practise 4:

steps:

1. connect via ssh `ssh -i my-key.pem ubuntu@13.40.48.109`

2. install prometheus:

```
ubuntu@ip-172-31-44-91:/tmp/prometheus$ tar -xvf prometheus-2.32.1.linux-amd64.tar.gz
prometheus-2.32.1.linux-amd64/
prometheus-2.32.1.linux-amd64/consoles/
prometheus-2.32.1.linux-amd64/consoles/index.html.example
prometheus-2.32.1.linux-amd64/consoles/node-cpu.html
prometheus-2.32.1.linux-amd64/consoles/node-disk.html
prometheus-2.32.1.linux-amd64/consoles/node-overview.html
prometheus-2.32.1.linux-amd64/consoles/node.html
prometheus-2.32.1.linux-amd64/consoles/prometheus-overview.html
prometheus-2.32.1.linux-amd64/consoles/prometheus.html
prometheus-2.32.1.linux-amd64/console_libraries/
prometheus-2.32.1.linux-amd64/console_libraries/menu.lib
prometheus-2.32.1.linux-amd64/console_libraries/prom.lib
prometheus-2.32.1.linux-amd64/prometheus.yml
prometheus-2.32.1.linux-amd64/LICENSE
prometheus-2.32.1.linux-amd64/NOTICE
prometheus-2.32.1.linux-amd64/prometheus
prometheus-2.32.1.linux-amd64/promtool
ubuntu@ip-172-31-44-91:/tmp/prometheus$ sudo mkdir -p /data /etc/prometheus
ubuntu@ip-172-31-44-91:/tmp/prometheus$ cd prometheus-2.32.1.linux-amd64
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$ sudo mv prometheus promtool /usr/local/bin/
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$ sudo mv prometheus.yml /etc/prometheus/prometheus.yml
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$ sudo chown -R prometheus:prometheus /etc/prometheus/ /data/
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$ prometheus --version
prometheus, version 2.32.1 (branch: HEAD, revision: 41f1a8125e664985dd30674e5bdf6b683eff5d32)
  build user:       root@54b6dbd48b97
  build date:       20211217-22:08:06
  go version:       go1.17.5
  platform:         linux/amd64
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$
```

4. install alert manager:

```
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$ sudo apt install snapd
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
snapd is already the newest version (2.58+22.04).
snapd set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$ sudo snap install prometheus-alertmanager
prometheus-alertmanager 0.25.0 from Canonical installed
ubuntu@ip-172-31-44-91:/tmp/prometheus/prometheus-2.32.1.linux-amd64$
```

5. install node-exporter

```
ubuntu@ip-172-31-44-91:/tmp/prometheus$ wget https://github.com/prometheus/node_exporter/releases/download/v1.6.0/node_exporter-1.6.0.linux-amd64.tar.gz
--2023-05-28 19:53:20--  https://github.com/prometheus/node_exporter/releases/download/v1.6.0/node_exporter-1.6.0.linux-amd64.tar.gz
Resolving github.com (github.com)... 140.82.121.3
Connecting to github.com (github.com)|140.82.121.3|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/9524057/0596919f-7be9-4f77-88af-1bfc173d40c7?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F202305
28%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20230528T195320Z&X-Amz-Expires=300&X-Amz-Signature=8f9f22b444541c47350fdb42bb4dd5a424afb49e9cda9157f7a09a5d943e37ec&X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo
_id=9524057&response-content-disposition=attachment%3B%20filename%3Dnode_exporter-1.6.0.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream [following]
--2023-05-28 19:53:20--  https://objects.githubusercontent.com/github-production-release-asset-2e65be/9524057/0596919f-7be9-4f77-88af-1bfc173d40c7?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CS
VEH53A%2F20230528%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20230528T195320Z&X-Amz-Expires=300&X-Amz-Signature=8f9f22b444541c47350fdb42bb4dd5a424afb49e9cda9157f7a09a5d943e37ec&X-Amz-SignedHeaders=host&actor_id=
0&key_id=0&repo_id=9524057&response-content-disposition=attachment%3B%20filename%3Dnode_exporter-1.6.0.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.109.133, 185.199.110.133, 185.199.111.133, ...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)|185.199.109.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10367009 (9.9M) [application/octet-stream]
Saving to: 'node_exporter-1.6.0.linux-amd64.tar.gz'

node_exporter-1.6.0.linux-amd64.tar.gz      100%[====================================================================================================>]   9.89M  28.6MB/s    in 0.3s

2023-05-28 19:53:20 (28.6 MB/s) - 'node_exporter-1.6.0.linux-amd64.tar.gz' saved [10367009/10367009]

ubuntu@ip-172-31-44-91:/tmp/prometheus$ tar xvfx node_exporter-1.6.0.linux-amd64.tar.gz
node_exporter-1.6.0.linux-amd64/
node_exporter-1.6.0.linux-amd64/NOTICE
node_exporter-1.6.0.linux-amd64/node_exporter
node_exporter-1.6.0.linux-amd64/LICENSE
ubuntu@ip-172-31-44-91:/tmp/prometheus$ cd node_exporter-1.6.0.linux-amd64/
ubuntu@ip-172-31-44-91:/tmp/prometheus/node_exporter-1.6.0.linux-amd64$ ./node_exporter
ts=2023-05-28T19:53:49.597Z caller=node_exporter.go:180 level=info msg="Starting node_exporter" version="(version=1.6.0, branch=HEAD, revision=ff7f9d69b645cb691dd3e84dc3afc88f5c006962)"
ts=2023-05-28T19:53:49.597Z caller=node_exporter.go:181 level=info msg="Build context" build_context="(go=go1.20.4, platform=linux/amd64, user=root@f9c3ed0cfbd3, date=20230527-12:03:54, tags=netgo osusergo stati
c_build)"
ts=2023-05-28T19:53:49.597Z caller=diskstats_common.go:111 level=info collector=diskstats msg="Parsed flag --collector.diskstats.device-exclude" flag=^(ram|loop|fd|(h|s|v|xv)d[a-z]|nvme\d+n\d+p)\d+$
ts=2023-05-28T19:53:49.597Z caller=filesystem_common.go:111 level=info collector=filesystem msg="Parsed flag --collector.filesystem.mount-points-exclude" flag=^/(dev|proc|run|credentials/.+|sys|var/lib/docker/.+
|var/lib/containers/storage/.+)($|/)
ts=2023-05-28T19:53:49.598Z caller=filesystem_common.go:113 level=info collector=filesystem msg="Parsed flag --collector.filesystem.fs-types-exclude" flag=^(autofs|binfmt_misc|bpf|cgroup2?|configfs|debugfs|devpt
s|devtmpfs|fusectl|hugetlbfs|iso9660|mqueue|nsfs|overlay|proc|procfs|pstore|rpc_pipefs|securityfs|selinuxfs|squashfs|sysfs|tracefs)$
ts=2023-05-28T19:53:49.598Z caller=node_exporter.go:110 level=info msg="Enabled collectors"
ts=2023-05-28T19:53:49.599Z caller=node_exporter.go:117 level=info collector=arp
ts=2023-05-28T19:53:49.599Z caller=node_exporter.go:117 level=info collector=bcache
ts=2023-05-28T19:53:49.599Z caller=node_exporter.go:117 level=info collector=bonding
ts=2023-05-28T19:53:49.599Z caller=node_exporter.go:117 level=info collector=btrfs
ts=2023-05-28T19:53:49.599Z caller=node_exporter.go:117 level=info collector=conntrack
ts=2023-05-28T19:53:49.599Z caller=node_exporter.go:117 level=info collector=cpu
ts=2023-05-28T19:53:49.599Z caller=node_exporter.go:117 level=info collector=cpufreq
```