DalmatinerDB Getting Started Guide for Beginner

This installation guide dedicated for Debian 9 Operating System on VMWare, you can download the iso file from this link https://www.debian.org/releases/stretch/debian-installer/

Note : just download the first iso, and when installing the OS, use mirror connection and choose kartolo.sby.datautama.net.id, make sure your location is Indonesia

- Installing ZFS

apt install git make gcc g++ zlib1g-dev

nano /etc/apt/sources.list

#add this deb-package

deb http://security.debian.org/debian-security stretch/updates main contrib non-free contrib

deb-src http://security.debian.org/debian-security stretch/updates main contrib non-free contrib

apt update

sed -i 's/main/main contrib non-free/g' /etc/apt/sources.list

apt-get update

apt -y install linux-headers-$(uname -r)

ln -s /bin/rm /usr/bin/rm

apt-get -y install zfs-dkms

- Installing PostgreSQL

apt install postgresql postgresql-contrib

- Installing Erlang and Erlang-os-mon OTP 19

apt install erlang erl-os-mon

erl

#check your erlang version, it should be 19

- Adding second Storage on your virtual machine

#Go to virtual machine settings

#Add, choose hard disk

Reboot

- Setting up ZFS

#Load kernel module

/sbin/modprobe zfs

systemctl restart zfs-import-cache

systemctl restart zfs-import-scan

systemctl restart zfs-mount

systemctl restart zfs-share

#Create ZFS filesystem

zpool create -f -o ashift=12 data /dev/sdb

zfs create data/dalmatinerdb -o compression=lz4 -o atime=off -o logbias=throughput

zfs create data/dalmatinerfe

zfs create data/dalmatinerpx

zpool status

mkdir /data/dalmatinerdb/log

reboot

- Setting up PostgreSQL

su postgres

#Create user, use ‘ddb’ for the password

createuser -P ddb

#Creating database

createdb -O ddb metric\_metadata

#Adding extension

psql

\c metric\_metadata

CREATE EXTENSION hstore;

CREATE EXTENSION btree\_gin;

\q

- Installing DalmatinerDB

mkdir /data/build

git clone https://gitlab.com/Project-FiFo/DalmatinerDB/dalmatinerdb.git /data/build/dalmatinerdb

cd /data/build/dalmatinerdb

make deb-package

dpkg -i rel/deb/stage.deb

systemctl enable dalmatinerdb

systemctl start dalmatinerdb

- Setting up DalmatinerDB

nano /data/dalmatinerdb/etc/ddb.conf

#Find idx.backend, change dqe\_idx\_none to dqe\_idx\_pg

systemctl daemom-reload

systemctl restart dalmatinerdb

- Installing DalmatinerFE

git clone https://gitlab.com/Project-FiFo/DalmatinerDB/dalmatinerfe.git /data/build/dalmatinerdb

cd /data/build/dalmatinerfe

make deb-package

dpkg -i rel/deb/stage.deb

systemctl enable dalmatinerfe

systemctl start dalmatinerfe