backend tupes are svalletia: myest contensed
  3625-89-15 17:46:36.803 8680 (has shoot chapery/18013 1906046380/WHI DECPSIO HT STABLES II
  BRUE CONTROL PRINTED IN STORY COMMENT CONTROL WHEN AUSTI-ETTRAFFING IN ANABYSIS
  2825-09-13 17:46:35.000 8489 (ker-may4-recp4/1903 1009040367960) here ASSENATIONS 1009
  50 CDST BMR ER Built - requesting to enabled and boar consequations leading to views partyrised
  1875 WHITE AND AN AREA THE THEORY OF THE PROPERTY AND A TRANSPORT OF THE PROPERTY OF THE PROPE
  While a con makest has been adout to specialization; this body a first arrang, valid Diverte-
  DESCRIPTION OF A CONTRACT OF THE PROPERTY OF T
      PARK BELLET LANGE COURT TYPE FOR
    THE OWNER AND ADDRESS OF THE PARTY OF THE PA
  ACC limitating on instactane with
  2010-09-15-17-45-19-65-19-65-19-76 [hear-dough-disputer/18114-19-66-28-7800] DOCTOR (FIRST MILE)
      Timetonirous madrigladus out "IF springell restait has displant service
    [tooldnesses weeksplader.col - [# spetacet] states has aloud assolve
    · has then I arreits . Ker BEFVI Server
                           Loaded: Insaled Court http://princet/agetes/far direct service making group -
                             Artifact setting (topology place they 2005-89-21 17:80-27:277) to see
        Transport to a significant participation of the property of
                                       Deport But her offendation
                  State 900: 19342 Chan-Sheed?
                                   Spake F. Classer Spinsty.
                             Heropy: 2.6H (peak: 0.56)
                                           CPU: Albert
                             Girosc /uprton itten/eas-mept assisted
```

Рис. 37. Проверим статус: systemctl status kea-dhcp4.service

TO IT AN AT ACCOUNT DATABASE OF THE PROPERTY WAS AS IN 15 AS AT THE THEM.

[morthighalwage][red.morthighade.pert_][f.we]]; convertion then still Convention [width Seasonship] describated (D.-bus active path: /www.franchshipp) Mortanolthouses/Active/Convention/N] Connection second-fully activened (D.-bus active path: /min/franchshipp/Mortanothus negor/Active/Convention/N] [morthighadwage][seas.morthighadra.pert_][]

Рис. 38.На машине client переполучите адрес: nmcli connection down eth1 nmcli connection up eth1

Анализ работы DHCP-сервера после настройки обновления DNS-зоны

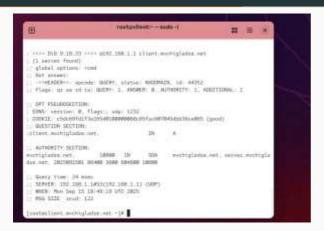


Рис. 43. Анализ работы DHCPсервера после настройки обновления DNS-зоны

Внесение изменений в настройки внутреннего окружения виртуальной

```
[motaserver.avchigladze.net fz]# is

withigladze.net

[rootaserver.avchigladze.net fz]# cd /vagrant/provision/server

[rootaserver.avchigladze.net server]# midir -p /vagrant/provision/server/dhcp/etc/kea

[rootaserver.avchigladze.net server]# cp -R /etc/kea/* /vagrant/provision/server/dhcp/etc/kea

/

(rootaserver.avchigladze.net server]# []
```

```
[root@server.mvchigladze.net ~]# cp ~R /etc/nsmed/* /vagrant
/provision/server/dns/etc/named/
cp: overwrite '/vagrant/provision/server/dns/etc/named/mvchi
gladze.net'7 y
[root@server.mvchigladze.net ~]# y
bash: y: command not found...
[root@server.mvchigladze.net ~]# cd /vagrant/provision/server
r
[root@server.mvchigladze.net server]# touch dhcp.sh
[root@server.mvchigladze.net server]# chend +x dhcp.sh
[root@server.mvchigladze.net server]# #
```

Рис. 44. На виртуальной машине server перейдите в каталог для внесения изменений

Рис 45. Замените конфигурационные файлы DNS-сервера:

Внесение изменений в настройки внутреннего окружения виртуальной

```
[root@server.mvchigladze.net -]# cp -R /etc/nsmed/* /vagrant
/provision/server/dns/etc/named/
cp: overwrite '/vagrant/provision/server/dns/etc/named/mvchi
gladze.net'? y
[root@server.mvchigladze.net -]# y
bash: y: command not found...
[root@server.mvchigladze.net -]# cd /vagrant/provision/serve
t
[root@server.mvchigladze.net server]# touch dhcp.sh
[root@server.mvchigladze.net server]# chend +x dhcp.sh
[root@server.mvchigladze.net server]# |
```

```
DMU name HV1
                            chem sh
echo "Provisioning script 50"
echo "Install needed packages"
dof -v install hos
echo "Copy configuration files"
cp -R /vagrant/provision/server/dhcp/etc/kea/* /etc/kea/
echo "Fis permissions"
choen -# keg:keg /etc/keg
eheod 640 /etc/kea/tsig-keys.ison
restorecon -vR /etc
restorecon -v8 /ver/(th/kes
echo "Cuefigure firewall"
firewall-ced --add-service chop-
Firewell-ced --add-service chop --permanent
echo "Start dhopd service"
systematl -- system dasson reload
systematl enable -- now ken-dhap4.service
systematl enable -- now kea-chap-ddns.service
```

Puc. 46. В каталоге /vagrant/provision/server создайте исполняемый файл dhcp.sh

Внесение изменений в настройки внутреннего окружения виртуальной



Рис. 48. Для отработки созданного скрипта во время загрузки виртуальной машины server в конфигурационном файле

Результаты

Результаты

В ходе выполнения лабораторной работы были приобретены практические навыки по установке и конфигурированию DHCP-сервера.