**FREEIPA Client Installation Steps**

**How to Install FREEIPA Client on a Linux Server**

**Step 1:**

Create a Linux server with the following minimal configuration:

* **CPU**: 2 CPUs
* **RAM**: 4GB
* **Storage**: 50GB

**Step 2:**

Update the system:

#yum update -y

**Step 3:**

Configure the network using the nmtui tool:

1. Run the command:

#nmtui

This will open the NetworkManager GUI.

1. Select **Edit a Connection** (e.g., ens192) and edit the connection.
2. Set the following details under the **Manual** section:
   * **IPv4 Address**: 10.0.X.XXX
   * **Gateway**: 10.0.X.1
   * **FREEIPA Server IP Address**: 10.0.X.159
   * **DNS Server**: 10.0.X.1
   * **Search Domain**: 10.0.X.159
3. Click **OK** to save the configuration.

**Step 4:**

Set the system hostname:

* Example: freeipaclient.example.in
* Save the configuration.

**Step 5:**

Check the hostname, OS name, and kernel version:

#hostnamectl

**Step 6:**

Verify the IP address of the specific Ethernet port:

#ip a | grep ens192

**Step 7:**

Check the DNS configuration:

#cat /etc/resolv.conf

**Step 8:**

Edit the /etc/hosts file to map hostnames to IP addresses:

#vim /etc/hosts

Add the following lines:

10.0.X.159 freeipaserver.example.in

10.0.X.160 freeipaclient.example.in

Save and exit.

**Step 9:**

Install required packages using yum or dnf.

**Step 10:**

Install the IPA client packages:

#dnf install ipa-client -y

**Step 11:**

Configure the IPA client with home directory privileges:

#ipa-client-install --mkhomedir

**Step 12:**

Enter the domain name:

#example.in

**Step 13:**

Enter the server name:

#freeipaserver.example.in

**Step 14:**

Proceed with the fixed value:

#Yes

**Step 15:**

When prompted for Chrony configuration, select "NO":

#no

**Step 16:**

Continue with the provided configuration:

#YES

**Step 17:**

Enter the IPA administrative username and password:

#admin

#<password>

**Step 18:**

Initialize the admin user for IPA tools:

#kinit admin

**Step 19:**

Check ticket expiry information:

#klist

**Step 20:**

View details of all IPA users:

#ipa user-find

**Step 21:**

Create a new IPA user:

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

Enter the password when prompted.

**Step 22:**

Change the default login shell for all new IPA users:

1. Login as the specific user:

#su - manojkumar

1. Verify the home directory:

#pwd

Output: /home/manojkumar

1. Exit the session:

exit

**Step 23:**

Install the authconfig package:

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

**Step 24:**

Set the default shell to /bin/bash:

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

**Step 25:**

Enable home directory creation:

#authconfig --enablemkhomedir --update

**Step 26:**

Verify user shell settings:

#ipa user-find

If the shell is incorrect, delete the user and recreate:

#ipa user-del manojkumar

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

**Step 27:**

Confirm the login shell and verify:

* Login shell should now be /bin/bash.
* Test using CLI:

#su - manojkumar

#firefox &