**FREEIPA Server Installation Steps**

**How to install FREEIPA Client in Linux Server**

**Step 1 :**

Create a linux server with MINIMAL configuration CPU – 2Cpu’s RAM – 4GB – Storage – 50GB

**Step 2 :**

Yum update -y

**Step 3 :**

# nmtui

Its pop up NetworkManager GUI

Select option: Edit a Connection – eg: ens192 – edit

Select Manual:

IPv4 – 10.0.6.160,

Gateway – 10.0.3.1,

Add FREEEIPA Server ip address : 10.0.6.159,

DNS Server – 10.0.3.1,

Search Domain : 10.0.6.159.

Select OK to save the configuration.

**Step 4 :** Set system hostname

Eg : freeipaclient.tayana.in

Select ok to save the configuration

**Step 5** : Command to check the hostname along with OS name and kernel version

cmd : # hostnamectl

**Step 6** : The following command to check the ip adderess of the specific eth port

# ip a | grep ens192

**Step 7** : View the resolv.conf file by cat command to check the DNS configuration

# cat /etc/resolv.conf

**Step 8** : We have to edit the file to map host names to ip addresses

# vim /etc/hosts

Need to type inside the file

10.0.1.159 freeipaserver.tayana.in

10.0.1.160 freeipaclient.tayana.in

Save and exit

**Step 9** : we have to install some packages and for that we need yum/dnf and epel repo

**Step 10** : To install the IPA client pacakages

#dnf install ipa-client -y

Complete!

**Step 11 :** Type the following command to configure IPA client with home directory privilege

#ipa-client-install –mkhomedir

**Step 12** : Enter domain name and press enter key

#tayana.in

**Step 13** : Type a Server name and press enter key

#freeipaserver.tayana.in

**Step 14** : Proceed with fixed value

# Yes enter

**Step 15** : Chrony type no need enter NO

#no

**Step 16** : Continue configure with these value “YES”

# YES

**Step 17** : IPA Administrative user name which is “admin” and its password

# admin

# XXXXXXXXX

**Step 18**: Type kinit admin it will allow us to use IPA tools

# kinit admin

It will ask password : XXXXXXXXX

**Step 19** : Type klist to check the tickets expiry information

#klist

**Step 20** : Type ipa user-find command to view tge details of all IPA users

#ipa user-find

**Step 21** : To create a new user type following command

#ipa user-add manojkumar --first=manoj -–last=kumar - - password - -email=manoj.kumar@tayana.in

Enter the password : XXXXXXXXXXXXX

IPA user is created successfully as per the configuration

**Step 22** : The default login shell is /bin/sh we will change to /bin/bash for all new ipa users

Login to specific user

#su – manojkumar

Type PWD to check the path

/home/manojkumar

This user has its own home directory

Type EXIT

**Step 23** : Type the following command to install “authconfig” feature which will be required

#dnf install authselect-compat-1.2.3-7.el9.x86\_64 -y

Complete!

**Step 24 :** Type the following command to change the default shell to /bin/bash

#ipa config-mod - - dafaultshell=/bin/bash

**Step 25** : Type following command

#authconfig –enablemkhomedir - - update

**Step 26** : Type IPA user find command

#ipa user-find

Check once the login shell

If its not change the shell then type manual delete

#ipa user-del manojkumar

**Step 27** : Now create a user account

# ipa user-add manojkumar --first=manoj -–last=kumar - - password - -email=manoj.kumar@tayana.in

Enter the password : XXXXXXXXXXXXX

Now this time it has change to default login shell as per our configuration

Login Shell : /bin/bash

Type : firefox or google &

In CLI mode we were logged in the admin IPA user account.