

Nagios

LAB SETUP

Machine	Purpose	Example IP
VM-1	Nagios XI Server	192.168.80.130
VM-2	Ubuntu Client (Host)	192.168.80.131

- 👉 Both VMs **same network (NAT / Host-Only)** me hone chahiye
 - 👉 Internet required
-

PART 1: Nagios XI Installation (Ubuntu 22.04)

STEP 1 : Update System

```
sudo apt update && sudo apt upgrade -y  
sudo reboot
```

STEP 2 : Install Required Packages

```
sudo apt install -y \  
apache2 php php-cli php-gd php-curl php-mbstring php-xml php-mysql \  
libapache2-mod-php \  
mysql-server \  
wget unzip gcc make \  
openssl libssl-dev \  
snmp snmpd \  
net-tools
```

STEP 3 : Start Services

```
sudo systemctl enable apache2 mysql  
sudo systemctl start apache2 mysql
```

STEP 4 : Download Nagios XI Installer

```
cd /tmp  
wget https://assets.nagios.com/downloads/nagiosxi/install.sh  
chmod +x install.sh
```

STEP 5 : Install Nagios XI (IMPORTANT)

```
sudo ./install.sh
```

STEP 6 : Access Web Interface

Find IP:

```
ip a
```

Browser me open:

```
http://192.168.80.130/nagiosxi
```

- ✓ Set Admin user + password
- ✓ Login successful → Dashboard open

 Nagios XI installed

🔥 PART 2: Ubuntu Linux Host (Client) Setup using NCPA

STEP 7 : NCPA Install on Ubuntu Client

On Ubuntu Client (192.168.80.131):

```
cd /tmp  
wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.amd64.deb  
sudo dpkg -i ncpa-latest.amd64.deb
```

If Dependency error:

```
sudo apt --fix-broken install -y
```

STEP 8 : Configure NCPA Token

```
sudo nano /usr/local/ncpa/etc/ncpa.cfg
```

Find:

```
community_string = mytoken
```

Change to:

```
community_string = your_password
```

Save → Exit

STEP 9 : Start NCPA Service

```
sudo systemctl restart ncpa_listener  
sudo systemctl enable ncpa_listener  
systemctl status ncpa_listener
```

Status: Active (running) 

STEP 10 : Allow Firewall (Client)

```
sudo ufw allow 5693/tcp  
sudo ufw reload
```

STEP 1 1 : NCPA Browser Test (VERY IMPORTANT)

Browser me open:

<https://192.168.80.131:5693>

 SSL warning → Advanced → Proceed

Login:

- Username: `ncpa`
- Password: `ncpa123`

Dashboard open = NCPA OK 

🔥 PART 3: Linux Host Add via Nagios XI Wizard

STEP 1 2 : Linux Server Configuration Wizard

Nagios XI dashboard →

Configure → Run a Configuration Wizard → Linux Server

STEP 1 3 : Wizard – Step 1 (NCPA Setup)

Fill exactly:

Field	Value
Address	192.168.80.131
Port	5693
Do not verify SSL	<input checked="" type="checkbox"/>
Token	ncpa123
System	Ubuntu

Click **Next**

STEP 1 4 : Select Services

Tick these:

- ✓ Ping
- ✓ CPU Usage
- ✓ Memory Usage
- ✓ Disk Usage
- ✓ Network Interface
- ✓ Logged-in Users

Next → Finish → **Apply Configuration**

🔥 PART 4: Verification

Go to:

[Home](#) → [Hosts](#)

You should see:

- Ubuntu Host → UP
- CPU / Memory / Disk → OK

 **Linux Host Successfully Added**

🔒 Ports Summary (Interview MUST)

Service	Port
Nagios XI Web	80

Service	Port
NCPA	5693
Ping	ICMP

✗ Common Errors & Fixes

✗ Could not connect to agent

- ✓ Token mismatch
- ✓ Firewall blocked
- ✓ NCPA not running

Fix:

```
sudo systemctl restart ncpa_listener
```