

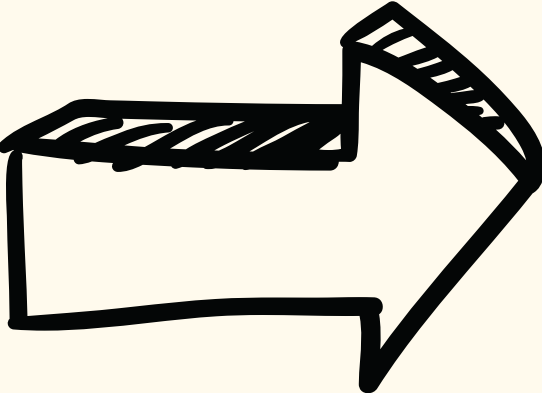
Self Hosting Matrix Server Challenges & Solution

From Domain Regn to
Accessing Your Matrix

COMPLETE PROCESS

BUYING A DOMAIN

GETTING PUBLIC IP



INSTALL
MATRIX
SERVER

INSTALL
POSTGRES

INSTALL
CADDY



SERVER HARDWARE

INSTALLING UBUNTU



REVERSE PROXY
CREATION

TESTING
WITH
ELEMENT.IO

CREATING
USERS ON
MATRIX SERVER

EASY

BUYING A DOMAIN

SERVER HARDWARE

INSTALLING UBUNTU

**CREATING USERS ON MATRIX
SERVER**

CONFUSING

GETTING PUBLIC IP

- **CREATING A RECORD**
- **CNAME RECORD**

REVERSE PROXY CREATION

- **CADDY**
- **NGINX ???**

CHALLENGE

**INSTALLING MATRIX
SERVER**

- **DOCKER**
- **DIRECT INSTALL**
- **ANSIBLE INSTALL**

[https://matrix-
org.github.io/synapse/latest/](https://matrix-org.github.io/synapse/latest/)

INSTALLING POSTGRES

- **CREATING USER**
- **DATABASE**
- **SETTING UP
CONNECTIVITY**

INSTALLING CADDY

- **DEFAULT KEYRING
PERMISSION**

BUYING DOMAIN

DOMAIN IS THE NAME OF YOUR SERVER THAT WILL BE USED BY OTHERS TO CONNECT

GIVEN BY THE VENDOR

EX:

- **HOMESERVER.CO**
- **SUPERMATRIX.ORG**
- **MYMATRIX.COM**
- **SHINYSERVER.IN**

SUBDOMAIN IS PART THAT COMES BEFORE YOUR DOMAIN NAME

EX:

- **MATRIXAT.HOMESERVER.CO**
- **TESTING.SUPERMATRIX.ORG**
- **LETSTALK.MYMATRIX.COM**
- **TOGETHER.SHINYSERVER.IN**

CREATED BY YOU ON

- **CPANEL**
- **HOSTING PANEL**
- **HOSTING ZONE EDITOR**
- **NEED TO UPDATE NAME-SERVERS OF HOSTING PROVIDER**

SERVER HARDWARE

MULTIPLE WAYS:

- OWN SERVER/ LAPTOP
- CLOUD VIRTUAL SERVER
- CLOUD BARE METAL SERVER
- VIRTUAL PRIVATE SERVER

INSTALLING UBUNTU

MULTIPLE WAYS:

- INSTALL MANUALLY
- USE THE CLOUD PROVIDED IMAGE

PUBLIC IP

MULTIPLE WAYS:

- BUY STATIC IP
- ALLOCATE CLOUD IP

CREATING DNS RECORDS:

- ASSIGNING SUB DOMAIN TO IP ADDRESS
- ASSIGNING CANONICAL NAME TO SUB DOMAINS

TESTING DNS RECORDS:

- PINGING DOMAIN & SUBDOMAIN
- CONNECTING OVER SSH

INSTALLING SERVERS

- PREFER DIRECT INSTALL OVER DOCKER
- MATRIX SYNAPSE KEY-RING / APT UPDATES
- UPDATING THE HOMESERVER.YAML

- POSTGRES SQL VERSION NOT PRESENT IN APT CACHES

- ISSUE WITH CADDY KEYRING PERMISSION IN UBUNTU 20.04
- PROVIDING CORRECT CONFIG IN CADDYFILE

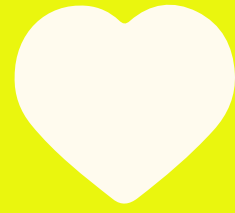
RESTARTING SERVICES

- ALWAYS RESTART THE SERVICES WHEN THE CONFIGURATION FILES ARE CHANGED.

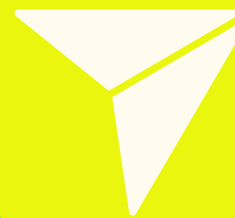
USE SUDO SYSTEMCTL RESTART *****.SERVICE**

FREQUENTLY USED COMMANDS:

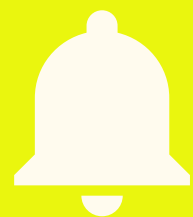
- SUDO APT-GET UPDATE / INSTALL
- WGET --QUIET -O
- SUDO -U POSTGRES BASH
- PSQL -U POSTGRES -H LOCALHOST -D SYNAPSE
- SSH USER@SERVER_IP
- VIM
- PING



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DEEP DIVE INTO MATRIX CLIENT & FEATURES