

Installation Manual

Virtualization S/W – VMware

Host OS – Windows

Guest OS – Ubuntu

Installation Sequence

Part 1 – Install VMware

Part 2 – Install Ubuntu

Part 3 – Install Development
Libraries on Ubuntu

Part 1 - Install VMware

1. <http://www.vmware.com/products/ws/>
2. Download installer.
3. Run installer file.



VMware
Workstation 6.5

Welcome to the Installation Wizard for VMware Workstation

The installation wizard will install VMware Workstation on your computer. To continue, click Next.

WARNING: This program is protected by copyright law and international treaties.

< Back

Next >

Cancel

Setup Type



Choose the setup type that best suits your needs.

Please select a setup type.

Typical



Typical program features will be installed.

Custom



Choose which program features you want installed and where they will be installed. Recommended for advanced users.

< Back

Next >

Cancel



Destination Folder

Click Next to install to this folder, or click Change to install to a different folder.



Install VMware Workstation to:

C:\Program Files\VMware\VMware Workstation\

Change...

< Back

Next >

Cancel



Configure Shortcuts

Creates program shortcuts



Create shortcuts for VMware Workstation in the following places:

- Desktop
- Start Menu Programs folder
- Quick Launch toolbar

< Back

Next >

Cancel



Ready to Install the Program

The wizard is ready to begin installation.



Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

InstallShield

< Back

Install

Cancel

Installing VMware Workstation



Please wait while the installation wizard installs VMware Workstation. This may take several minutes.

Status:

< Back

Next >

Cancel



Registration Information



(optional) You can enter this information later.

User Name:

Company:

Serial Number: (XXXXXX-XXXXXX-XXXXXX-XXXXXX)



VMware
Workstation 6.5

Installation Wizard Completed

The installation wizard has successfully installed VMware Workstation. Click Finish to exit the wizard.

< Back

Finish

Cancel



VMware Workstation



You must restart your system for the configuration changes made to VMware Workstation to take effect. Click Yes to restart now or No if you plan to restart later.

Yes

No

<http://www.ubuntu.com/getubuntu/download>

Save file ubuntu-8.04.2-desktop-i386.iso

Download an Ubuntu CD

Part 2 - Install Ubuntu



Desktop Edition
(currently selected)



Server Edition

Choose a version

- Ubuntu 8.10 (the latest version):** Includes the latest enhancements and is maintained until 2010
- Ubuntu 8.04 LTS:** Released April 2008 and maintained until April 2011 – ideal for large deployments

Choose a download location near you

United States Argonne National Laboratory ▼

Begin Download

After your download begins you'll be given additional instructions on how to create and use your Ubuntu CD.

Custom Options

Only change these if you know you need different values.

Computer Architecture

- 32bit version:** This works with most computers
- 64bit version:** May provide additional capabilities to computers that are able to use 64bit software

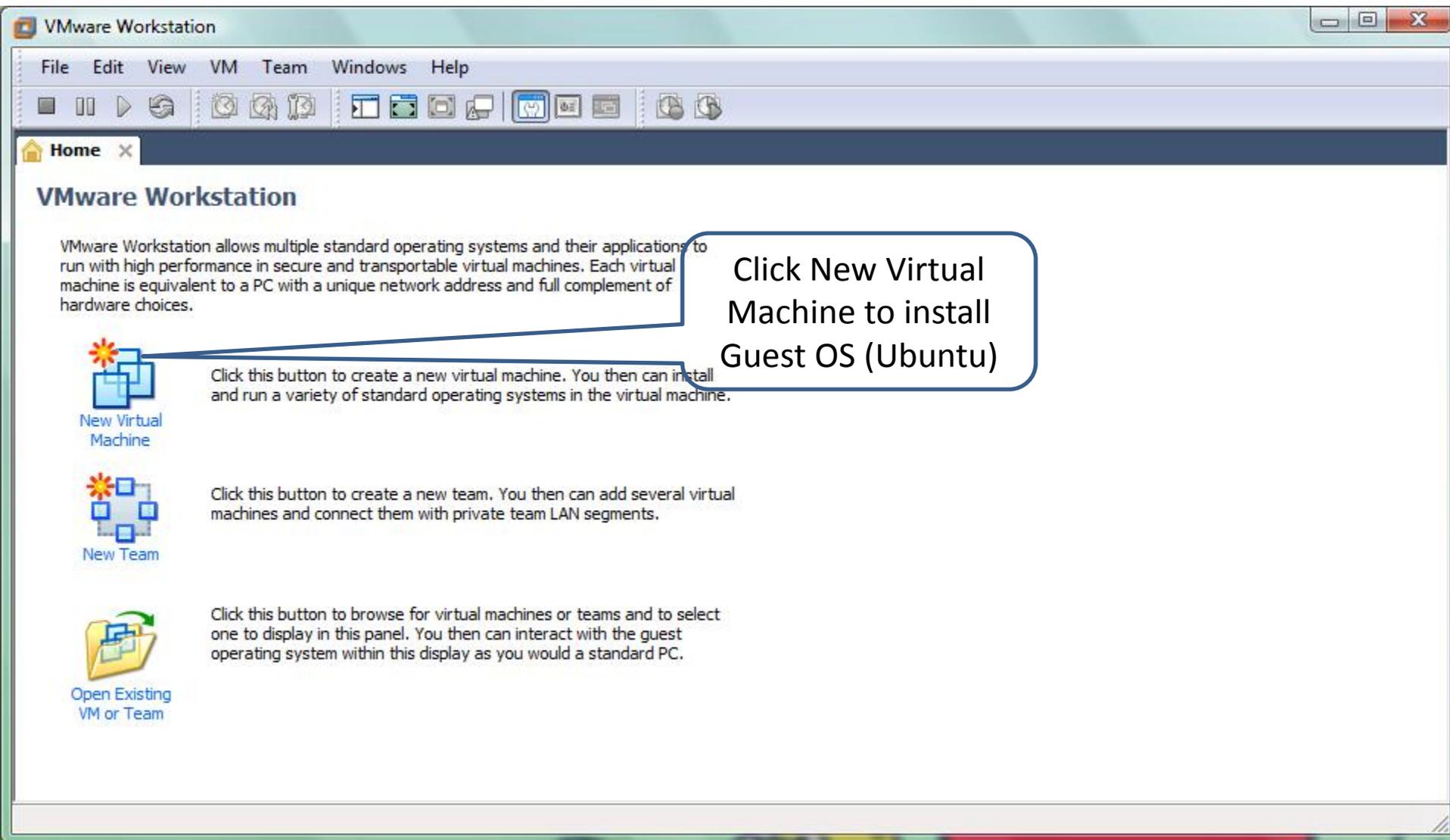
What do I need to create and use my Ubuntu CD?

- A blank CD and the ability to "burn" blank CDs
- A modern Intel or AMD compatible computer
- At least 256MB of RAM
- [Installation requirements](#) »

Even more options

- [Text based "alternate installer" installation disk](#)
- [Bit Torrent](#)
- [The Windows based "Wubi" installer](#)
- [DVD images containing additional languages](#)

Run VMware to get this screen.





VMware
Workstation 6.5

Welcome to the New Virtual Machine Wizard

What type of configuration do you want?

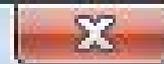
- Typical (recommended)**
Create a Workstation 6.5 virtual machine in a few easy steps.
- Custom (advanced)**
Create a virtual machine with advanced options, such as a SCSI adapter type, virtual disk type and compatibility with older VMware products.

Help

< Back

Next >

Cancel



Guest Operating System Installation

A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:

Installer disc:

 DVD/CD-RW Drive (D:) ▼

Browse and select the Ubuntu .iso file

Installer disc image file (iso):

sktop\tempDownload\ubuntu-8.04.2-desktop-i386.iso ▼

Browse...

 Ubuntu 8.04 detected.

This operating system will use Easy Install. [\(what's this?\)](#)

I will install the operating system later

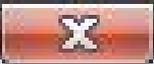
The virtual machine will be created with a blank hard disk.

Help

< Back

Next >

Cancel



Easy Install Information

This is used to install Ubuntu.

Personalize Linux

Full name:

User name:

Password:

Confirm:

IMPORTANT:
Remember the
UserName and
Password. You would
need it to log into
Ubuntu.

Help

< Back

Next >

Cancel

New Virtual Machine Wizard



Name the Virtual Machine

What name would you like to use for this virtual machine?

Virtual machine name

Location

The default location can be changed at Edit > Preferences.



Specify Disk Capacity

How large do you want this disk to be?

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.

Maximum disk size (GB):

Recommended size for Ubuntu: 8 GB

- Store virtual disk as a single file
- Split virtual disk into 2 GB files

Splitting the disk makes it easier to move the virtual machine to another computer.

 [Pocket ACE size calculator](#)

Help

< Back

Next >

Cancel

New Virtual Machine Wizard



Ready to Create Virtual Machine

Click Finish to create the virtual machine and start installing Ubuntu and then VMware Tools.

The virtual machine will be created with the following settings:

Name:	Ubuntu8.04
Location:	C:\Users\Manish\Documents\Virtual Machines\Ubu
Version:	Workstation 6.5
Operating Syst...	Ubuntu
Hard Disk:	8 GB
Memory:	512 MB

[Customize Hardware...](#)

Power on this virtual machine after creation

< Back

Finish

Cancel

Ubuntu8.04 - VMware Workstation

File Edit View VM Team Windows Help

Home x Ubuntu8.04 x

Ubuntu8.04

State: Powered off

Guest OS: Ubuntu

Location: C:\Users\Manish\Documents\Virtual Machines\Ubuntu8.04\Ubuntu8.04.vmx

Version: Workstation 6.5 virtual machine

Commands

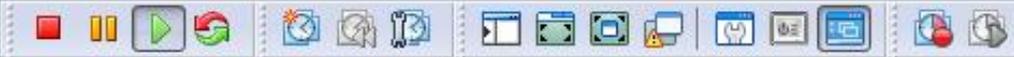
-  [Power on this virtual machine](#)
-  [Edit virtual machine settings](#)
-  [Enable ACE features \(What is ACE?\)](#)

Notes

Type here to enter notes for this virtual machine.

Devices Options

 Memory	128 MB
 Hard Disk (SCSI)	4 GB
 CD/DVD (IDE)	Using file autoinst.iso
 CD/DVD 2 (IDE)	Using file C:\Users\Manish\Desktop\tempDownload\ubuntu-8.04.2-desktop-i386.iso
 Floppy	Using file autoinst.flp
 Network Adapter	NAT
 USB Controller	Present
 Sound Card	Auto detect
 Display	Auto detect
 Processors	1



Starting



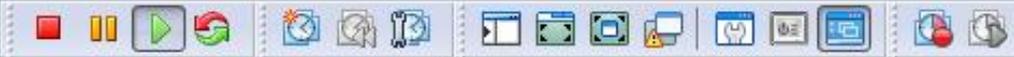
Press F2 to enter SETUP, F12 for Network Boot, ESC for Boot Menu

Click in the virtual screen to send keystrokes

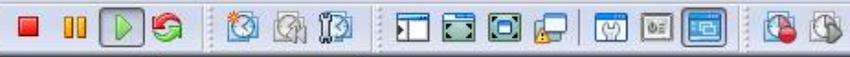
Easy Install is installing Ubuntu. Please wait...

Help





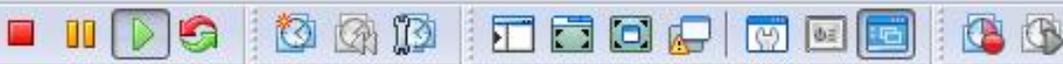
Click in the virtual screen to send keystrokes | Easy Install is installing Ubuntu. Please wait... | Help



Click in the virtual screen to send keystrokes

Easy Install is installing Ubuntu. Please wait...

Help x

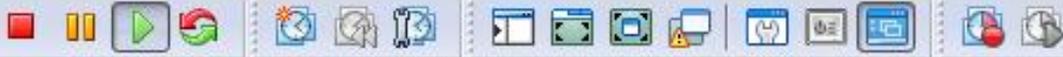


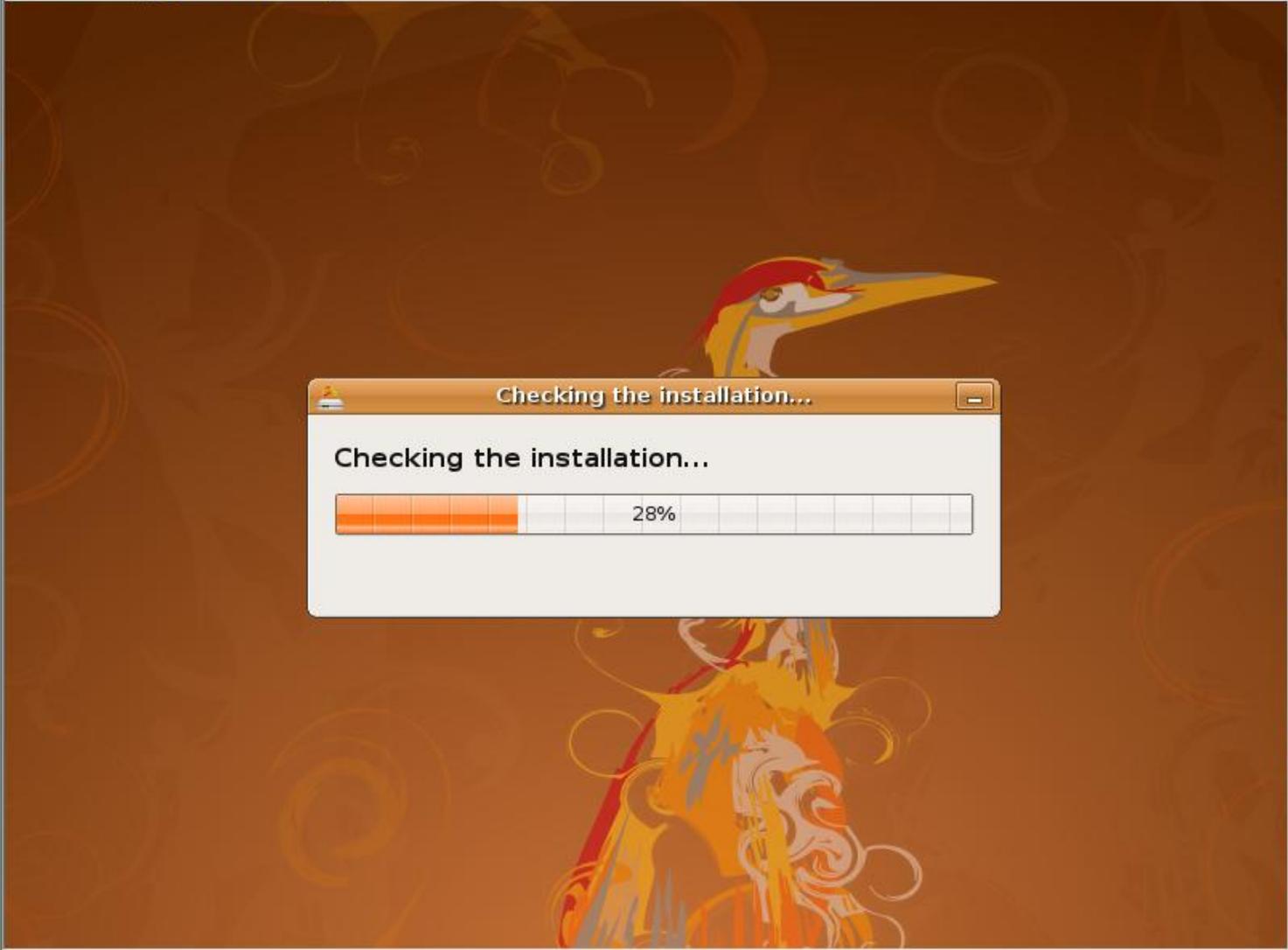
Language

Arabic	Hindi	Português
Беларуская	Hrvatski	Română
Български	Magyarul	Русский
Bengali	Bahasa Indonesia	Sámegiillii
Bosanski	Italiano	Slovenčina
Català	日本語	Slovenščina
Čeština	ქართული	Shqip
Dansk	Khmer	Svenska
Deutsch	한국어	Tamil
Dzongkha	Kurdî	Thai
Ελληνικά	Lietuviškai	Tagalog
English	Latviski	Türkçe
Esperanto	Македонски	Українська
Español	Malayalam	Tiếng Việt
Eesti	Norsk bokmål	Wolof
Euskaraz	Nepali	中文(简体)
Suomi	Nederlands	中文(繁體)
Français	Norsk nynorsk	
Galego	Punjabi (Gurmukhi)	
Gujarati	Polski	
Hebrew	Português do Brasil	

22 s







Checking the installation...

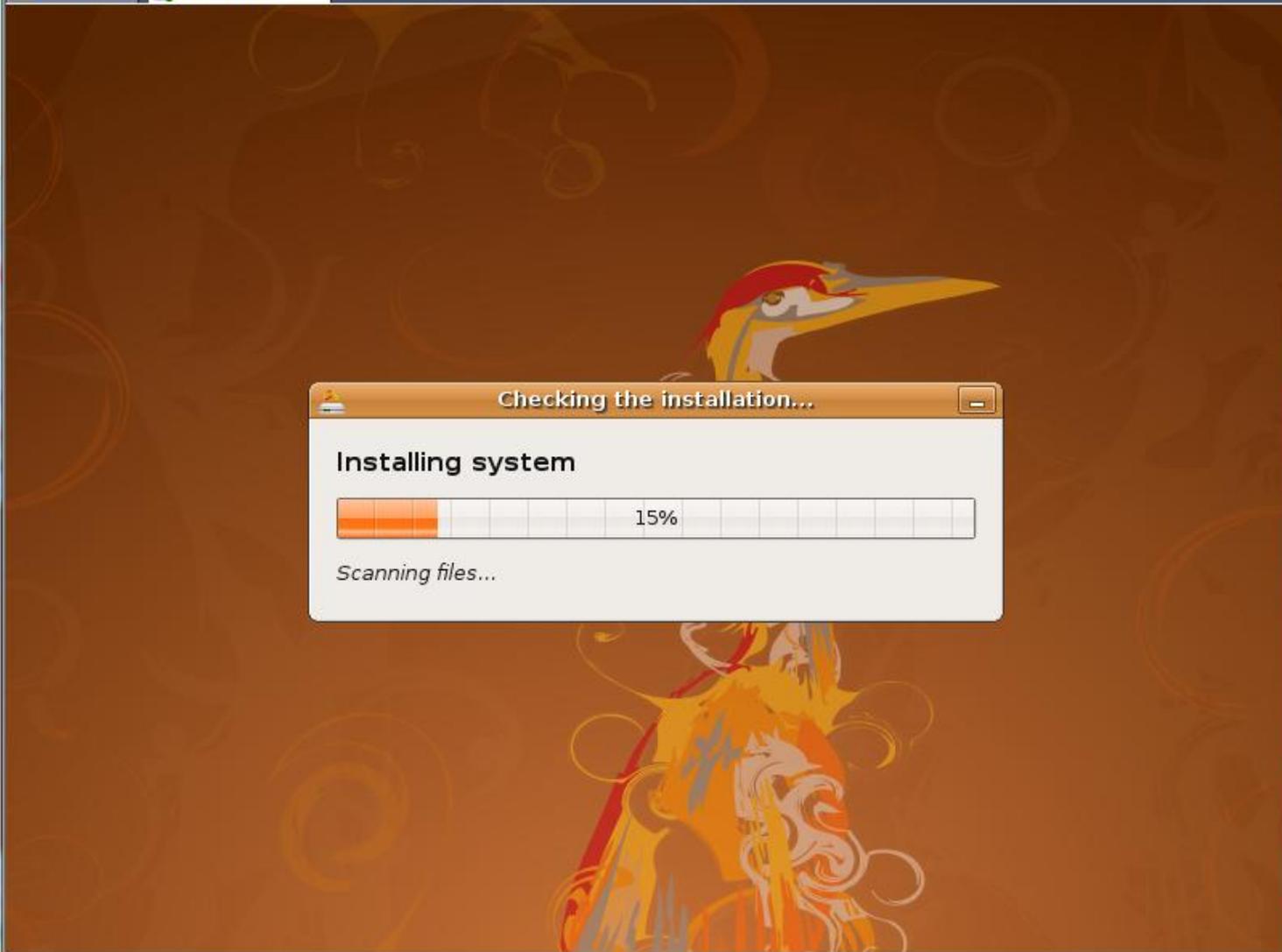
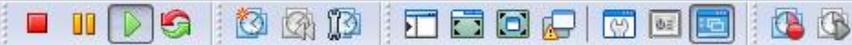
Checking the installation...

Progress bar (28% complete)								28%								
-----------------------------	--	--	--	--	--	--	--	-----	--	--	--	--	--	--	--	--

Click in the virtual screen to send keystrokes

Easy Install is installing Ubuntu. Please wait...

Help



Checking the installation...

Installing system

Progress bar: 15%

Scanning files...

Click in the virtual screen to send keystrokes

Easy Install is installing Ubuntu. Please wait...

Help x

File Edit View VM Team Windows Help



Home x Ubuntu8.04 x

```
Starting up ...  
Loading, please wait...  
kinit: name_to_dev_t(/dev/disk/by-uuid/3f0ea87e-c09b-4161-b490-27d032979fce) = s  
da5(8,5)  
kinit: trying to resume from /dev/disk/by-uuid/3f0ea87e-c09b-4161-b490-27d032979  
fce  
kinit: No resume image, doing normal boot...  
_
```

Click in the virtual screen
to send keystrokes

Easy Install is installing Ubuntu. Please wait...

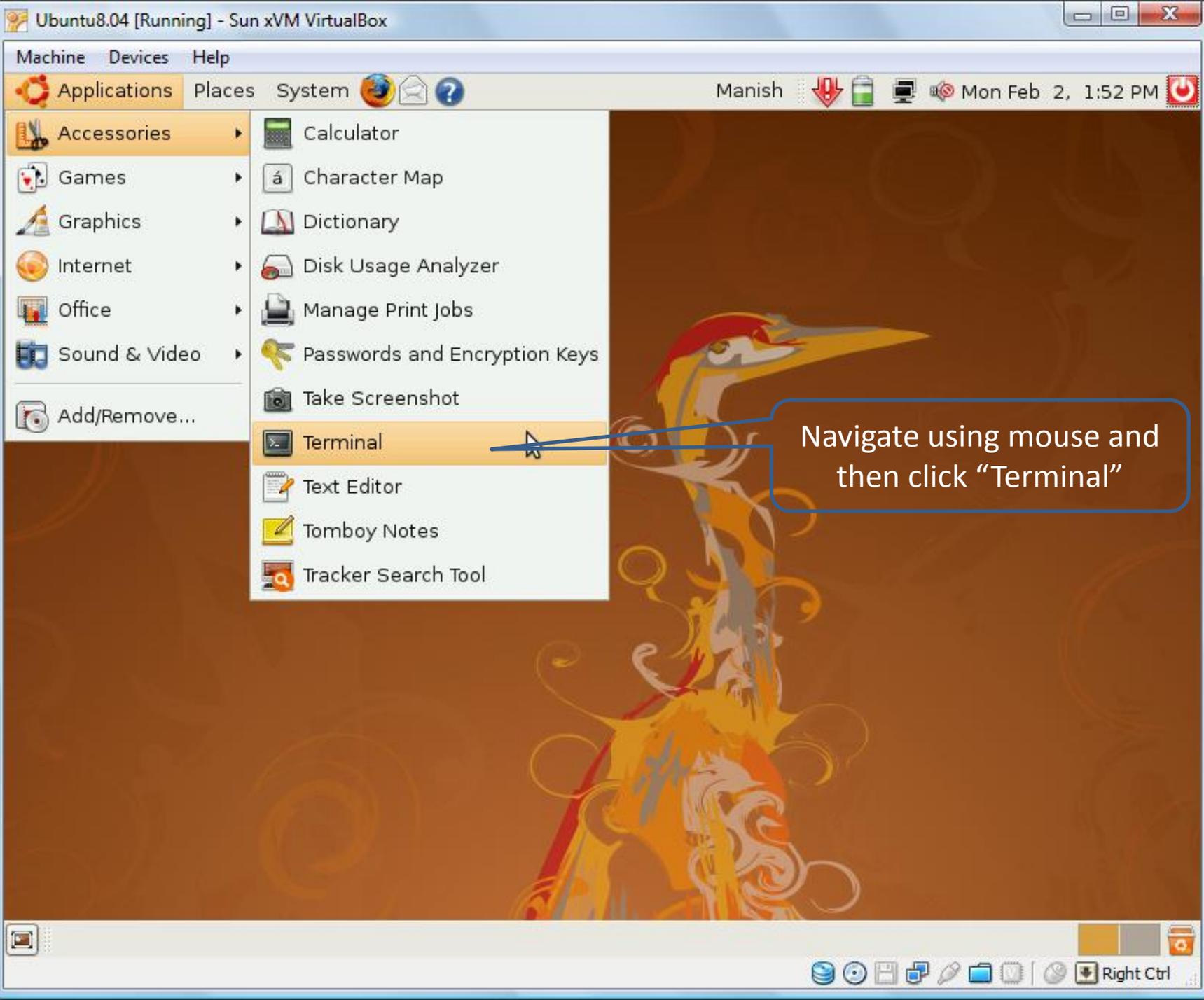
Help

To direct input to this VM, click inside or press Ctrl+G.



Part 3 - Install Development Libraries

1. To compile programs using GCC (compilers) we need to install some libraries.



Machine Devices Help

Applications

Places

System

Manish

Mon Feb 2, 1:52 PM

Accessories

Calculator

Games

Character Map

Graphics

Dictionary

Internet

Disk Usage Analyzer

Office

Manage Print Jobs

Sound & Video

Passwords and Encryption Keys

Add/Remove...

Take Screenshot

Terminal

Text Editor

Tomboy Notes

Tracker Search Tool

Navigate using mouse and then click "Terminal"

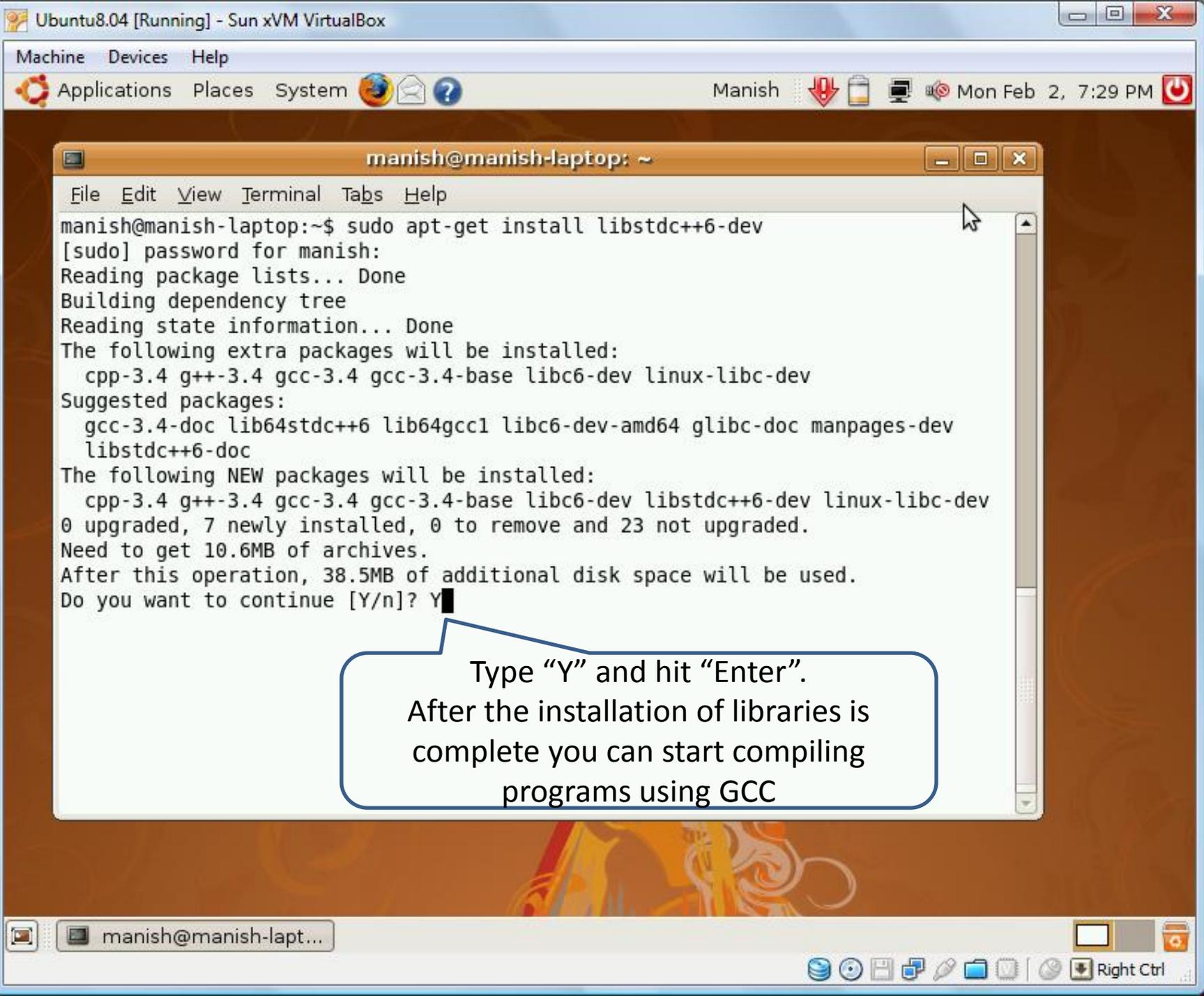
Right Ctrl

manish@manish-laptop: ~

File Edit View Terminal Tabs Help

manish@manish-laptop:~\$ sudo apt-get install libstdc++6-dev

Type in the command and hit "Enter" on keyboard. You will be asked to enter password. Type in the password and hit "Enter".



File Edit View Terminal Tabs Help

```
manish@manish-laptop:~$ sudo apt-get install libstdc++6-dev
```

```
[sudo] password for manish:
```

```
Reading package lists... Done
```

```
Building dependency tree
```

```
Reading state information... Done
```

```
The following extra packages will be installed:
```

```
  cpp-3.4 g++-3.4 gcc-3.4 gcc-3.4-base libc6-dev linux-libc-dev
```

```
Suggested packages:
```

```
  gcc-3.4-doc lib64stdc++6 lib64gcc1 libc6-dev-amd64 glibc-doc manpages-dev  
  libstdc++6-doc
```

```
The following NEW packages will be installed:
```

```
  cpp-3.4 g++-3.4 gcc-3.4 gcc-3.4-base libc6-dev libstdc++6-dev linux-libc-dev
```

```
0 upgraded, 7 newly installed, 0 to remove and 23 not upgraded.
```

```
Need to get 10.6MB of archives.
```

```
After this operation, 38.5MB of additional disk space will be used.
```

```
Do you want to continue [Y/n]? Y
```

Type "Y" and hit "Enter".
After the installation of libraries is
complete you can start compiling
programs using GCC

manish@manish-lapt...

Right Ctrl