The Paoblem: -

Objuscate a public facing self hosted seawer that suns multiple different applications when imbound and outbound traffic is generated.

(A round 20 TB bandwith has been transferred till now.)

The Solution:

Reverse Provies! I choose NGINX as it offered Load Balancing, Performance optimisation and Sheribility in built

Next there is a diagram of the setup and my though process. I

Home-Server (Isolated) Router -Has port 44690 Open Blocks all connections Firlwall encept Business Brong P Nginn (Paony Partocolon) :446906 Lustens on 192 168.01:222 passes to DHKPIP 192 168.01;2222 Actual Server what ppe see Cloud - Prony (Public) people (Nginn Public 1:2222 Access Home SeaverIP: 44690 Claud. IP * The reason why traffic is int directly sont to actual searce is due to it being a doctee container which is configured in way that fieurall rules if changed weill break the container

*If you noticed that the Business - Paony has the same post as the Home Server, it is intertional and used for objuscation Nove, the problem.

As it is a self host AKA it is hosted at someones home due to security seasons. The IP changed quite frequently.

(Static IP was not possible)

ANSIBLE!!, Nous if you are asking what is ansible, then in a mutshell it is a OPEN-Source automation tool that automates Various manual IT processes.

The Approach,

-> Set up ansible envoirment

-> Setting up SSH Keys -> The Playbook!!

Runs a (Step 1: Grathers facts

Self J Step 2: Grets the current IP

Address of the machine

Machine Step 3: Sauces it as a fact

King a Step 4: Grathes facts

Cloud Step 5: Ensus all packages crist

190my 1 Step 6: Grets the IP of self

host machine and sowes it

Step 7-10: Updates all configuration

files with new IP's
Step II: Reloads NGINX

#If you took note of step 5. The playbook is designed with the though brocess that if the promy machine is changed, no extern setup is required extern setup is required Pricept setting up SSH Keys!

A pretty neat détail hun !!