Virtual box installation

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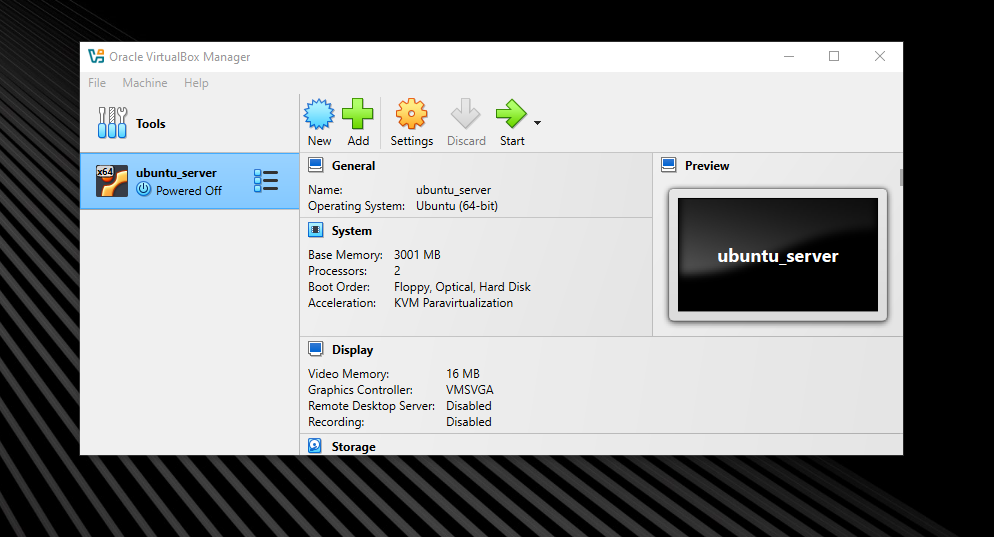
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Ubuntu server installation

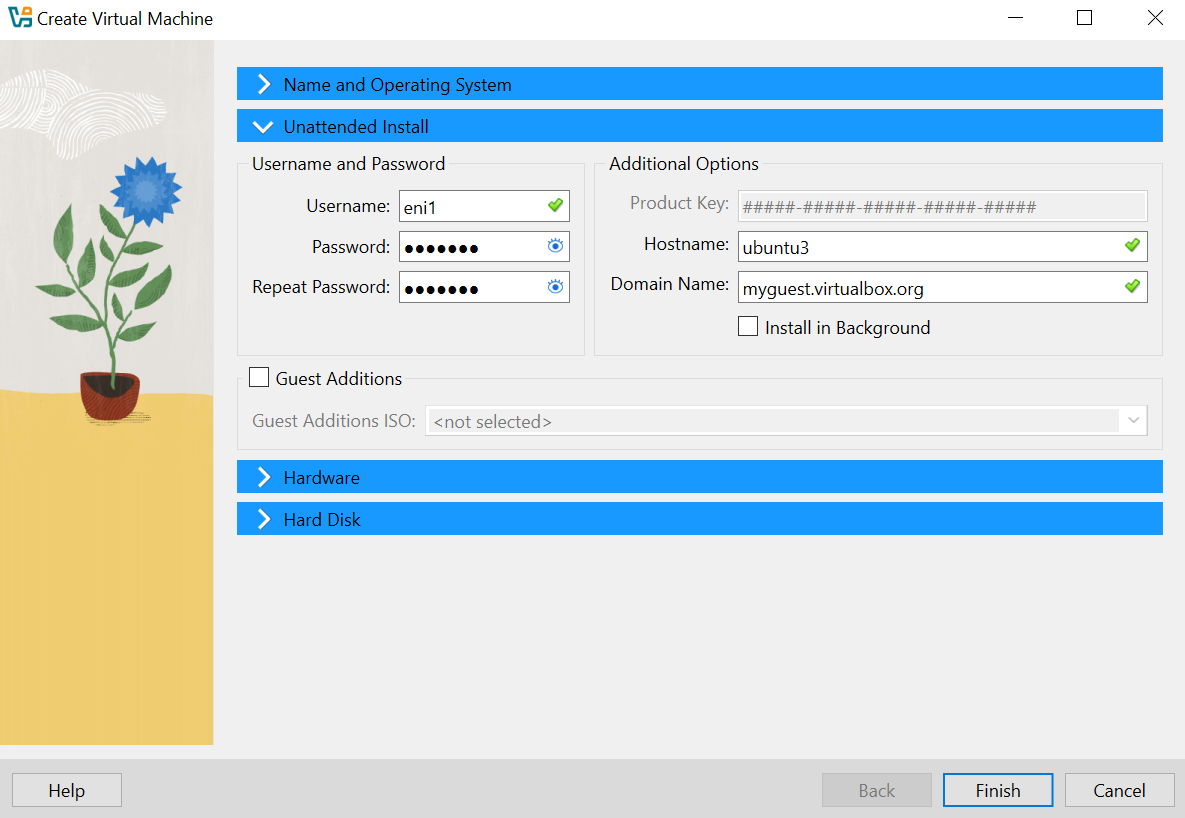
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Installing ubuntu desktop on vm

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Openssh

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Also add the following commands

Sudo systemctl enable ssh

Sudo systemctl start ssh

To check if it works

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Finding the ip address A screenshot of a computer program

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Connecting via ssh to my vm from command prompt

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Web server

Run these commands

sudo apt install apache2

sudo systemctl enable apache2

sudo systemctl start apache2

how to check if it runs

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How to access the server

Enter <http://ipaddr>

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Configure firewall to allow http/https traffic

sudo ufw allow 'Apache'

# or more specifically:

sudo ufw allow 80/tcp

sudo ufw allow 443/tcp

if you want to access it using https

sudo a2enmod ssl

sudo systemctl restart apache2

sudo a2ensite default-ssl

sudo systemctl reload apache2

ftp server

sudo apt install vsftpd

sudo systemctl enable vsftpd

sudo systemctl start vsftpd

how to configure it

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After saving the file execute this command

sudo systemctl restart vsftpd

ftpuser

Bubulinuta1!

Assign user permissions to upload files

sudo mkdir /home/ftpuser/ftp

sudo chown ftpuser:ftpuser /home/ftpuser/ftp

sudo chmod 700 /home/ftpuser/ftp

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Dhcp server

sudo apt install isc-dhcp-server

sudo systemctl enable isc-dhcp-server

sudo systemctl start isc-dhcp-server

open the configuration file sudo nano /etc/dhcp/dhcpd.conf

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Edit the default configuration for dhcp

sudo nano /etc/default/isc-dhcp-server

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The network interface name can be found with ip a command

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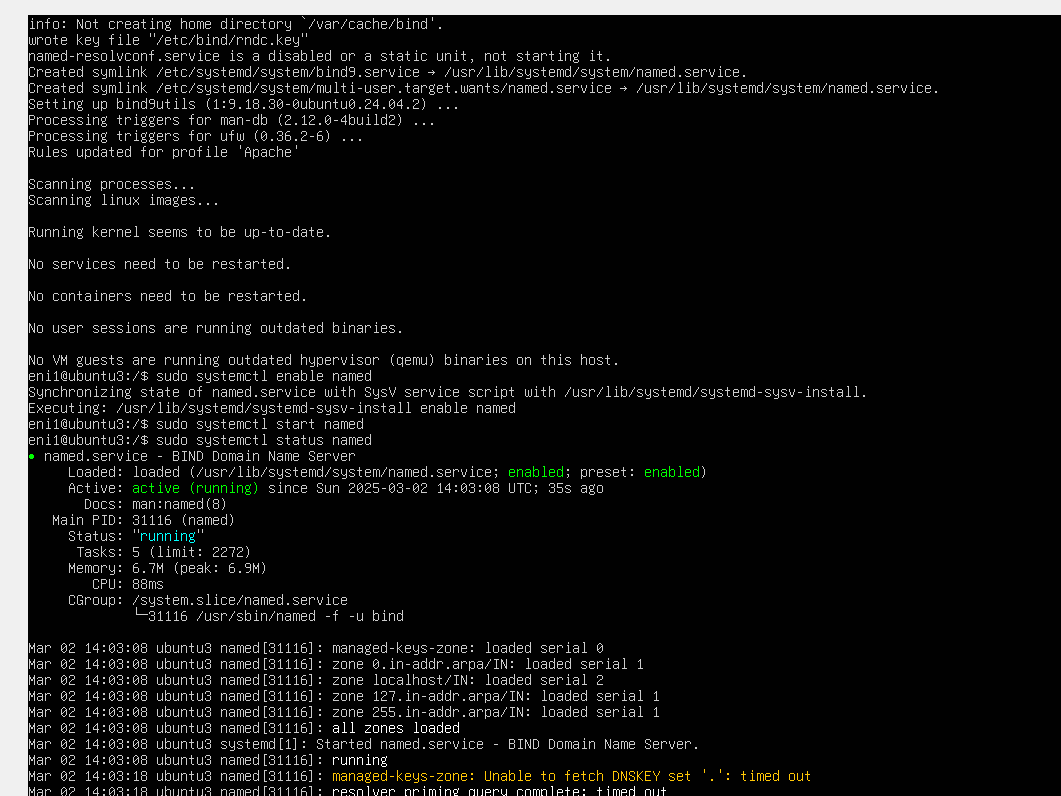
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Dns server

sudo apt install bind9 bind9utils

sudo systemctl enable named

sudo systemctl start named



Configuration

sudo nano /etc/bind/named.conf.local

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sudo nano /etc/resolv.confA screenshot of a computer

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mail server

sudo apt install postfix

sudo systemctl enable postfix

sudo systemctl start postfix

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Sudo apt install mailutils

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AI-generated content may be incorrect.Then I used the command **sudo cat /var/mail/root** tat uses **sudo** to run the

**cat** command with superuser privileges, allowing it to read the contents of

the mail file for the **root** user, located at **/var/mail/root** . This displays the

**root** user's email messages stored on the system directly in the terminal to

see that the email was sent.

Pop3/imap

sudo apt install dovecot-core dovecot-imapd dovecot-pop3d

sudo systemctl enable dovecot

sudo systemctl start dovecot

configuration

sudo nano /etc/dovecot/dovecot.conf

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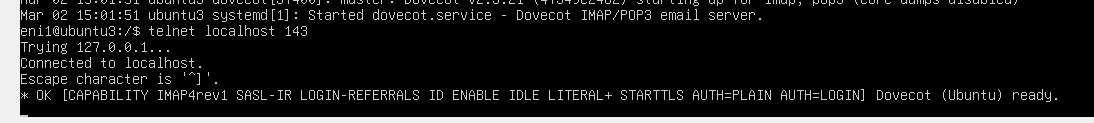
sudo mkdir -p /home/ftpuser/Maildir

sudo chown -R ftpuser:ftpuser /home/ftpuser/Maildir

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imap

pop3

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Pop3s/imaps

sudo apt install dovecot-core dovecot-imapd dovecot-pop3d

squid proxy

sudo apt install squid

sudo systemctl enable squid

sudo systemctl start squid

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* Change the configuration file such that Squid will allow clients to connect to it:



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Docker

sudo apt install apt-transport-https ca-certificates curl software-properties-common

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb\_release -cs) stable"

sudo apt update

sudo apt install docker-ce

sudo systemctl enable docker

sudo systemctl start docker

**Administration Tasks**

**Monitor Services Availability**

Monit

sudo apt install monit

sudo systemctl enable monit

sudo systemctl start monit

uncomment this

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Monitoring -htop

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Performance Testing

sudo apt install stress sysbench

sudo apt install htop iotop

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Log analyzer

sudo apt install logwatch goaccess

run this command sudo logwatch --detail high --range yesterday --service all --format text

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Backup tasks

sudo apt install rsync backuppc A screenshot of a computer

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A screenshot of a computer

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A screenshot of a computer program

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**Firewall (UFW - Uncomplicated Firewall)**

sudo apt install ufw

sudo ufw allow ssh

sudo ufw allow http

sudo ufw allow https

sudo ufw enable

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Brute Force Detection/Prevention (Fail2ban)

sudo apt install fail2ban

sudo systemctl enable fail2ban

sudo systemctl start fail2ban

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