

SETTING IPA SERVER ON UBUNTU

[centralized authentication system]

steps for installing ipa server:

step1: setting up a static ip address for the server and the host

1) In this lab the server address is

ip: 192.168.0.102
gateway: 192.168.0.1
dns: 8.8.8.8

and the client address

ip: 192.168.0.103
gateway: 192.168.0.1
dns: 192.168.0.102 [server address]

restart the connection to take effect:

5) nmcli device down <NIC/device> / ifdown <NIC>

6) nmcli device up <NIC/device> / ifup <NIC>

[important note if you give the client dns to the server address you have to install packages from local repository unless you have a second nic connected to the internet because in order to work with online repository you need a public dns like 8.8.8.8 but if you use the local repo in the client its all fine]

[see the ip address section for the process of giving a static ip address]

step2: set a static host name of the server using ‘hostnamectl’ command

[server]

1) => hostnamectl set-hostname “ipa.it.local”

2) => exec bash

step2: edit the “/etc/hosts” of the server

=> vim /etc/hosts

[add this line

192.168.0.102 ipa.it.local ipa

192.168.0.103 client1.it.local client1

]

step4: test with ping commnad

1)=> ping ipa.it.local

step5: update the server repository

1) =>apt update -y

step(addional): reboot the system

1) =>reboot

step6: install “rng-tools” packages in server machine

rng tools is basically used got cryptography

=>apt install rng-tools -y

step7: configure rng-tools

=>vim /etc/default/rng-tools

set the input source for random random data by adding line

HRNGDEVICE=/dev/urnadom

step8: Enable and start rng-tools

=>systemctl enable rng-tools

=>systemctl start rng-tools

step9: install “free-Ipa” packages in server machine

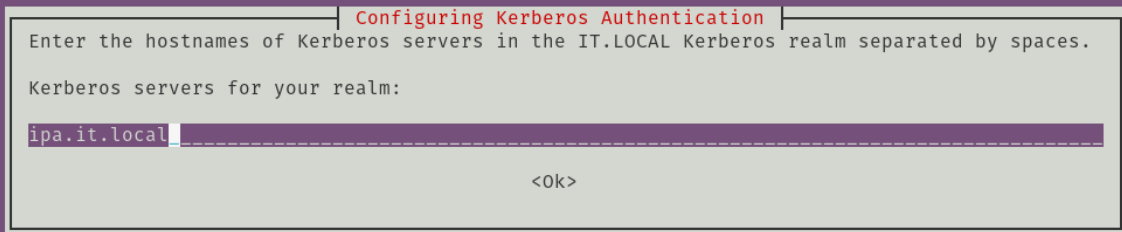
[server]

1) => **apt install freeipa-server -y**

it will prompt you with this options

1) Enter the Hostname for kerberos server

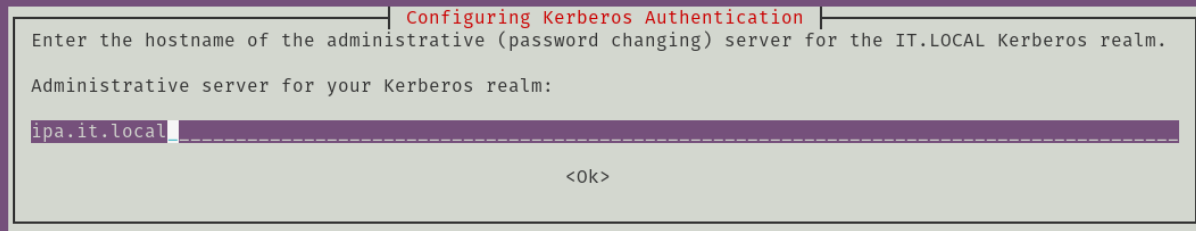
=>**ipa.it.local**



2)

Enter administrative server for kerberos realm

=>**ipa.it.local**



step9: install IPA server in server machine

[server]

1) => ipa-server-install

8-1: Do you want to configure integreted DNS?

=>no

8-2: Server Host name [ipa.test.system]

=>[Enter]

8-3: Please confirm Domain name [test.system]?

=>[Enter]

8-4: Please provide a realm name [TEST.SYSTEM]?

=>[Enter]

8-5: Directory manager password?

=><give_a_password>

example: admin@ipa

8-6: IPA admin Password?

=><give_a_password>

example: admin@redhat

8-7:Continue to configure the system with these values?
=>yes

step9: Enable ufw

[server]

1) =>ufw enable

step10: allow tcp port

**=> for i in 80 443 389 636 88 464;do sudo ufw allow proto tcp
from any to any port \$i;done**

step11:allow the udp port

**=> for i in 88 464 123;do sudo ufw allow proto udp from any to
any port \$i;done**

step12: restart the ufw

=>ufw reload

**step13: initialize the admin user [varify weather the admin user
get token from the kerberos] [you can login with just the user
and password but to login with kerberos you have to issue the
command]**

[server]

1)=> kinit admin

[password:] [same password for installation during FreeIPA]

2)=> klist

step12: reboot the system again

2)=> reboot

step16: Go to the administration page and login with username and password
[server]

username: [admin](#)

password: <admin_password>

[go to web browser to url “<http://ipa.test.system>”]

step16: create a user in the administration page
[server]

username: <give a username> / ex: ipa1

Firstname: ipa

lastname : user1

password : <give_password> /ex: redhat@ipa1