RANPM INSTLLATION DOCUMENT

First install docker:

- sudo apt update
- sudo apt install apt-transport-https ca-certificates curl software-properties-common
- curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
- echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
- sudo apt update
- sudo apt install docker-ce docker-ce-cli containerd.io
- sudo systemctl start docker
- sudo systemctl enable docker

Second install docker-compose:

- sudo curl -L "https://github.com/docker/compose/releases/latest/download/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
- sudo chmod +x /usr/local/bin/docker-compose
- docker-compose --version

Third install other prerequisites:

- Helm, jq, openssl
- curl https://baltocdn.com/helm/signing.asc | gpg --dearmor | sudo tee /usr/share/keyrings/helm.gpg > /dev/null
- sudo apt-get install apt-transport-https --yes
- echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/helm.gpg] https://baltocdn.com/helm/stable/debian/ all main" | sudo tee /etc/apt/sources.list.d/helm-stable-debian.list
- sudo apt-get update
- sudo apt-get install helm jq openssl
- # For Keytool (Install java)
- sudo apt install openjdk-21-jre-headless
- # Confirm the installations
- type openssl helm jq envsubst keytool

Fourth clone ranpm file:

- git clone "https://gerrit.o-ran-sc.org/r/nonrtric/plt/ranpm" && (cd "ranpm" && mkdir -p `git rev-parse --git-dir`/hooks/ && curl -Lo `git rev-parse --git-dir`/hooks/commit-msg https://gerrit.o-ran-sc.org/r/tools/hooks/commit-msg && chmod +x `git rev-parse --git-dir`/hooks/commit-msg)

Fifth :

Build Https server:

- cd ranpm/https-server
- ./build.sh no-push

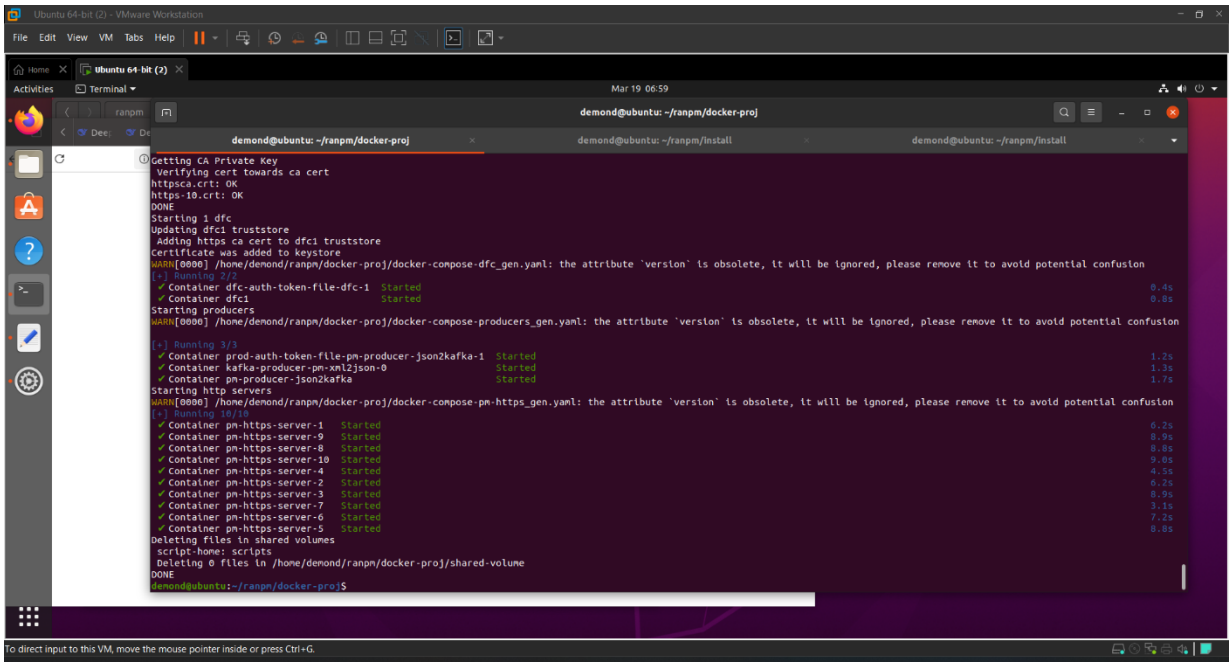
Build PM rApp

- cd ranpm/pm-rapp
- ./build.sh no-push

Sixth:

- cd ranpm/docker-proj
- sudo ./docker-setup.sh

#It takes time to download images and starting containers at the end it should look like this:

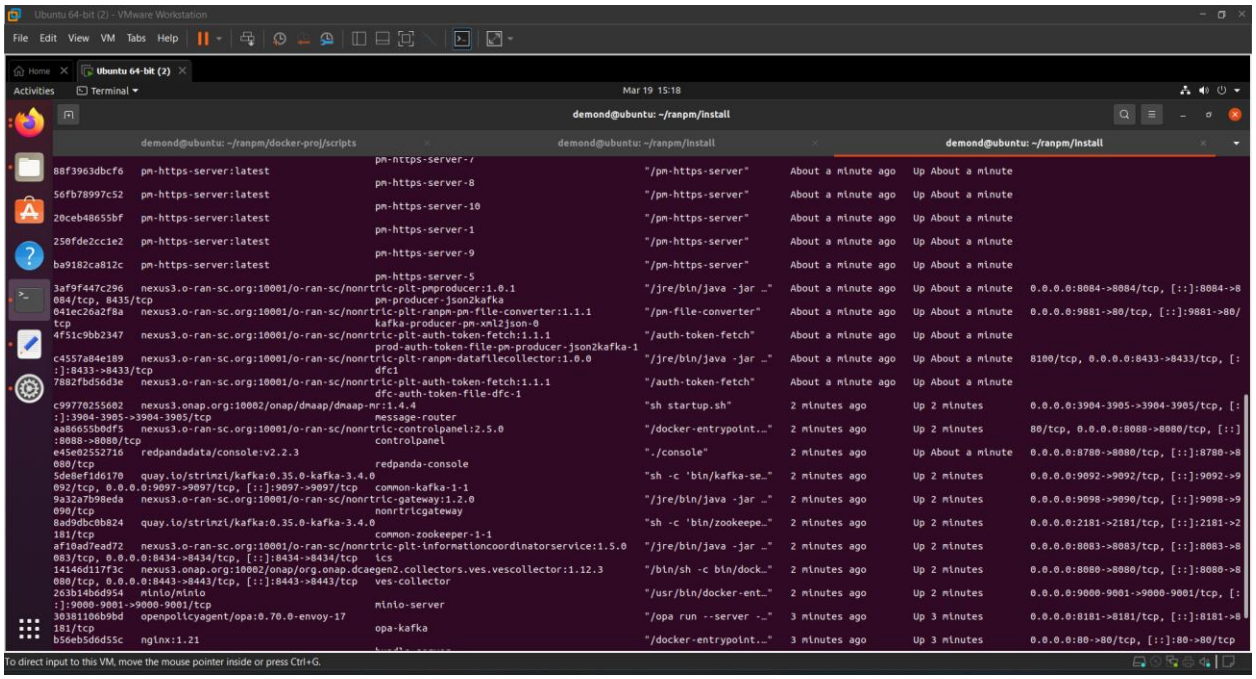


#After that run the influxdb :

- cd ranpm/docker-proj
- sudo ./pmlog-setup.sh

#After successfully running check for the running container

- sudo docker ps -a



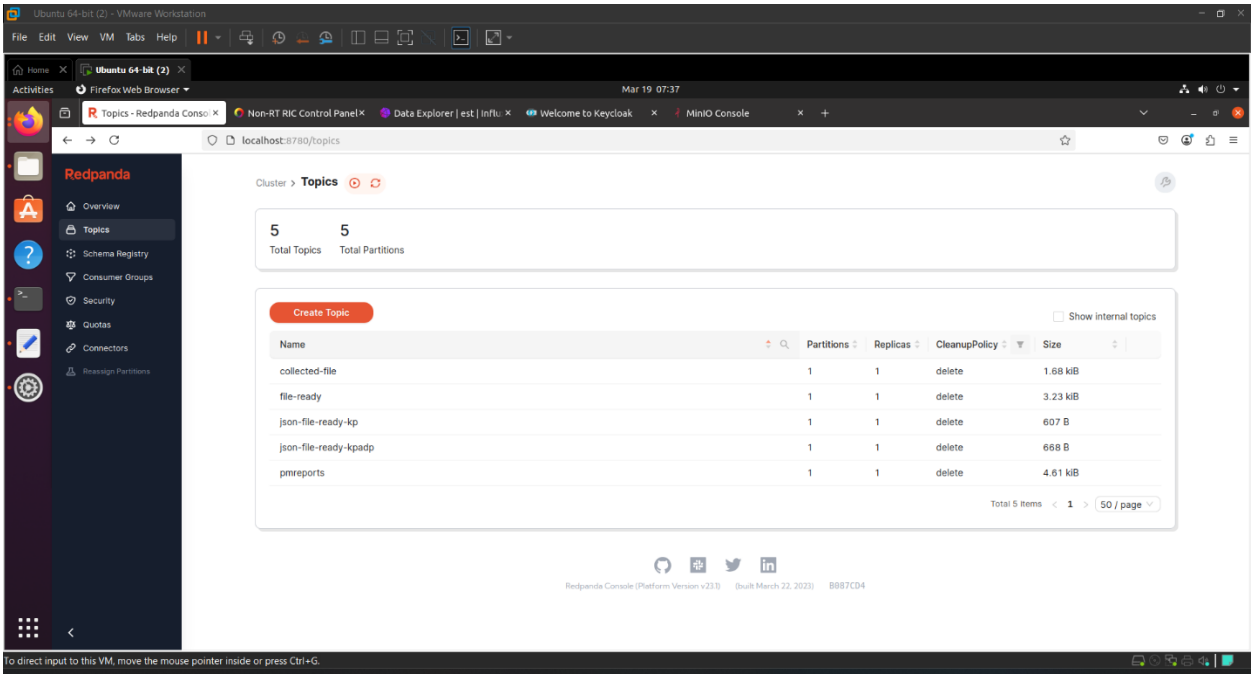
The running containers show the port for each container, most important ports:

- Redpandas →8780
- Influxdb →8086
- Control-panel →8088
- Keycloak →8462
- Vescollector →8080
- Minio → 9001

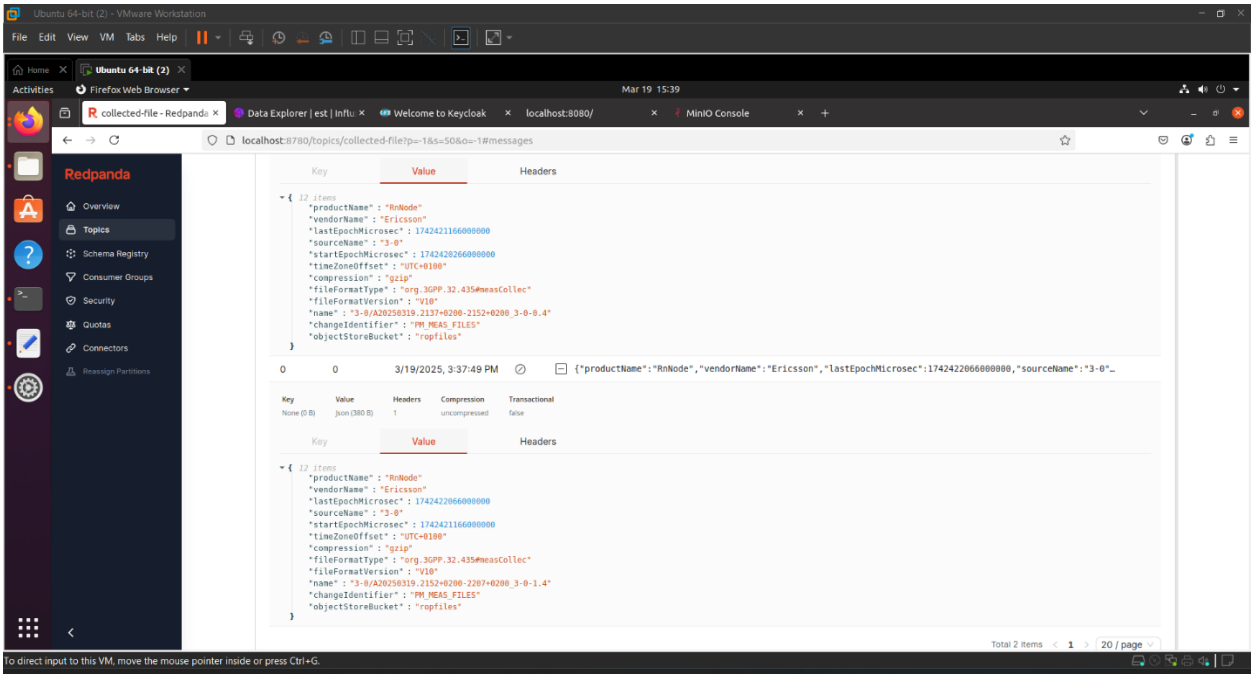
To make a topic to view on redpandas which is the GUI of kafka server run the following commands:

- cd /ranpm/docker-proj/scripts
- sudo ./push-to-file-ready-topic.sh 1 2 3 4 5 #these numbers refers to <node-count> <num-of-events> <node-name-base> <file-extension> <num-servers>#
- sudo ./push-to-file-ready-topic.sh 1 2 3 4 5

#after running all of these go to the localhost of redpandas to view the topics :

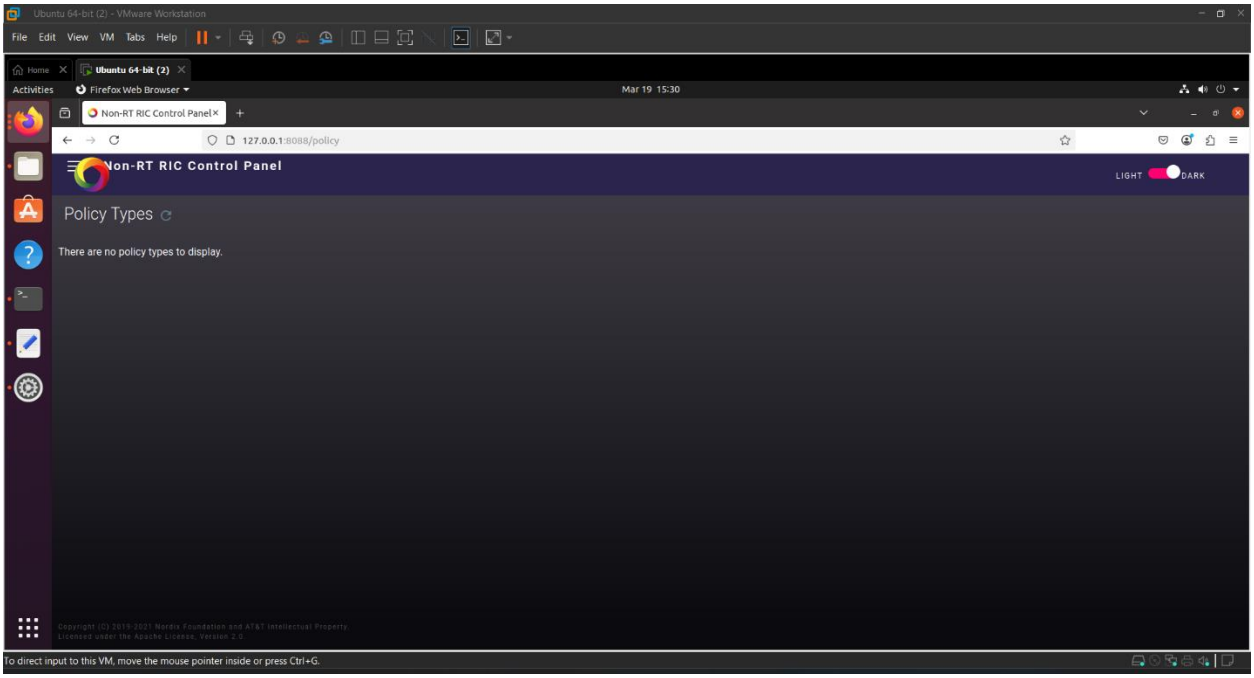


Example of files in topics :

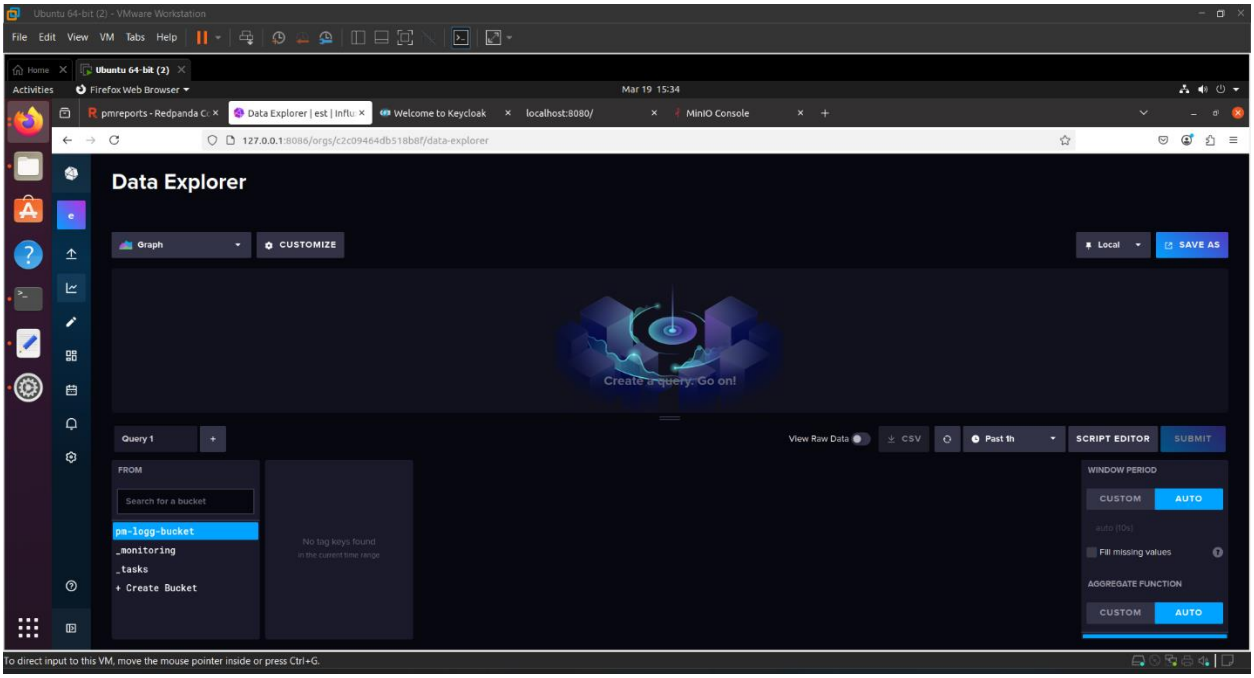


you can access different containers now to view the project:

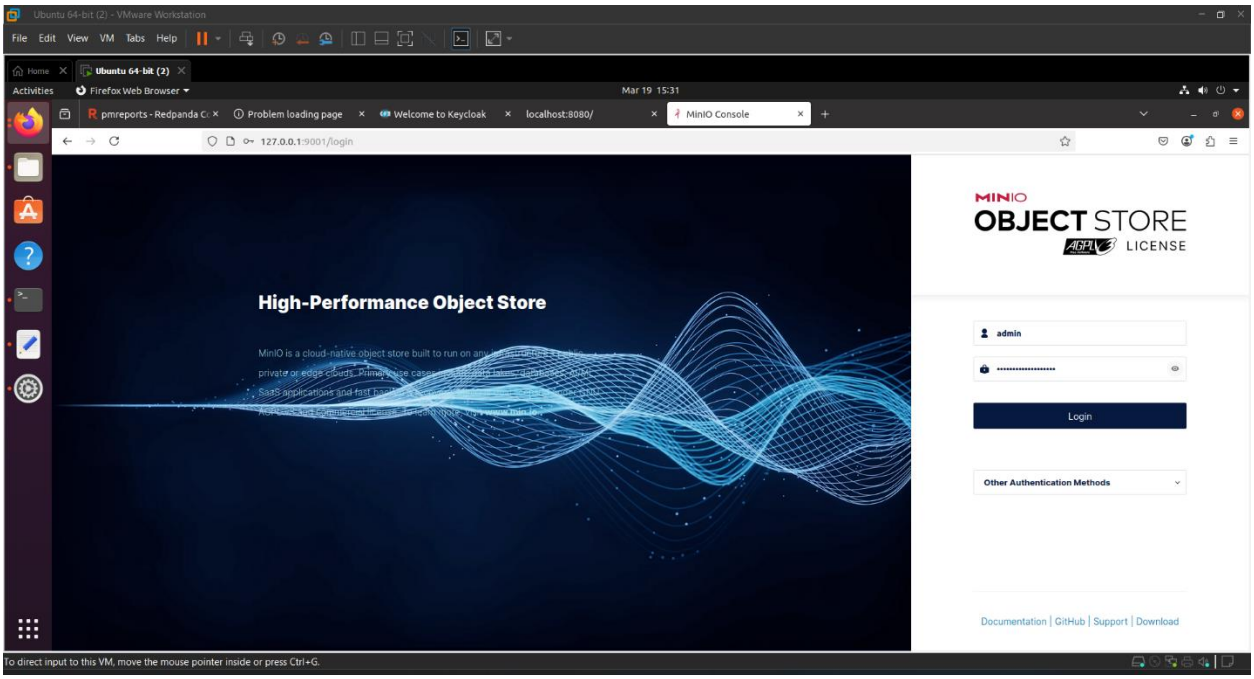
- control pannel :



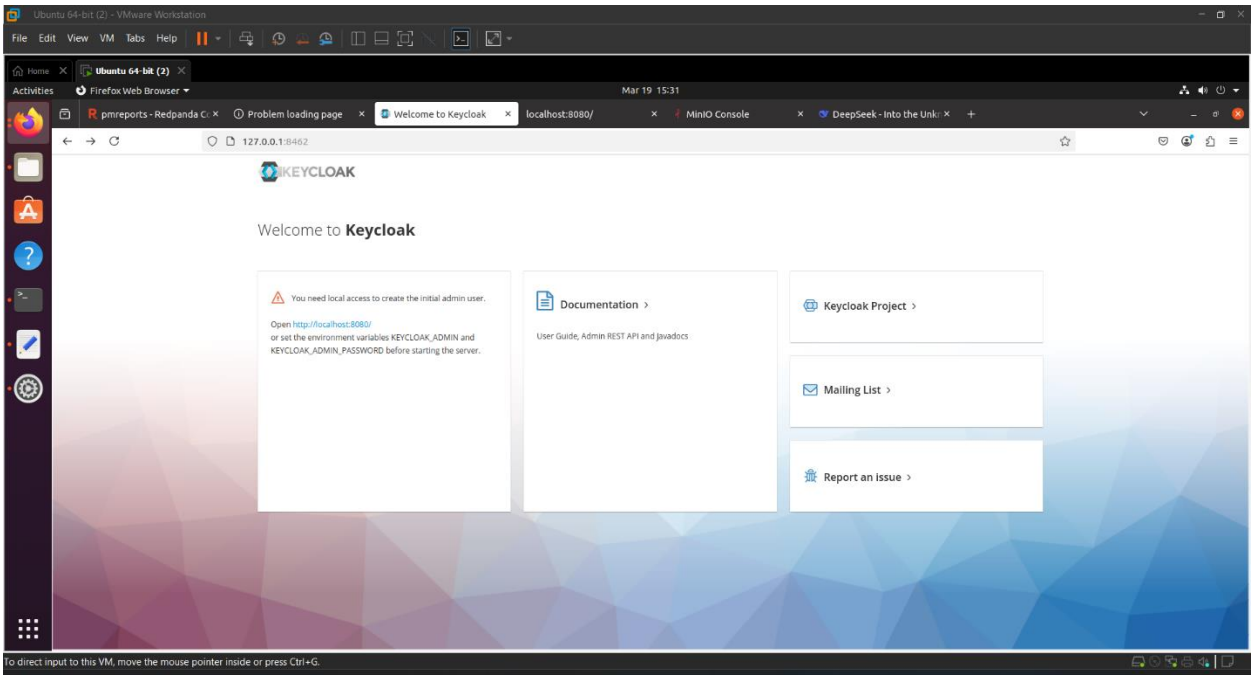
- influxdb:



- minio:



- keycloak:



- VEScollector: