

Thema

Laboratory protocol GNU/Linux - Setting up a multi-user environment



Figure 1: Grouplogo

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1 Task definition

Setting up a headless Linux installation with multiple users, adding them to a group, and setting permissions over a directory structure. You will also need to set up an ssh server for which you will need to set up key pair authentication.

$\mathbf{2}$ Summary

To accomplish this, we set up a Docker image that does all the necessary setup so that the container can be rebuilt at any time for easier testing instead of using a heavier vm. To make it easier to rebuild and restart the container, we wrote a shell script to the source so that we had aliases for all the commands. We used the Ubuntu Docker image as a base, installed the required packages since the image comes with a minimal amount of packages, and used useradd, chmod, chown, chgrp, su to add users, change file ownership, permissions and test. Finally, for the ssh part, the service was set up and configured appropriately. We did everything that made sense in the Dockerfile file to make it reproducible.

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3 Exercise Execution

3.1 Creating the Container

I decided to write my own dockerfile for this, which is a text file that describes the commands needed to create the desired image. Lets walk through how to create an image for the first task.

We start by using the FROM keyword to specify the base image [4] from which we are starting.

FROM ubuntu:latest

#!/bin/sh

I chose the ubuntu image [5] and used the latest tag, which points to the latest LTS release.

However, if we were to build, start, and execute in the container, we would not be able to do it because it would immediately showdown since nothing is running.

To mitigate this, we add CMD tail -F /dev/null to the end of our Dockerfile. The tail command prints the last 10 lines of a file and the -F argument stands for follow, so it will run forever and print the last 10 lines of a given file.[3] I used the file /dev/null, which is a virtual device, so any data written to it will disappear. [6] So we are essentially reading an empty file forever to keep the container up.

If we now run the following commands to build the image, run the container and get a shell in it.

```
#build the image
docker buildx build -t image-name .
#run the container
docker run -d --name container-name
#exec into the container (get a shell in it)
docker exec -it container-name /bin/bash
```

To make to commands less work to type, i like to make a shell script that i can source to have aliases for it like this.

```
docker run -d -p 38452:38452 --name itsi itsi:latest &&\
docker exec -it itsi /bin/bash'"

alias stop="sudo sh -c 'docker stop itsi && docker rm itsi'"
```

Now we are in the container, but it does not have any of the required packages installed that are needed for this exercise. They can be installed in the container now, which would defeat the whole purpose of building an image, so we use the RUN keyword in our dockerfile along with the desired command to run it when the image is built, so that the packages are installed as soon as you spin up the container:

```
RUN apt update
RUN apt upgrade -y
RUN apt install iproute2 iputils-ping zsh net-tools vim -y
```



3.2 Testing Connectivity

Now we can finally test the connectivity since we have the iputils-ping package installed. Everything works out of the box using the default bridge [1]

```
Toot@ab85eae5b992:~# ping google.at
PING google.at (142.251.208.99) 56(84) bytes of data.
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=1 ttl=57 time=5.72 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=2 ttl=57 time=5.20 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=2 ttl=57 time=5.20 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=3 ttl=57 time=5.87 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=5 ttl=57 time=5.41 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=5 ttl=57 time=5.41 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=7 ttl=57 time=4.98 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=7 ttl=57 time=4.92 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=9 ttl=57 time=4.92 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=10 ttl=57 time=4.87 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=4.87 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=4.90 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
64 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
65 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
66 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
67 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
68 bytes from bud02s41-in-f3.le100.net (142.251.208.99): icmp_seq=12 ttl=57 time=5.12 ms
69 byte
```

Figure 2: Ping to the Internet

```
root@ab85eae5b992:~# ping 10.0.0.21
PING 10.0.0.21 (10.0.0.21) 56(84) bytes of data.
64 bytes from 10.0.0.21: icmp_seq=1 ttl=63 time=0.789 ms
64 bytes from 10.0.0.21: icmp_seq=2 ttl=63 time=0.887 ms
64 bytes from 10.0.0.21: icmp_seq=2 ttl=63 time=0.881 ms
64 bytes from 10.0.0.21: icmp_seq=3 ttl=63 time=0.861 ms
64 bytes from 10.0.0.21: icmp_seq=5 ttl=63 time=0.781 ms
64 bytes from 10.0.0.21: icmp_seq=5 ttl=63 time=0.781 ms
64 bytes from 10.0.0.21: icmp_seq=5 ttl=63 time=0.765 ms
64 bytes from 10.0.0.21: icmp_seq=7 ttl=63 time=0.675 ms
64 bytes from 10.0.0.21: icmp_seq=1 ttl=63 time=0.675 ms
64 bytes from 10.0.0.21: icmp_seq=5 ttl=63 time=0.482 ms
64 bytes from 10.0.0.21: icmp_seq=1 ttl=63 time=1.16 ms
64 bytes from 10.0.0.21: icmp_seq=11 ttl=63 time=0.191 ms
64 bytes from 10.0.0.21: icmp_seq=11 ttl=63 time=0.708 ms
^C
--- 10.0.0.21 ping statistics ---
12 packets transmitted, 12 received, 0% packet loss, time 11143ms
root@ab85eae5b992:~#
```

Figure 3: Ping the local machine



3.2.1 It works, but why?

If we inspect our container using docker inspect container-name, we see that its IP is different from that of the lan.

```
"Networks": {
    "bridge": {
        "IPAMConfig": null,
        "Links": null,
        "Aliases": null,
        "Aliases": null,
        "MacAddress": "02:42:ac:11:00:02",
        "DriverOpts": null,
        "MertworkID": "a968a37e40341efec5e3524c509721198c066717751c17f949dd2833f9a9440f",
        "EndpointID": "9d04b0da83449a5ab6b9a516aee20488ed5bc7711331007918b7292b7a0d8811",
        "Gateway": "172.17.0.1",
        "IPAddress": "172.17.0.2",
        "IPPrefixten": 16,
        "IPv6Gateway": "",
        "GlobalIPv6Address": "",
        "GlobalIPv6PrefixLen": 0,
        "DNSNames": null
}
```

Figure 4: docker inspect

This happens because when you install Docker, it creates a virtual interface docker0 that is used as a network bridge to allow the container to communicate with the Internet and LAN. [7] There are other types of

```
-
) ip a | grep docker0
4: docker0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
6: vethaa4d2c2@if5: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master docker0 state UP group default
```

Figure 5: ip a | grep docker0

Docker networks, but they are not relevant for this exercise.[7]



3.3 creating and managing users

To add groups and users, use the commands groupadd and useradd. To add the user, we add the following lines to our Dockerfile

```
#creating the group
RUN groupadd -g 324 ram-Users
#creating the users -u is used to set the groupid
RUN useradd -u 1024 ram-alois &&\
    useradd -u 1124 ram-berta &&\
    useradd -u 1224 ram-chris &&\
    useradd ram-fus &&\
    useradd ram-fus &&\
    useradd ram-ram

#adding the users to the groups
RUN usermod -g ram-Users ram-alois &&\
    usermod -g ram-Users ram-berta
#settings chris's default shell to zsh
RUN usermod --shell /bin/zsh ram-chris
```

3.3.1 logging in as the users

To log in as another user, use the su command.

```
root@ab85eae5b992: -# su ram-berta
ram-berta@ab85eae5b992: /root$ whoami
ram-berta
ram-berta
ram-berta
ram-berta
lam-cons
lam-berta
lam-cons
lam-co
```

Figure 6: Login as Berta and Chris

Each user has their own history, which is stored in their home directory in either the .bash_history or .zsh_history file. You end the session with the exit command or by pressing <C-d>.

3.4 Set directory privileges

The directories are created with this command and the -p stands for parent and creates parent directories if needed. For example, mkdir /test/test2 wouldn't work if you don't have /test, but using mkdir -p instead will create /test and /test/test2.

```
RUN mkdir -p /data/fus &&\
    mkdir /data/fus/alois &&\
    mkdir /data/fus/berta &&\
    mkdir /data/fus/chris &&\
    mkdir /data/fus/public
```

Three tools are used to set the permission: chrgrp, chown and chmod.

First, we want everyone in the group to have access to the directory for which chgrp -R ram-Users /data/fus/ is used with the -R argument, which means recursive [12, 2].

To give everyone all the permissions in their own directory, we need to make them the owner of it using chown -R username:groupname /data/fus/name-of-directory.[10]

Now we can assign permissions to each directory using the chmod[8] command.

To better understand the command, here is a breakdown of the options:



```
u = user who owns the file
g = group \rightarrow everyone in the group of the owner
o = other -> everyone else
r = read
w = write
x = execute
+ adding permissions
- removing permissions
= setting permissions
[8] Now, let us use this to set up the permissions accordingly
#giving the [g]roup [r]ead and [w]write permissions for /data/fus
chmod g+rw /data/fus/
#giving the owner all permissions, the [g]roup only read [r]ead and none to [o]thers
chmod -R u+wrx,g=r,o= /data/fus/alois/
#same for berta
#giving the owner all permissions and none to the [g]roup and [o]thers
chmod -R u+wrx,g=,o= /data/fus/chris/
#giving the owner and [g]roup all permissions and none to [o]thers
chmod -R u+wrx,g+wrx,o=r /data/fus/public/
[8]
```

```
ram-aloiseS7bb0ddcSdca:/data/fus$ touch alois/alois && ls alois/
alois datel_von_alois
ram-aloiseS7bb0ddcSdca:/data/fus$ touch berta/alois
ram-aloiseS7bb0ddcSdca:/data/fus$ touch berta/alois
touch: cannot touch 'berta/alois': Permission denied
ram-aloiseS7bb0ddcSdca:/data/fus$ ls berta/
datel_von_berta
ram-aloiseS7bb0ddcSdca:/data/fus$ ls chris/
ls: cannot open directory 'chris': Permission denied
ram-aloiseS7bb0ddcSdca:/data/fus$ touch public/alois
ram-aloiseS7bb0ddcSdca:/data/fus$ touch public/alois
ram-aloiseS7bb0ddcSdca:/data/fus$ touch public/alois
ram-aloiseS7bb0ddcSdca:/data/fus$ touch berta/berta && ls berta/
berta datei_von_berta
ram-bertaeS7bb0ddcSdca:/data/fus$ touch berta/berta && ls berta/
berta datei_von_berta
ram-bertaeS7bb0ddcSdca:/data/fus$ touch berta/berta datei_von_berta
ram-bertaeS7bb0ddcSdca:/data/fus$ touch chris/berta
touch: cannot touch 'alois/berta': Permission denied
ram-bertaeS7bb0ddcSdca:/data/fus$ touch chris/berta
touch: cannot touch 'chris/berta': Permission denied
ram-bertaeS7bb0ddcSdca:/data/fus$ touch chris/berta
touch: cannot touch 'chris/berta': Permission denied
ram-bertaeS7bb0ddcSdca:/data/fus$ touch chris/berta
touch: cannot touch 'chris/berta': Permission denied
ram-bertaeS7bb0ddcSdca:/data/fus$ touch public/berta && ls public/
alois berta
ram-bertaeS7bb0ddcSdca:/data/fus$ touch public/berta && ls public/
alois berta
ram-bertaeS7bb0ddcSdca:/data/fus$ touch public/berta && ls public/
alois berta
ram-bertaeS7bb0ddcSdca:/data/fus$
57bb0ddcSdca% touch chris/chris && ls chris
chris datei_von_chris
57bb0ddcSdca% touch berta/chris
touch: cannot touch 'berta/chris': Permission denied
57bb0ddcSdca% touch berta/chris
ls: cannot open directory 'berta': Permission denied
57bb0ddcSdca% touch berta/chris': Permission denied
```

Figure 7: Testing permissions

If we log in as the users, we can see that everything is working as intended.



3.5 setting up ssh

The two new users required for this have already been created above in 3.3

To set up an ssh server we need to install the package, if we just add ssh to our install command in the Dockerfile we find out that this command requires interactions to set the timezone we need to add these two extra lines to the Dockerfile.

```
#setting the timezone
RUN ln -fs /usr/share/zoneinfo/Europe/Vienna /etc/localtime
#running the command without it beeing interactive
RUN DEBIAN_FRONTEND=noninteractive apt install -y tzdata ssh
```

Now ssh is installed, but it needs to be started, all we need to do is edit the last line of the file to start the service as well.

```
#the default command from before
CMD tail -F /dev/null
#with starting ssh
CMD service ssh start && tail -F /dev/null
```

To find out what port the server is listening on for ssh, we use the netstat command that comes with the net-tools package that we installed earlier. This is done with the command netstat -tunlp | grep ssh. The options of the command are explained below.

```
-t show TCP ports
-u show UDP ports
-n show numerical addresses instead of resolving hosts
-l show only listening ports
-p show the PID of the listener's process
[9]
```

Figure 8: Search for port with netstat

Apparently it is a "good practice" to switch from the default ssh port to a different port to avoid bots and script kiddies that scan the internet for public servers with ssh and test default passwords. I think this is snake oil to change ports for better security, because if you disable password authentication, have a strong password, or ban failing ips with tools like fail2ban, all the problems are solved anyway.[11]

For this we need to edit the file /etc/ssh/sshd_config.

I still changed the port to show how it would be done anyway. To do this, we can use the preinstalled text editor sed, so edit the file with the following command to change the port in the Dockerfile.

```
#-i edit the file in place without printing it to the console
#s to use the substitute command of sed
#'/s/string-you-want-to-replace/string-you-want-to-replace-it-with'
#/etc/ssh/sshd_config file that you want to edit
RUN sed -i 's/#Port 22/Port 38452/' /etc/ssh/sshd_config
```

When we try to ssh in with the created user, we cannot yet, since we have not published any ports in our container yet.

3.5.1 Logging On to the SSH Server

To do this, we need to add a line to the Dockerfile and edit the docker run command.

```
#add this with the port of your choice to the Dockerfile
EXPOSE 38452
#add -p to [p]ublish the desired port
docker run -d -p 38452 --name container -name
```



```
> ssh -p 38452 ram-fus@localhost
ssh: connect to host localhost port 38452: Connection refused
```

Figure 9: Connection refused

```
root@nas:~/test# ssh ram-fuest@localhost -p 38452
The authenticity of host '[localhost]:38452 ([::1]:38452)' can't be established.
ECDSA key fingerprint is SHA256:nP4zo6CxU5MQdq5G81DeaBh3HKpSpVm4hMa3Iumok0c.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[localhost]:38452' (ECDSA) to the list of known hosts.
ram-fuest@localhost's password:
Permission denied, please try again.
ram-fuest@localhost's password:
Permission denied, please try again.
ram-fuest@localhost's password:
ram-fuest@localhost's password:
ram-fuest@localhost: Permission denied (publickey,password).
root@nas:~/test#
```

Figure 10: Logging in without a password

Even if we log in now, it still won't work because the user doesn't have a password. To fix this we add this line to our Dockerfile:

```
RUN echo 'root:youresecurepasswordhere' | chpasswd
```

We change the root password instead of the user password because we do not have **sudo** setup, and having to type sudo for every command when we are the only user is both unnecessary and annoying.

```
"/.ssh took 3s
) ssh -p 38452 root@localhost

Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.11.5-arch1-1 x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/pro

This system has been minimized by removing packages and content that are not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Last login: Thu Oct 31 19:28:43 2024 from 172.17.0.1
root@ab85eae5b992:~#
```

Figure 11: working login



3.5.2 enabeling keypair authenthication

To generate a key pair, we go back to our host system and run the command ssh-keygen -b 4096 to generate a 4096-bit SSH key. ssh-keygen On Linux, the keys are stored in the /.ssh directory, but you can specify a location with -f. The file that ends with .pub is the public key, and the other is the private key.

```
~/.ssh
> ls
id_ed25519 id_ed25519.pub
```

Figure 12: keys in the directory

To copy the public key to the server we want to use it on, we use the command ssh-copy-id on Linux and scp on Windows and Mac. ssh-copy-id

```
"/.ssh
) ssh-copy-id -p 38452 root@localhost
//usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/stefiii/.ssh/id_ed25519.pub"
//usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
//usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
root@localhost's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh -p 38452 'root@localhost'"
and check to make sure that only the key(s) you wanted were added.

"/.ssh took 17s
}
```

Figure 13: ssh-copy-id

After this we will not need to enter a password to authenticate.

```
"/.ssh took 3s
> ssh -p 38452 root@localhost

Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.11.5-arch1-1 x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://landscape.canonical.com

This system has been minimized by removing packages and content that are not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Last login: Thu Oct 31 19:28:43 2024 from 172.17.0.1
root@ab85eae5b992:~#
```

Figure 14: logging with a key



3.5.3 Disable password authentication

To only allow key authentication, we need to edit the /etc/ssh/sshd_config file again. To do this, we ssh into the server, open the file with a text editor of your choice, and edit this line.

```
#change this
#PasswordAuthentication yes
#to this
PasswordAuthentication no
```

If we try to log in as another user for which we do not have a key, we cannot connect.

```
> ssh -p 38452 ram-fus@localhost
ssh: connect to host localhost port 38452: Connection refused
```

Figure 15: Not having a key



References

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- [2] cheat.sh/chgrp, November 2024. [Online; accessed 3. Nov. 2024].
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5 Attachments

Dockerfile FROM ubuntu:latest RUN apt update && apt upgrade -y &&\ apt install iproute2 iputils-ping zsh net-tools vim -y RUN ln -fs /usr/share/zoneinfo/Europe/Vienna /etc/localtime RUN DEBIAN_FRONTEND=noninteractive apt install -y tzdata ssh RUN echo 'root:password' | chpasswd RUN sed -i 's/#Port 22/Port 38452/' /etc/ssh/sshd_config RUN sed -i 's/#PermitRootLogin prohibit-password/PermitRootLogin yes/'\ /etc/ssh/sshd_config RUN groupadd -g 324 ram-Users &&\ useradd -u 1024 ram-alois &&\ useradd -u 1124 ram-berta &&\ useradd -u 1224 ram-chris &&\ useradd ram-fus &&\ useradd ram-ram RUN usermod -g ram-Users ram-alois &&\ usermod -g ram-Users ram-berta RUN usermod --shell /bin/bash ram-alois &&\ usermod --shell /bin/bash ram-berta &&\ usermod --shell /bin/zsh ram-chris RUN mkdir -p /data/fus &&\ mkdir /data/fus/alois &&\ mkdir /data/fus/berta &&\ mkdir /data/fus/chris &&\ mkdir /data/fus/public RUN chgrp -R ram-Users /data/fus/ &&\ chmod g+rw /data/fus/ &&\ chown -R ram-alois:ram-Users /data/fus/alois/ &&\ chmod -R u+wrx,g=r,o= /data/fus/alois/ &&\ chown -R ram-berta:ram-Users /data/fus/berta/ &&\ chmod -R u+wrx,g=r,o= /data/fus/berta/ &&\ chown -R ram-chris:ram-Users /data/fus/chris/ &&\ chmod -R u+wrx,g=,o= /data/fus/chris/ &&\ chmod -R u+wrx,g+wrx,o=r /data/fus/public/ **EXPOSE** 38452 CMD service ssh start && tail -F /dev/null alias.sh #!/bin/sh alias relaunch="sudo sh -c 'docker stop itsi &&\ docker rm itsi &&\ docker buildx build -t itsi:latest . &&\ docker run -d -p 38452:38452 --name itsi itsi:latest &&\ docker exec -it itsi /bin/bash'" alias rebuild="sudo sh -c 'docker buildx build -t itsi:latest . &&\

docker exec -it itsi /bin/bash'"

docker run -d -p 38452:38452 --name itsi itsi:latest &&\

alias stop="sudo sh -c 'docker stop itsi && docker rm itsi'"