Lab 0.2. Подготовка стенда Linux.

Подготовка стенда в случае Linux.

Внимание, адресный диапазон 192.168.0.0/24 показан в качестве примера. Если ваша сеть имеет иной диапазон, вам потребуется два статических адреса: для хоста и ВМ с FreeIPA.

На хостовую машину установить ОС, в данном примере **Fedora 39 Workstation**

Установить пакеты:

sudo dnf -y install qemu libvirt

sudo systemctl start libvirtd && sudo systemctl enable libvirtd

sudo dnf -y install libguestfs-tools virt-install bridge-utils

Настроить сетевой мост

sudo brctl show

nmcli con add type bridge con-name br0 ifname br0

nmcli con mod br0 ipv4.addresses 192.168.0.20/24 ipv4.gateway 192.168.0.1 ipv4.dns 192.168.0.1 ipv4.method manual

nmcli con up br0

Добавить пользователя в группы:

sudo useradd -aG kvm,libvirt $USER

Перезагрузить систему.
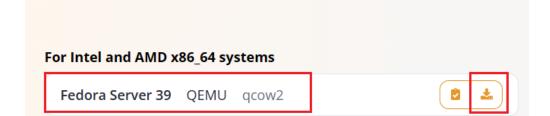
sudo reboot

Создать опциональную ВМ

Для установки ВМ можно загрузить готовый образ с https://fedoraproject.org/server/download

Download Fedora Server 39

We're so glad you've decided to give Fedora Server a try. We know you'll love it.

RELEASE DATE: **Tuesday, November 7, 2023**

📄 Documentation   📄 Release Notes   📄 Community Support

For Intel and AMD x86_64 systems

Fedora Server 39   QEMU   qcow2

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Поместить образ в пул хранилища:

sudo cp ~/Downloads/Fedora-Server-KVM-39-1.5.x86_64.qcow2 /var/lib/libvirt/images

Выполнить импорт виртуальной машины:

virt-install --connect qemu:///system --name dc --disk path=/var/lib/libvirt/images/Fedora-Server-KVM-39-1.5.x86_64.qcow2,cache=none --import --vcpus 4 --memory 4096 --video virtio --os-variant=fedora-unknown -w bridge=br0

Открыть консоль виртуальной машины в Virtual Manager и произвести первоначальную настройку

```
================================================================================
================================================================================

1) [x] Language settings              2) [x] Time settings
       (English (United States))             (Etc/UTC timezone)
3) [x] Network configuration          4) [x] Root password
       (Connecting...)                       (Root account is disabled)
5) [ ] User creation
       (No user will be created)


Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]:
5
================================================================================
================================================================================
User creation

1) [ ] Create user

Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]:
1
================================================================================
================================================================================
User creation

1) [x] Create user
2) Full name
3) User name
4) [x] Use password
5) Password
6) [x] Administrator
7) Groups
   wheel


Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]:
```

Нажать 5 (Для создания пользователей)

Нажать 1 (Приступить к созданию пользователя)

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Нажать 2 (Для ввода полного имени)

Ввести полное имя: user1

Нажать 3 (Для ввода имени учетной записи)

Ввести имя входа: user1

```
User creation

1) [x] Create user
2) Full name
   user1
3) User name
   user1
4) [x] Use password
5) Password
6) [x] Administrator
7) Groups
   wheel

Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]:
3
================================================================================
================================================================================
Enter a new value for 'User name' and press ENTER:
user1
================================================================================
================================================================================
User creation

1) [x] Create user
2) Full name
   user1
3) User name
   user1
4) [x] Use password
5) Password
6) [x] Administrator
7) Groups
   wheel


Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]:
5
```

Для задания пароля ввести 5 и нажать <Enter> как показано ниже:

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```
5
================================================================================
================================================================================

Password:
Password (confirm):
================================================================================
================================================================================
Question

The password you have provided is weak: The password fails the dictionary check
- it is based on a dictionary word
Would you like to use it anyway?


Please respond 'yes' or 'no':
yes
================================================================================
================================================================================

User creation

1) [x] Create user
2) Full name
   user1
3) User name
   user1
4) [x] Use password
5) Password
   Password set.
6) [x] Administrator
7) Groups
   wheel

Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]:
q
================================================================================
================================================================================
Question

          Are you sure you want to quit the configuration process?
          You might end up with unusable system if you do.


Please respond 'yes' or 'no':
yes_
```

Ввести пароль, например password

Повторным вводом подтвердить пароль

Набрать **yes** для подтверждения намерения использовать слабый пароль

Нажать **q** для выхода из режима настройки и ввести **yes** для подтверждения.

Войти в гостевую систему и произвести настройку согласно инструкциям в Lab_0_4.