##How To Minishift LAB - Por: Gabriel Peixer

Esse passo a passo envolve as tecnologias:

- Linux Ubuntu;
- Minishift;
- Docker;
- Nginx

Preparando o ambiente de trabalho

#1 instale libvirt e gemu-kvm em seu sistema:

root@ubuntu1604:/home/vagrant# apt install libvirt-bin

#2 adicionar seu usuário ao grupo:

root@ubuntu1604:/home/vagrant# groupadd libvirt
root@ubuntu1604:/home/vagrant# sudo usermod --append --groups libvirt \$(whoami)

#3 atualize sua sessão atual para aplicar a mudança do grupo

root@ubuntu1604:/home/vagrant# newgrp libvirt

#4 como root instalar o binário da kvm da sequinte forma

root@ubuntu1604:/home/vagrant# curl -L

https://github.com/dhiltgen/docker-machine-kvm/releases/download/v0.10.0/docker-machine-driver-kvm-centos7 -o /usr/local/bin/docker-machine-driver-kvm

% Total % Received % Xferd Average Speed Time Time Current

Dload Upload Total Spent Left Speed

100 657 100 657 0 0 753 0 --:--:-- 753

100 11.3M 100 11.3M 0 0 2609k 0 0:00:04 0:00:04 --:--:- 4174k

root@ubuntu1604:/home/vagrant# chmod +x /usr/local/bin/docker-machine-driver-kvm

Startando o serviços

#5 checar o status da virtlibd

root@ubuntu1604:/home/vagrant# systemctl is-active libvirtd
active

#6 caso serviço não esteja ativo, ativar conforme abaixo:

root@ubuntu1604:/home/vagrant# sudo systemctl start libvirtd

Instalando o minishift

#8 instalando pelos binários e descompactando

root@ubuntu1604:/home/vagrant# wget

https://github.com/minishift/minishift/releases/download/v1.24.0/minishift-1.24.0-linux-am d64.tqz

root@ubuntu1604:/home/vagrant# tar -xvf minishift-1.24.0-linux-amd64.tgz

minishift-1.24.0-linux-amd64/

minishift-1.24.0-linux-amd64/LICENSE

minishift-1.24.0-linux-amd64/README.adoc

minishift-1.24.0-linux-amd64/minishift

#9 Mova o arquivo binário minishift para seu PATH, que você pode encontrar executando o seguinte e observando a saída:

<u>root@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64# echo \$PATH /usr/local/sbin:/usr/local/sbin:/usr/local/sbin:/usr/local/sbin:/usr/local/games:/snap/bin</u>

root@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64# mv minishift /usr/local/bin root@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64# ls /usr/local/bin/ docker-machine-driver-kvm minishift

#10 Execute o comando minishift e observe a saída:

root@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64# minishift

Minishift is a command-line tool that provisions and manages single-node OpenShift
clusters optimized for development workflows.

Usage:

minishift [command]

Available Commands:

- <u>addons</u> <u>Manages Minishift add-ons.</u>
- completion Outputs minishift shell completion for the given shell (bash or zsh)
- config Modifies Minishift configuration properties.
- console Opens or displays the OpenShift Web Console URL.
- delete Deletes the Minishift VM.
- docker-env Sets Docker environment variables.
- help Help about any command
- hostfolder Manages host folders for the Minishift VM.
- <u>image</u> Exports and imports container images.
- ip Gets the IP address of the running cluster.
- logs Gets the logs of the running OpenShift cluster.
- oc-env Sets the path of the 'oc' binary.
- openshift Interacts with your local OpenShift cluster.

#11Logar no MiniShift Web Console

root@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64#minishift start

Starting profile 'minishift'

Check if deprecated options are used ... OK

Checking if https://github.com is reachable ... OK

[...]

Minishift will be configured with...

Memory: 4GB vCPUs : 2GB Disk size: 20 GB

Starting Minishift VMOK

Server Information ...

MiniShift server started.

The server is accessible via web console at:

https://192.168.42.66:8443/console

vroot@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64#minishift oc-env

#12.Subindo a imagem do docker

root@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64# docker pull nginx

Using default tag: latest

latest: Pulling from library/nginx a076a628af6f: Pull complete 0732ab25fa22: Pull complete d7f36f6fe38f: Pull complete f72584a26f32: Pull complete 7125e4df9063: Pull complete

Digest:

sha256:10b8cc432d56da8b61b070f4c7d2543a9ed17c2b23010b43af434fd40e2ca4aa

Status: Downloaded newer image for nginx:latest

#13. Listando e executando o container

root@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64# docker image Is REPOSITORY TAG IMAGE ID CREATED SIZE nginx latest f6d0b4767a6c 2 weeks ago 133MB root@ubuntu1604:/home/vagrant/minishift-1.24.0-linux-amd64# docker run --name nginx2Coloque este arquivo no mesmo diretório do seu diretório de conteúdo ("static-html-directory"), execute -p 80:80 -d nginx 3df60968c6915597db6df6f866d43fa90eecd4684ab5bb70c38aeffc06131336

#14. Criar arquivo com conteúdo estático

root@ubuntu1604:/home/vagrant# touch nexxes.json root@ubuntu1604:/home/vagrant# Is minishift-1.24.0-linux-amd64 minishift-1.24.0-linux-amd64.tgz nexxes.json root@ubuntu1604:/home/vagrant# chmod 777 nexxes.json root@ubuntu1604:/home/vagrant# vi nexxes.json

copiar o conteúdo para arquivo nexxes.json

{"service": {"oracle": "ok", "redis": "ok", "mongo": "down", "pgsql": "down", "mysql": "ok"}}

#15. Hospedando o contéudo

Criar arquivo Dockerfile com o conteúdo

FROM nginx

COPY static-html-directory /usr/share/nginx/hmtl

#16. Coloque este arquivo no mesmo diretório do seu diretório de conteúdo ("static-html-directory"), execute:

root@ubuntu1604:/home/vagrant#docker build -t nginx

#17. Expor a porta para acesso

root@ubuntu1604:/home/vagrant#docker run nginx -d -p 8080:80 nginx

#18. Acessando

digitar no browser http://localhost:8080