**﻿# Ubuntu webserver setup**

**# apt behind proxy**

**# add/comment:**

**# Acquire::http::Proxy "http://192.168.66.1:8783";**

**# Acquire::https::Proxy "http://192.168.66.1:8783";**

**sudo nano /etc/apt/apf.conf.d/01proxy**

**# set up host-only networking adapter connection on Virtualbox on netplan**

**sudo nano /etc/netplan/01-netcfg.yaml**

**# network:**

**# version: 2**

**# ethernets:**

**# enp0s3:**

**# dhcp4: yes**

**# enp0s8:**

**# dhcp4: no**

**# addresses: [192.168.56.5/24]**

**# # gateway4: 192.168.56.1**

**sudo netplan try**

**sudo netplan apply**

**# try pinging VBox adapter**

**ping -c 4 192.168.56.1**

**# install common software and dependencies**

**sudo apt install build-essential curl software-properties-common wget net-tools gcc g++ perl make**

**echo “alias ll=\"ls -alFh\"” >> .bashrc**

**source .bashrc**

**mkdir ~/in**

**mkdir ~/scripts**

**# add repositories**

**sudo apt-add-repository ppa:redislabs/redis**

**sudo add-apt-repository ppa:ondrej/php**

**curl -fsSL https://deb.nodesource.com/setup\_16.x | sudo -E bash -**

**wget -qO - https://www.mongodb.org/static/pgp/server-5.0.asc | sudo apt-key add -**

**echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/5.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-5.0.list**

**# List all repositories**

**# grep ^ /etc/apt/sources.list /etc/apt/sources.list.d/\***

**sudo apt update**

**sudo apt upgrade**

**sudo apt install nginx nginx-extras git nodejs mongodb-org openssl ufw zip unzip mysql-server mysql-common redis openssh-server apache2 apache2-utils nginx**

**# configure SSH and ufw**

**echo "Port 8022" | sudo tee /etc/ssh/sshd\_config.d/00custom.conf**

**sudo systemctl restart ssh**

**sudo ufw enable**

**sudo ufw allow http**

**sudo ufw allow https**

**sudo ufw deny ssh**

**# deny other ports such as 3306, 8080, 5000 etc for local/proxied applications**

**sudo ufw allow from LOCAL\_IP proto tcp to any port 8022**

**# configure apache**

**sudo a2enmod rewrite**

**# install and configure apache2 modsecurity**

**sudo apt install libapache2-mod-security2**

**sudo cp /etc/modesecurity/modsecurity.conf-recommended /etc/modsecurity/modsecurity.conf**

**sudo nano /etc/modsecurity/modsecurity.conf**

**# Set: SecRuleEngine On**

**# Dowload latest OWASP Rules**

**cd ~/**

**mkdir repos**

**cd repos**

**git clone https://github.com/coreruleset/coreruleset.git**

**# MySQL setup**

**sudo mysql # use root password**

**# set root user password**

**mysql > ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password by 'new-password';**

**mysql > exit**

**mysql\_secure\_installation # basic setup and disable remote root login**

**# create databases**

**mysql -u root -p**

**mysql > create database 'database-name';**

**# MySQL < 8.0**

**mysql > grant all privileges on drupal7.\* to ‘drupal7’@’127.0.0.1’ identified by ‘password’ with grant option;**

**# MySQL >= 8.0**

**mysql> CREATE USER 'root'@'%' IDENTIFIED BY 'PASSWORD';**

**mysql> GRANT ALL PRIVILEGES ON \*.\* TO 'root'@'%' WITH GRANT OPTION;**

**# both to glush privileges**

**flush privileges;**

**# delete database**

**mysql > drop 'database-name';**

**#php support**

**sudo apt install php8.2 php8.2-mysql php8.2-zip php8.2-xml php8.2-gd php8.2-imagick php8.2-curl php8.2-mbstring php8.2-ssh2 php8.2-common php8.2-bz2 php8.2-fpm php8.2-cli php8.2-mongodb php8.2-oauth php8.2-redis php8.2-ssh2 libapache2-mod-php8.2 php8.0 php8.0-mysql php8.0-zip php8.0-xml php8.0-gd php8.0-imagick php8.0-curl php8.0-mbstring php8.0-ssh2 php8.0-common php8.0-bz2 php8.0-fpm php8.0-mcrypt php8.0-cli php8.0-mongodb php8.0-oauth php8.0-redis php8.0-ssh2 libapache2-mod-php8.0 php-pear pkg-php-tools**

**# disable php-fpm**

**sudo systemctl disable php8.\*-fpm**

**sudo systemctl disable php8.\*-fpm**

**# install composer**

**#curl -sS https://getcomposer.org/installer -o composer-setup.php**

**#HASH=`curl -sS https://composer.github.io/installer.sig`**

**#php -r "if (hash\_file('SHA384', 'composer-setup.php') === '$HASH') { echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); } echo PHP\_EOL;"**

**# sudo php composer-setup.php --install-dir=/usr/local/bin --filename=composer**

**cd ~/in**

**sudo php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"**

**sudo php -r "if (hash\_file('sha384', 'composer-setup.php') === '55ce33d7678c5a611085589f1f3ddf8b3c52d662cd01d4ba75c0ee0459970c2200a51f492d557530c71c15d8dba01eae') { echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); } echo PHP\_EOL;"**

**sudo php composer-setup.php**

**sudo php -r "unlink('composer-setup.php');"**

**sudo mkdir /usr/bin/composer**

**sudo mv composer.phar /usr/bin/composer**

**composer self-update --update-keys**

**composer self-update**

**composer global update**

**# install drush**

**# composer global require drush/drush:dev-master**

**composer global require drush/drush:dev-master**

**echo export PATH=\"$HOME/.config/composer/vendor/drush/drush:$PATH\" >> $HOME/.bashrc**

**source $HOME/.bashrc**

**drush --version**

**sudo tee ~/scripts/drushw <<EOT**

**#!/bin/bash**

**sudo -u www-data drush $@**

**EOT**

**sudo chmod +x drushw**

**sudo mv ~/scripts/drushw /usr/bin**

**echo "$USER ALL = (ALL) NOPASSWD: ALL" | sudo tee -a "/etc/sudoers.d/$USER"**

**drushw --version**

**composer create-project drupal/recommended-project:^9 $HOME/drupal9**

**sudo cp -R $HOME/drupal9/web /var/www/drupal9**

**sudo chown -R www-data:www-data /var/www**

**# wget -O drush.phar https://github.com/drush-ops/drush-launcher/releases/latest/download/drush.phar**

**# chmod +x drush.phar**

**# sudo mv drush.phar /usr/local/bin/drush**

**# drush --version**

**# drush dl drupal-7 --select**

**# drush si standard --db-url=mysql://drupal7:password@127.0.0.1/drupal7**

**# Redis**

**# Drupal 7 settings.php configuration**

**$conf['redis\_client\_interface'] = 'PhpRedis';**

**$conf['redis\_client\_host'] = '127.0.0.1';**

**$conf['redis\_client\_port'] = '6379';**

**$conf['redis\_client\_password'] = '';**

**$conf['lock\_inc'] = 'sites/all/modules/contrib/redis/redis.lock.inc';**

**$conf['cache\_backends'][] = 'sites/all/modules/contrib/redis/redis.autoload.inc';**

**$conf['cache\_default\_class'] = 'Redis\_Cache';**

**// The 'cache\_form' bin must be assigned to non-volatile storage.**

**$conf['cache\_class\_cache\_form'] = 'DrupalDatabaseCache';**

**// The 'cache\_field' bin must be transactional.**

**$conf['cache\_class\_cache\_field'] = 'DrupalDatabaseCache';**

**# cron jobs**

**# daily**

**# sudo apt update**

**#**

**# weekly**

**# sudo apt upgrade**

**# check for drupal updates**

**# composer self-update**

**# pull repos**

**#**

**# manually, monthly**

**# sudo apt dist-upgrade**

**# sudo do-release-upgrade**

**#**

**# useful commands**

**# tar -xzf source\_archive.tar.gz /destination/directory/**

**# tar -czf destination\_archive.tar.gz /source/directory/**