SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2014

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Group Number:

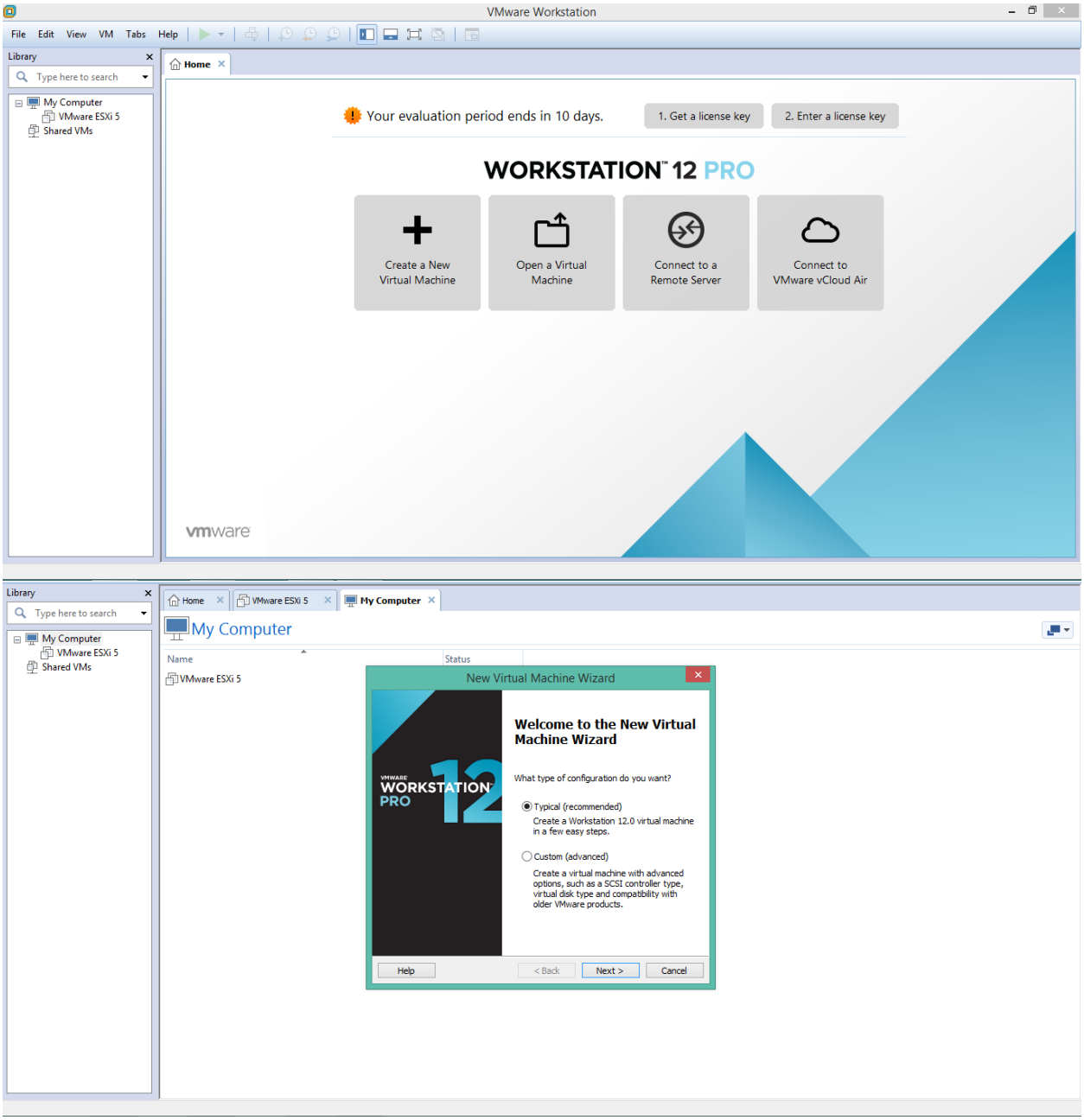
Practical Session: WD

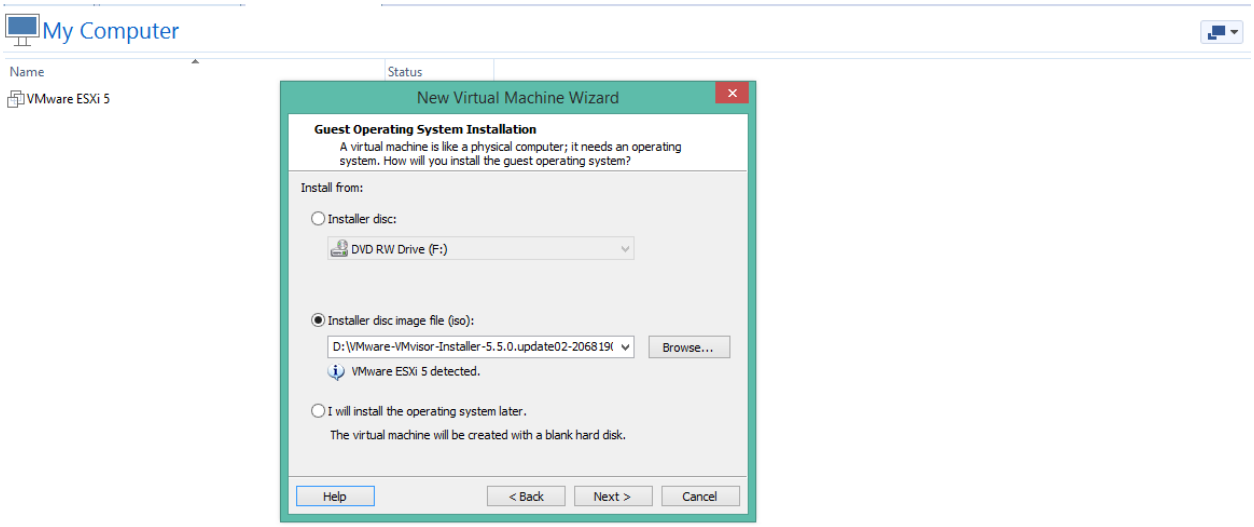
Practical Number: Lab 2

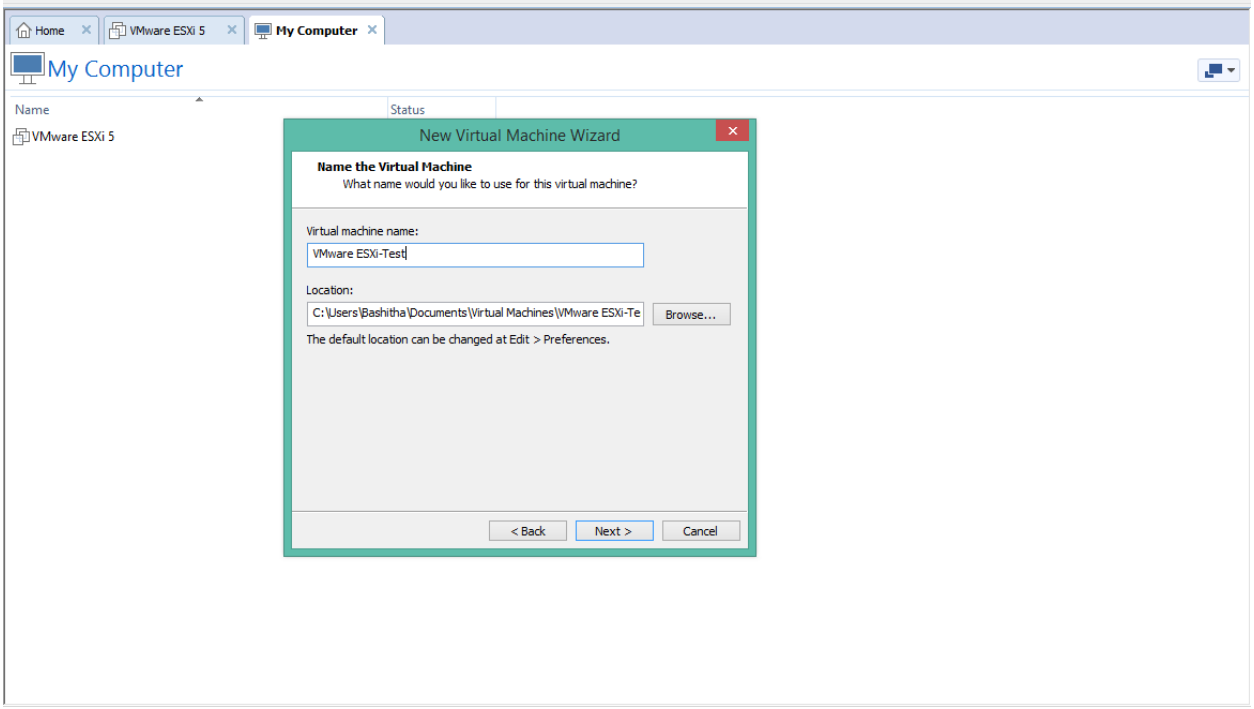
Date of Submission: 8/16/2016

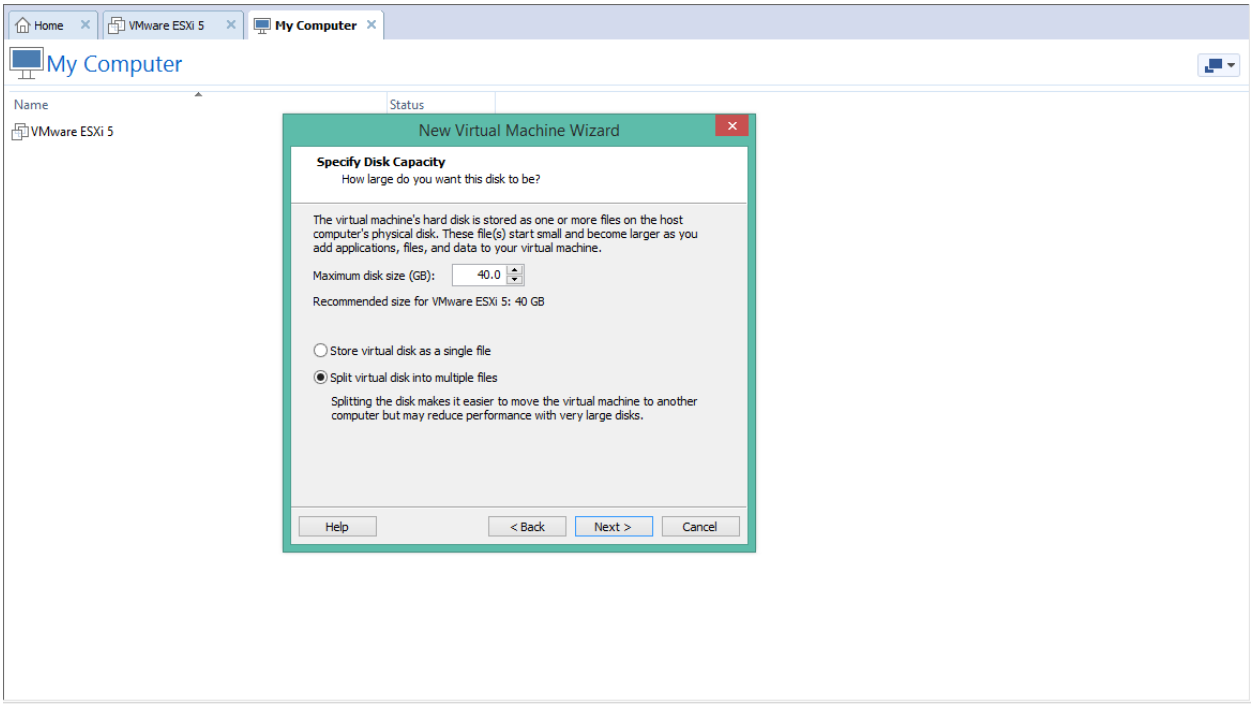
Date of Evaluation : 8/16/2016

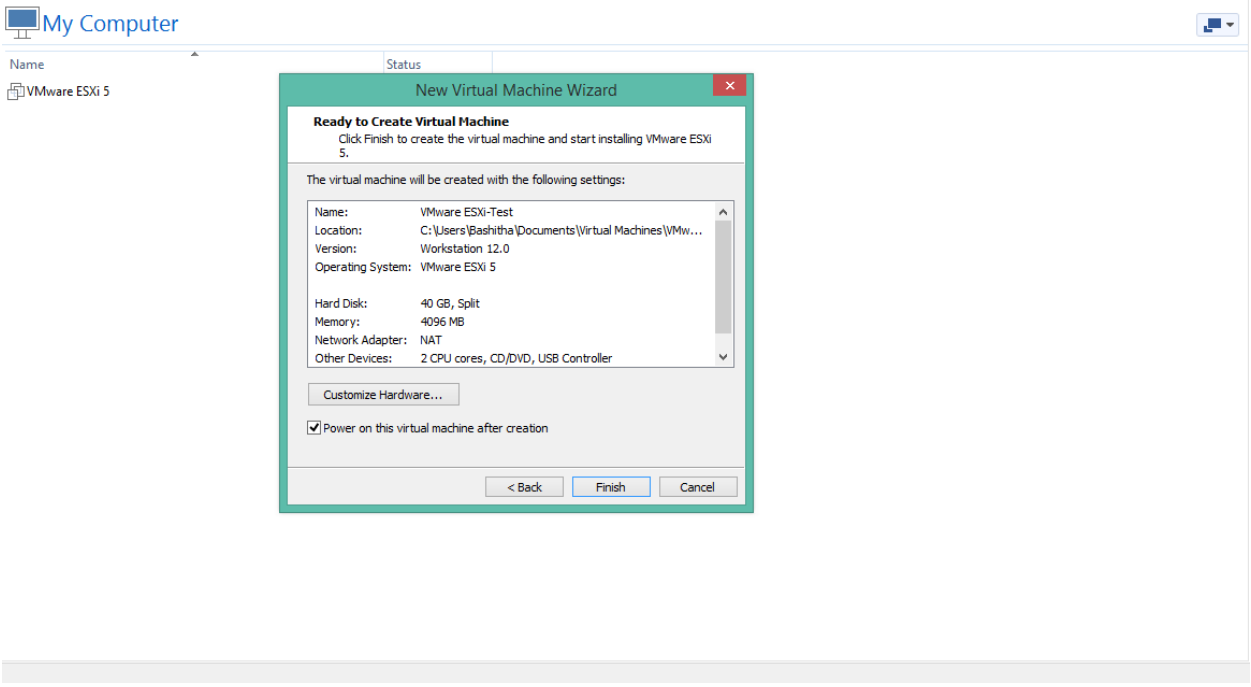
Evaluators Signature : _____

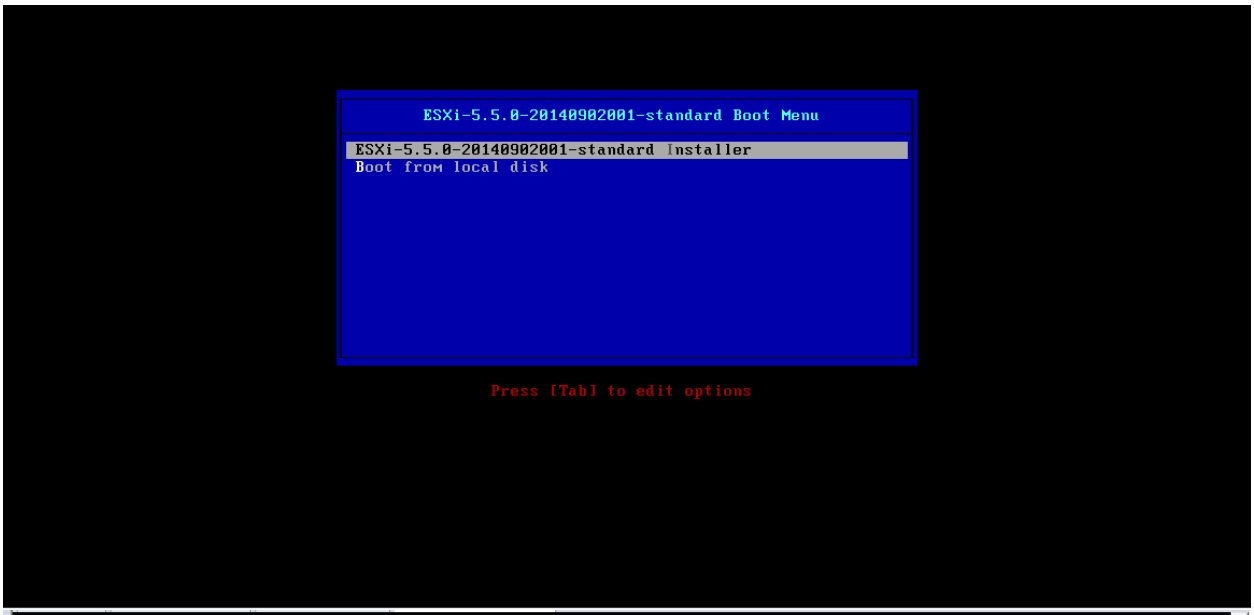

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5
Shared VMs
Home
Your evaluation period ends in 10 days.
1. Get a license key
2. Enter a license key
WORKSTATION 12 PRO
Create a New Virtual Machine
Open a Virtual Machine
Connect to a Remote Server
Connect to VMware vCloud Air
vmware
Library
Type here to search
My Computer
VMware ESXi 5
Shared VMs
Home
VMware ESXi 5
My Computer
My Computer
Name
Status
VMware ESXi 5
New Virtual Machine Wizard
Welcome to the New Virtual Machine Wizard
What type of configuration do you want?
Typical (recommended)
Create a Workstation 12.0 virtual machine in a few easy steps.
Custom (advanced)
Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.
Help
< Back
Next >
Cancel

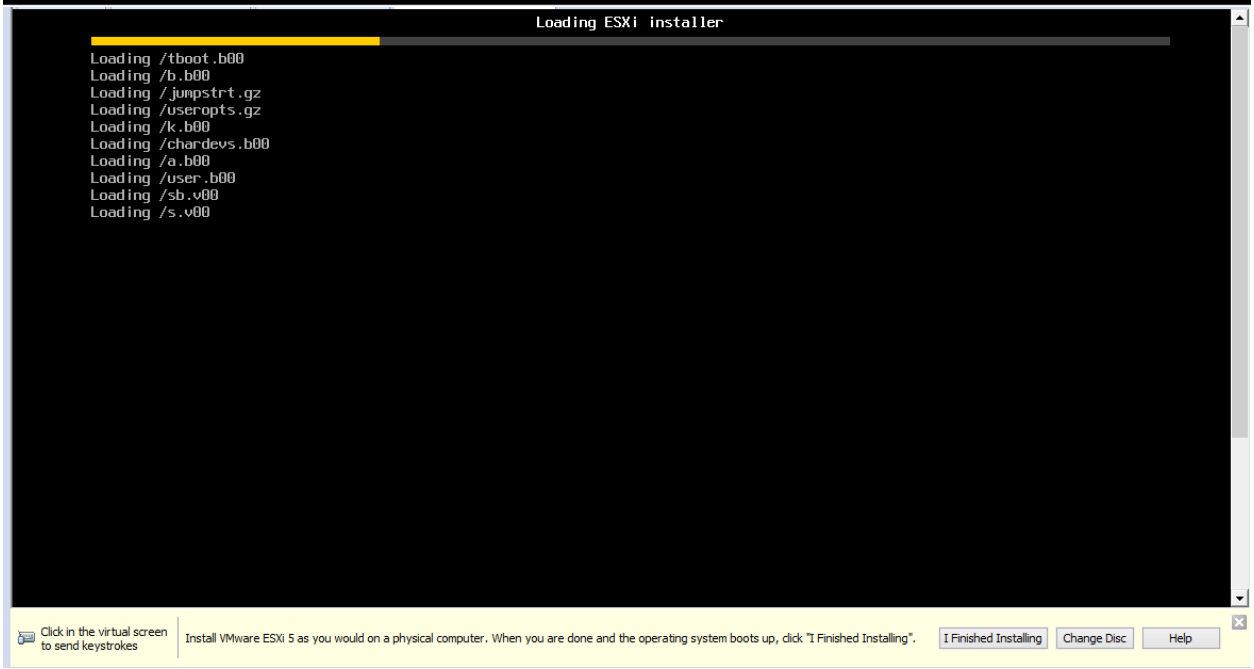

My Computer
Name
Status
VMware ESXi 5
New Virtual Machine Wizard
Guest Operating System Installation
A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?
Install from:
Installer disc:
DVD RW Drive (F:)
Installer disc image file (iso):
D:\VMware-VMvisor-Installer-5.5.0.update02-206819(
Browse...
VMware ESXi 5 detected.
I will install the operating system later.
The virtual machine will be created with a blank hard disk.
Help
< Back
Next >
Cancel

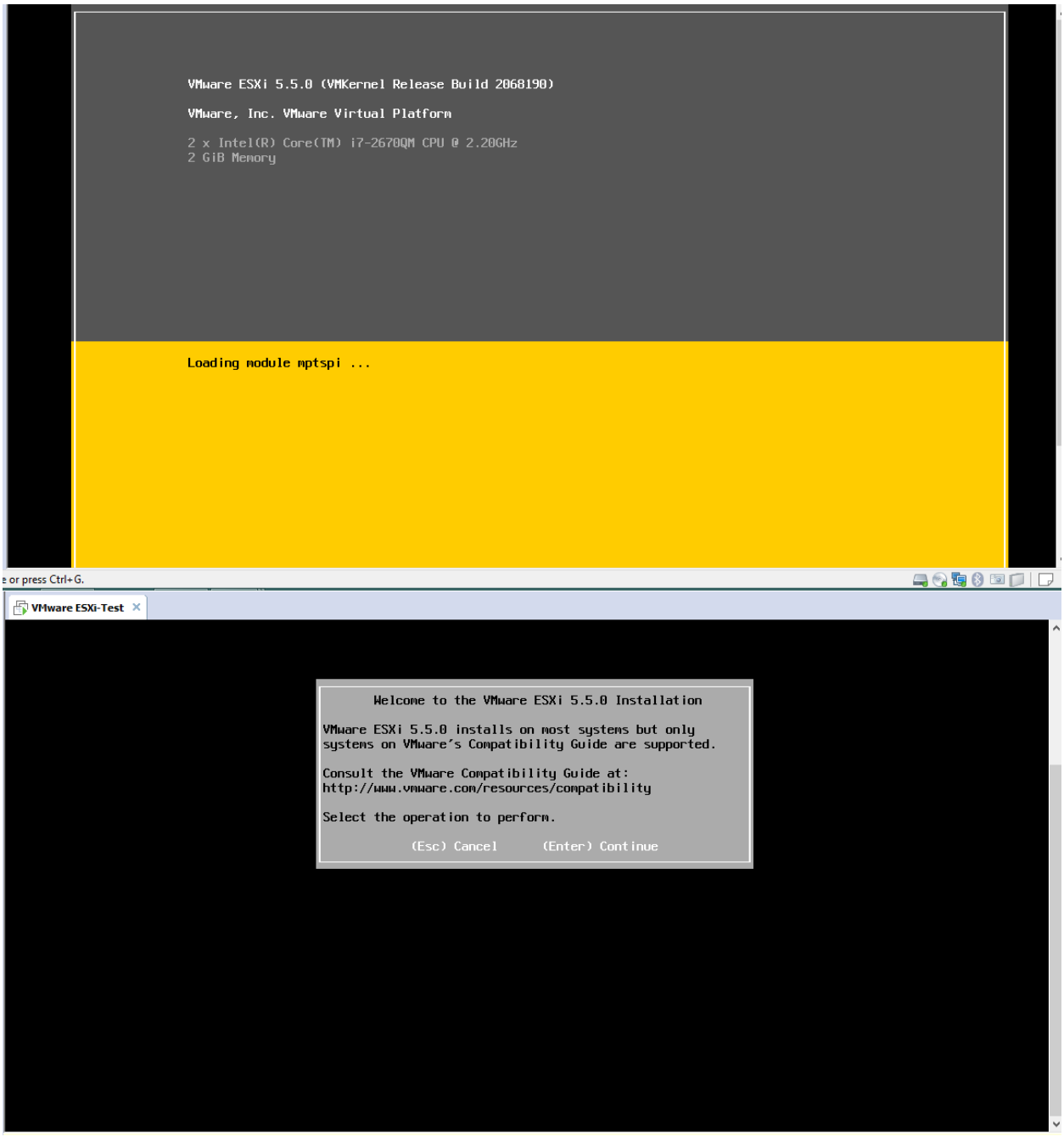

Home
VMware ESXi 5
My Computer
My Computer
Name
Status
VMware ESXi 5
New Virtual Machine Wizard
Name the Virtual Machine
What name would you like to use for this virtual machine?
Virtual machine name:
VMware ESXi-Test
Location:
C:\Users\Bashitha\Documents\Virtual Machines\VMware ESXi-Te
Browse...
The default location can be changed at Edit > Preferences.
< Back
Next >
Cancel

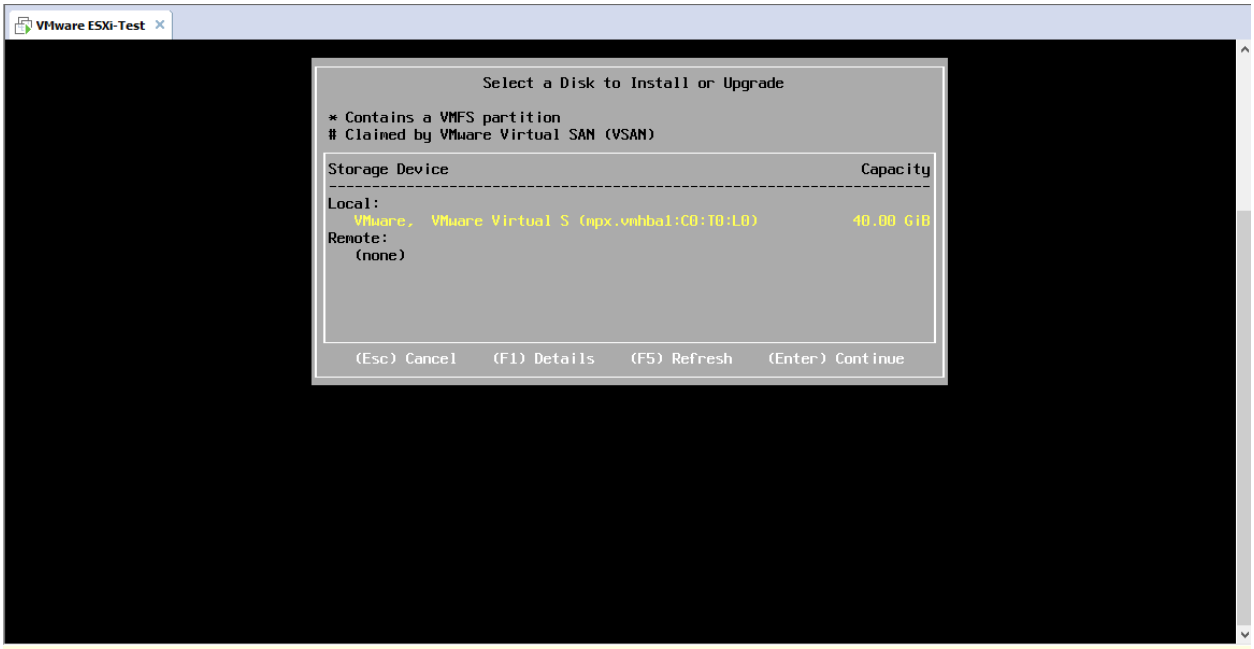

Home
VMware ESXi 5
My Computer
My Computer
Name
Status
VMware ESXi 5
New Virtual Machine Wizard
Specify Disk Capacity
How large do you want this disk to be?
The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.
Maximum disk size (GB):
40.0
Recommended size for VMware ESXi 5: 40 GB
Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
Help
< Back
Next >
Cancel

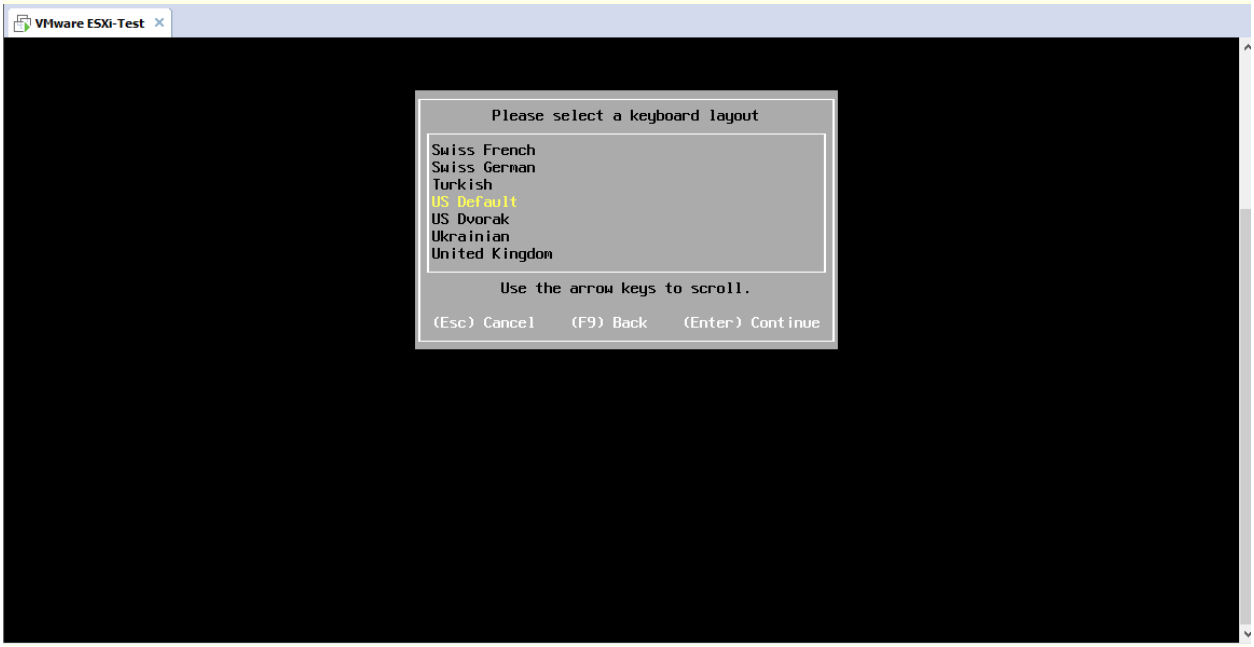

My Computer
Name
Status
VMware ESXi 5
New Virtual Machine Wizard
Ready to Create Virtual Machine
Click Finish to create the virtual machine and start installing VMware ESXi 5.
The virtual machine will be created with the following settings:
Name: VMware ESXi-Test
Location: C:\Users\Bashitha\Documents\Virtual Machines\VMw...
Version: Workstation 12.0
Operating System: VMware ESXi 5
Hard Disk: 40 GB, Split
Memory: 4096 MB
Network Adapter: NAT
Other Devices: 2 CPU cores, CD/DVD, USB Controller
Customize Hardware...
Power on this virtual machine after creation
< Back
Finish
Cancel

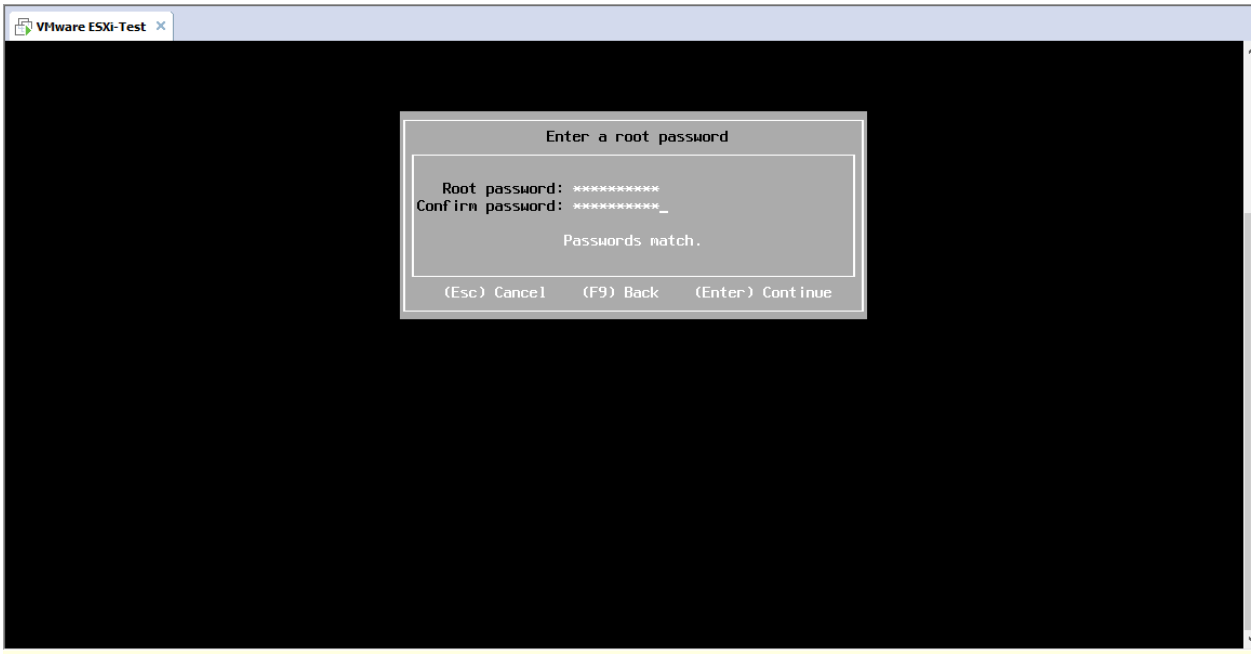

ESXi-5.5.0-20140902001-standard Boot Menu
ESXi-5.5.0-20140902001-standard Installer
Boot from local disk
Press [Tab] to edit options

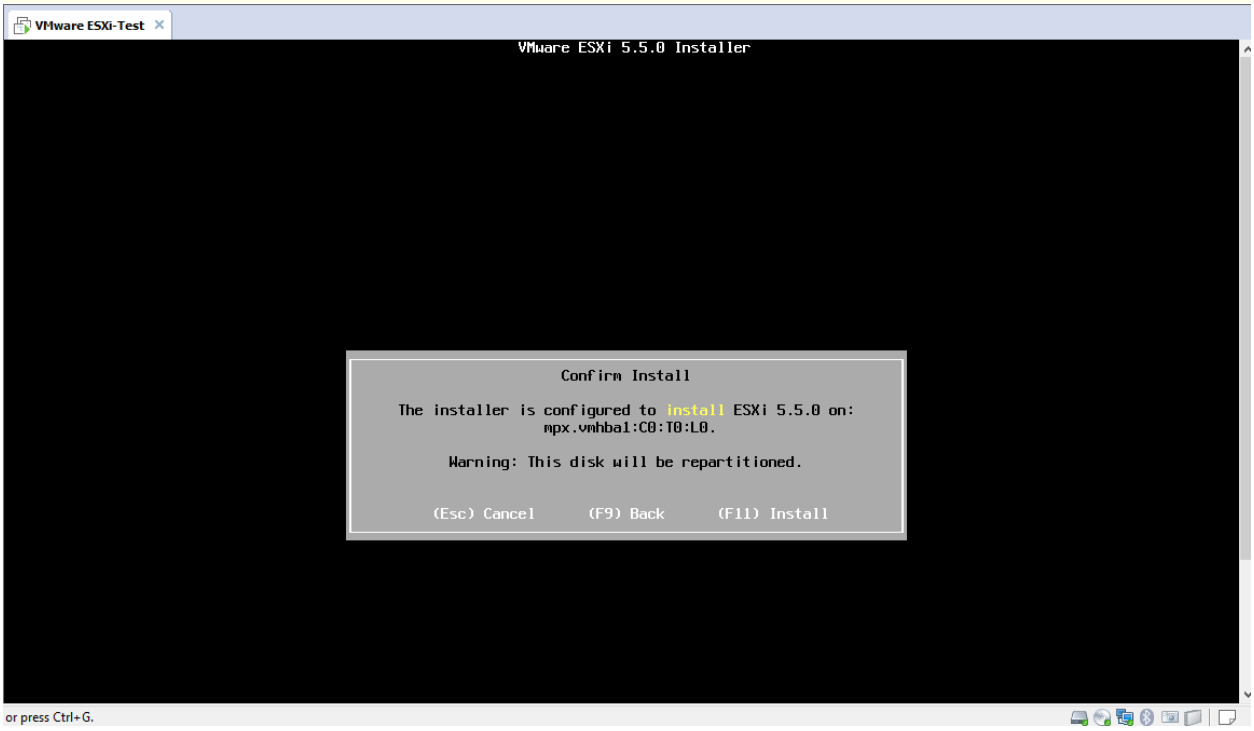

Loading ESXi installer
Loading /tboot.b00
Loading /b.b00
Loading /jumpstrt.gz
Loading /useropts.gz
Loading /k.b00
Loading /chardevs.b00
Loading /a.b00
Loading /user.b00
Loading /sb.v00
Loading /s.v00
Click in the virtual screen to send keystrokes
Install VMware ESXi 5 as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Change Disc
Help

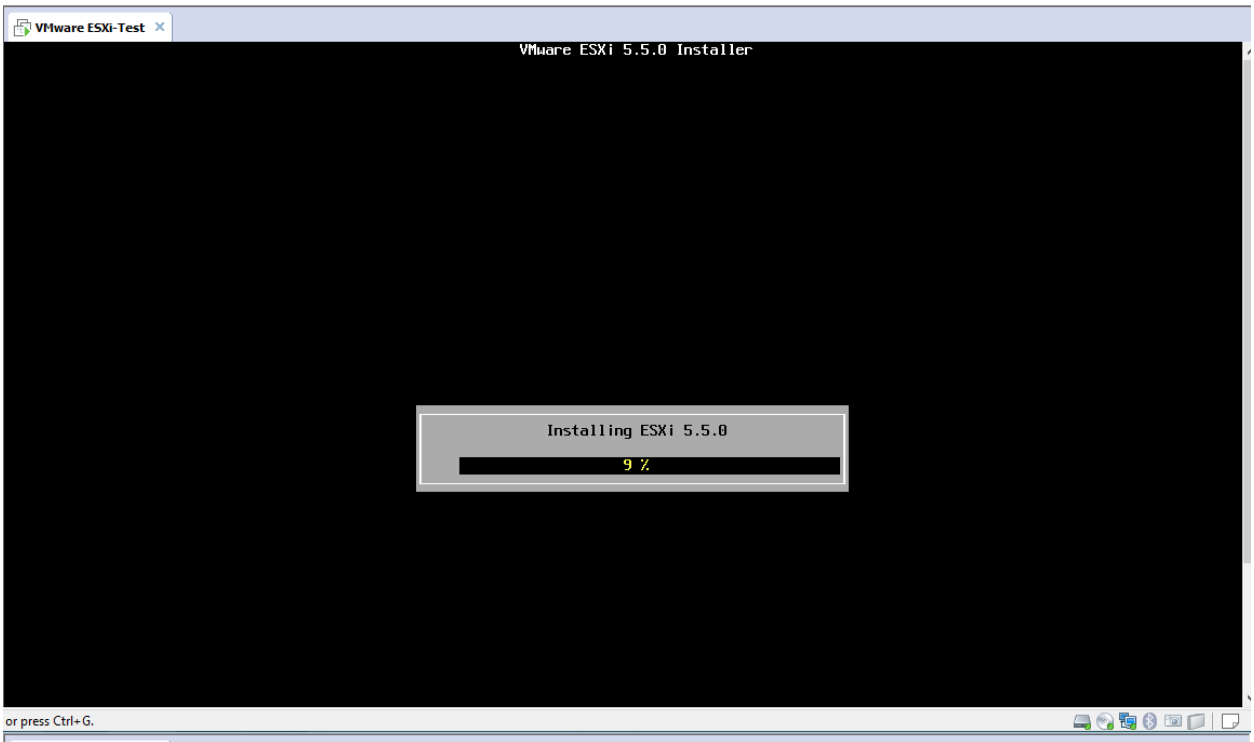

VMware ESXi 5.5.0 (VMKernel Release Build 2068190)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i7-2670QM CPU @ 2.20GHz
2 GiB Memory
Loading module mptspi ...
e or press Ctrl+G.
VMware ESXi-Test
Welcome to the VMware ESXi 5.5.0 Installation
VMware ESXi 5.5.0 installs on most systems but only
systems on VMware's Compatibility Guide are supported.
Consult the VMware Compatibility Guide at:
http://www.vmware.com/resources/compatibility
Select the operation to perform.
(Esc) Cancel
(Enter) Continue


VMware ESXi-Test
Select a Disk to Install or Upgrade
* Contains a VMFS partition
# Claimed by VMware Virtual SAN (VSAN)
Storage Device
Capacity
Local:
VMware, VMware Virtual S (mpx.vmhba1:C0:T0:L0)
40.00 GiB
Remote:
(none)
(Esc) Cancel
(F1) Details
(F5) Refresh
(Enter) Continue

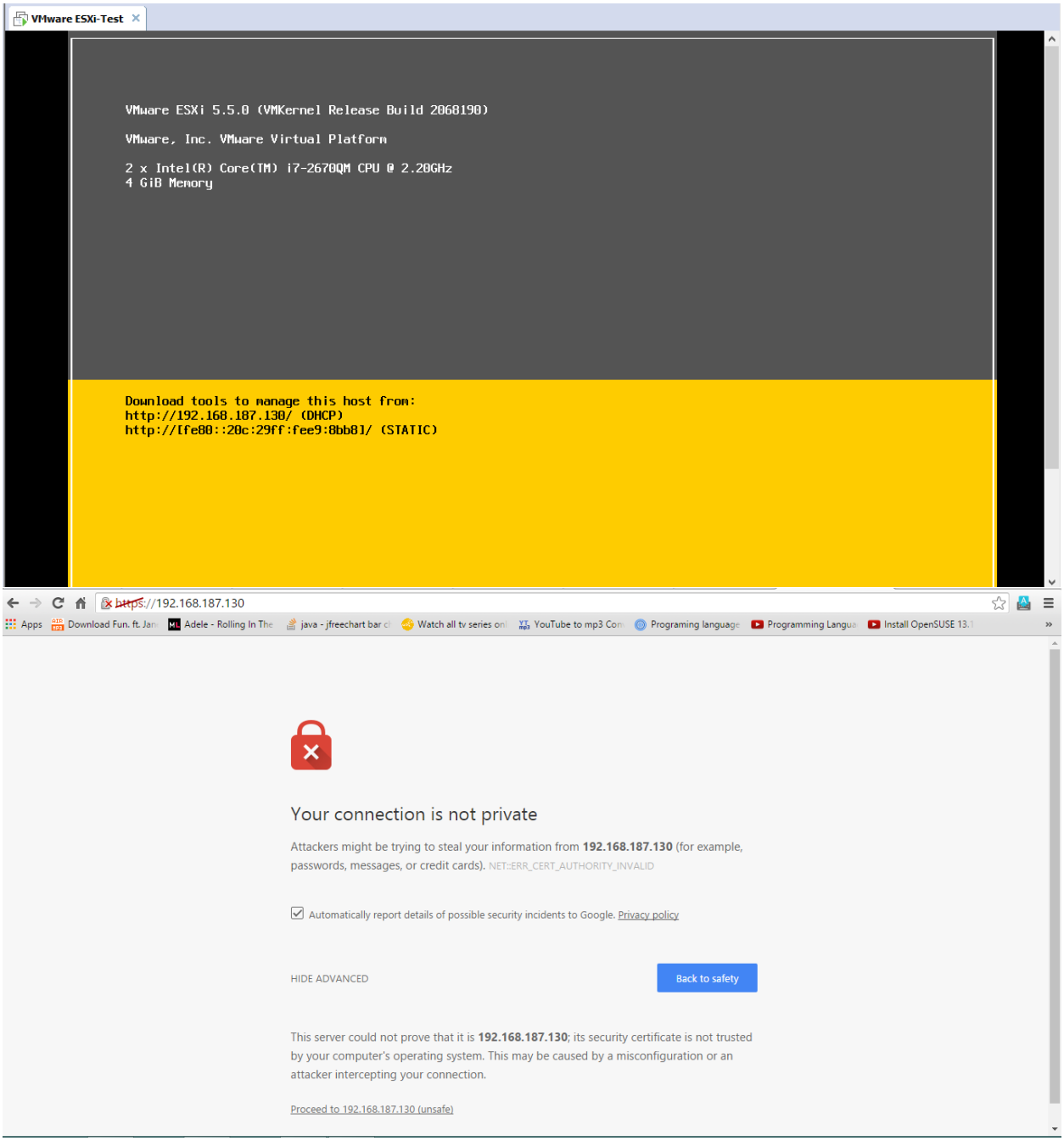

VMware ESXi-Test
Please select a keyboard layout
Swiss French
Swiss German
Turkish
US Default
US Dvorak
Ukrainian
United Kingdom
Use the arrow keys to scroll.
(Esc) Cancel
(F9) Back
(Enter) Continue

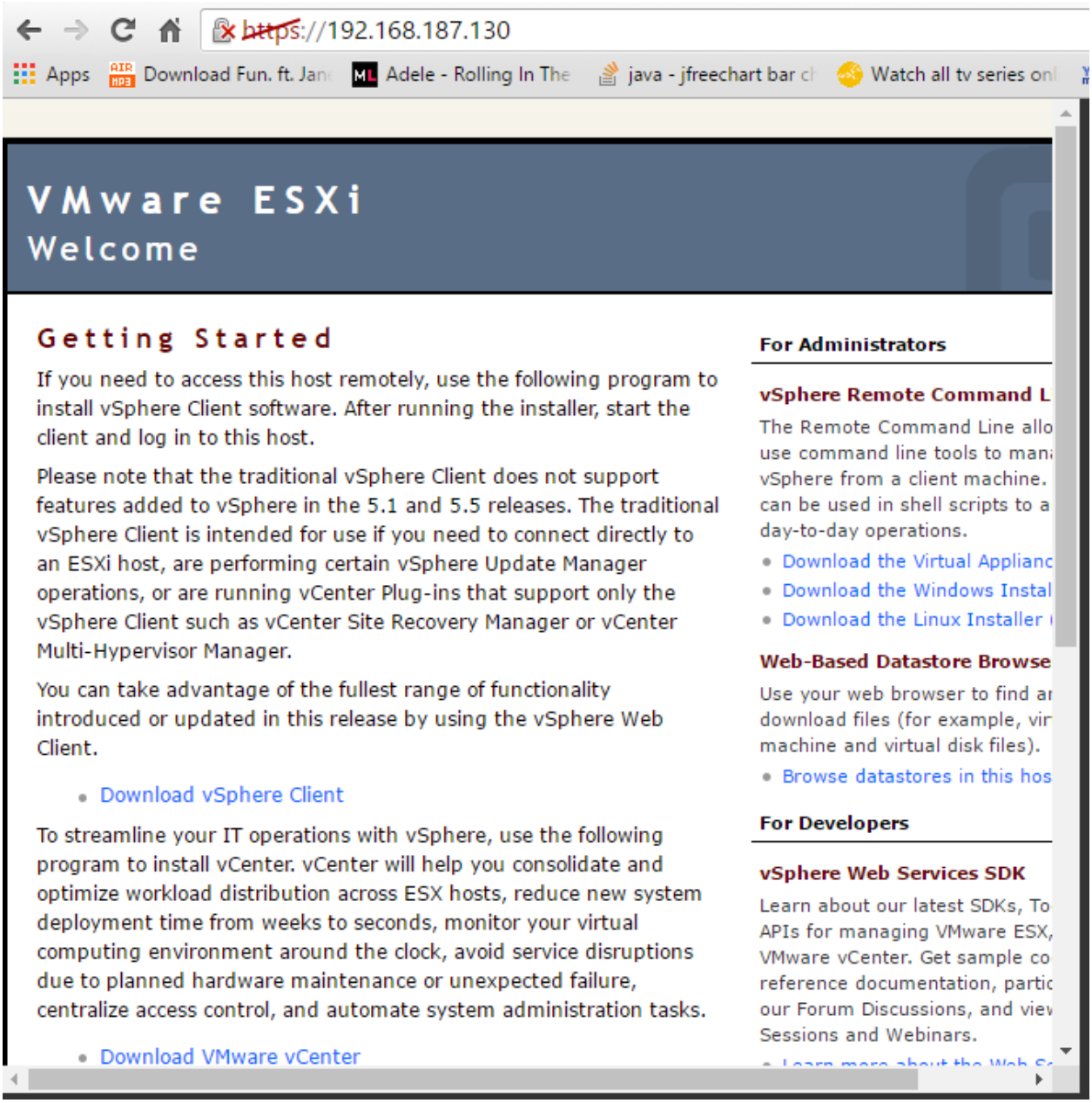

VMware ESXi-Test
Enter a root password
Root password: **********
Confirm password: **********_
Passwords match.
(Esc) Cancel (F9) Back (Enter) Continue

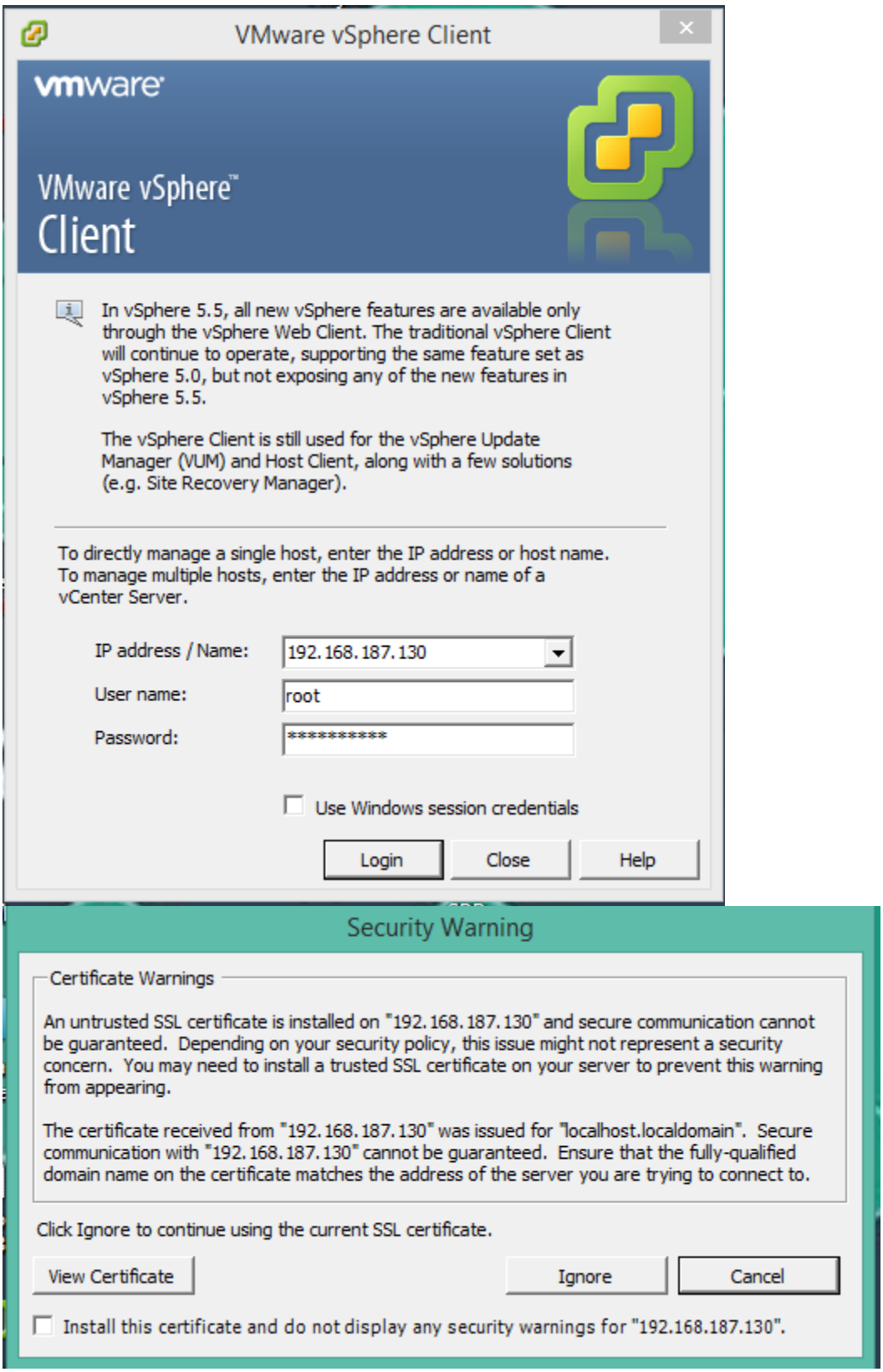

VMware ESXi-Test
VMware ESXi 5.5.0 Installer
Confirm Install
The installer is configured to install ESXi 5.5.0 on:
mpx.vmhba1:C0:T0:L0.
Warning: This disk will be repartitioned.
(Esc) Cancel (F9) Back (F11) Install
or press Ctrl+G.

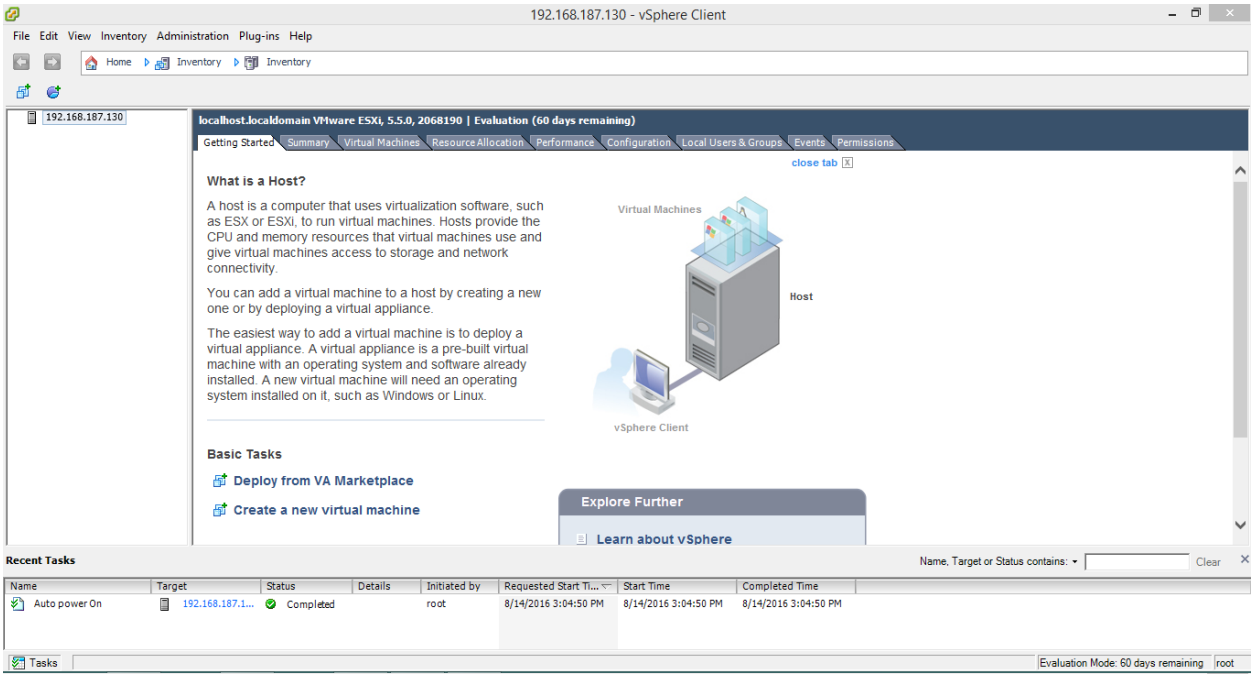

VMware ESXi-Test
VMware ESXi 5.5.0 Installer
Installing ESXi 5.5.0
9 %
or press Ctrl+G.

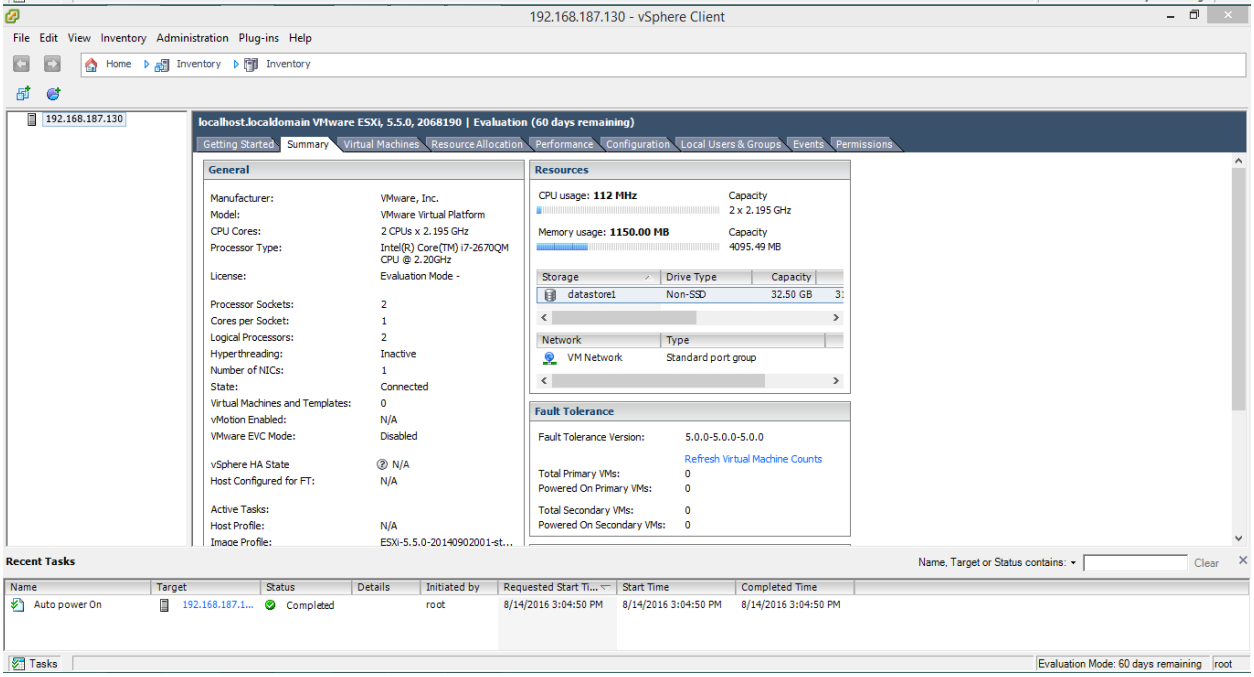
VMware ESXi-Test
VMware ESXi 5.5.0 Installer
Installation Complete
ESXi 5.5.0 has been successfully installed.
ESXi 5.5.0 will operate in evaluation mode for 60 days. To use ESXi 5.5.0 after the evaluation period, you must register for a VMware product license. To administer your server, use the vSphere Client or the Direct Control User Interface.
Remove the installation disc before rebooting.
Reboot the server to start using ESXi 5.5.0.
(Enter) Reboot
or press Ctrl+G.

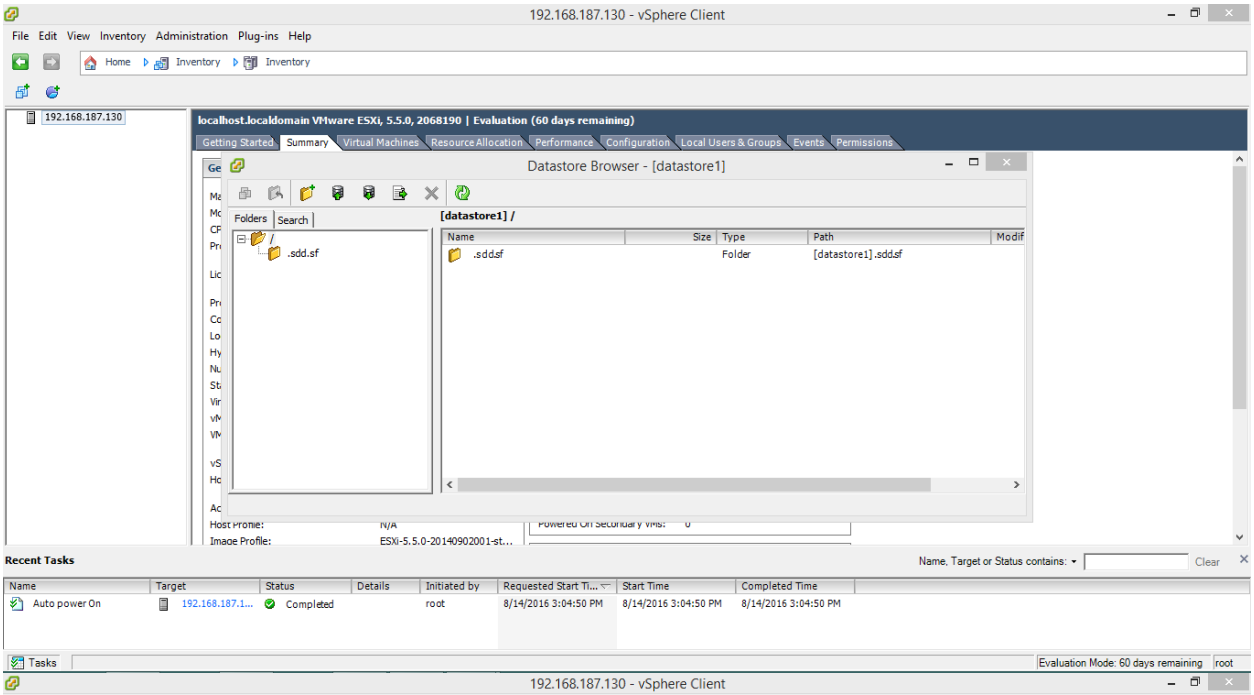

VMware ESXi-Test
VMware ESXi 5.5.0 (VMKernel Release Build 2068190)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i7-2670QM CPU @ 2.20GHz
4 GiB Memory
Download tools to manage this host from:
http://192.168.187.130/ (DHCP)
http://[fe80::20c:29ff:fee9:8bb8]/ (STATIC)
https://192.168.187.130
Your connection is not private
Attackers might be trying to steal your information from 192.168.187.130 (for example, passwords, messages, or credit cards). NET::ERR_CERT_AUTHORITY_INVALID
Automatically report details of possible security incidents to Google. Privacy policy
HIDE ADVANCED
Back to safety
This server could not prove that it is 192.168.187.130; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.
Proceed to 192.168.187.130 (unsafe)

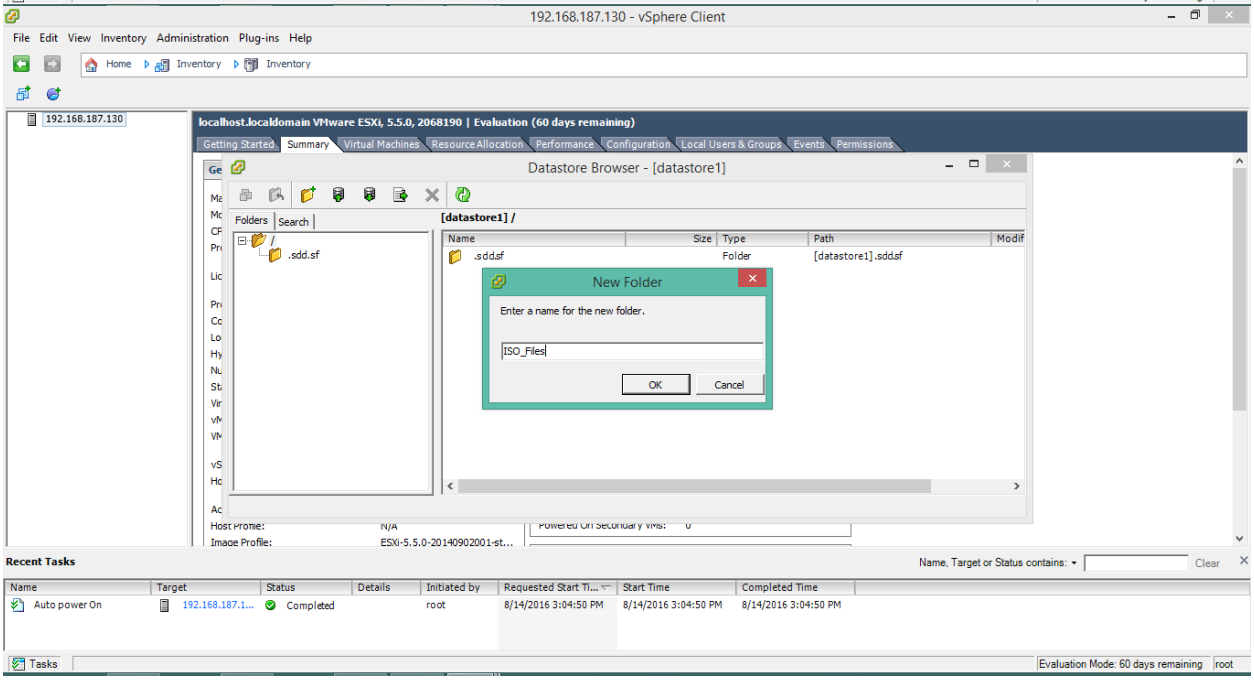

https://192.168.187.130
Apps
Download Fun. ft. Jan
Adele - Rolling In The
java - jfreechart bar ch
Watch all tv series onl
VMware ESXi
Welcome
Getting Started
If you need to access this host remotely, use the following program to install vSphere Client software. After running the installer, start the client and log in to this host.
Please note that the traditional vSphere Client does not support features added to vSphere in the 5.1 and 5.5 releases. The traditional vSphere Client is intended for use if you need to connect directly to an ESXi host, are performing certain vSphere Update Manager operations, or are running vCenter Plug-ins that support only the vSphere Client such as vCenter Site Recovery Manager or vCenter Multi-Hypervisor Manager.
You can take advantage of the fullest range of functionality introduced or updated in this release by using the vSphere Web Client.
Download vSphere Client
To streamline your IT operations with vSphere, use the following program to install vCenter. vCenter will help you consolidate and optimize workload distribution across ESX hosts, reduce new system deployment time from weeks to seconds, monitor your virtual computing environment around the clock, avoid service disruptions due to planned hardware maintenance or unexpected failure, centralize access control, and automate system administration tasks.
Download VMware vCenter
For Administrators
vSphere Remote Command L
The Remote Command Line allo
use command line tools to mani
vSphere from a client machine.
can be used in shell scripts to a
day-to-day operations.
Download the Virtual Applianc
Download the Windows Instal
Download the Linux Installer
Web-Based Datastore Browse
Use your web browser to find ar
download files (for example, vir
machine and virtual disk files).
Browse datastores in this hos
For Developers
vSphere Web Services SDK
Learn about our latest SDKs, To
APIs for managing VMware ESX,
VMware vCenter. Get sample co
reference documentation, partic
our Forum Discussions, and viev
Sessions and Webinars.

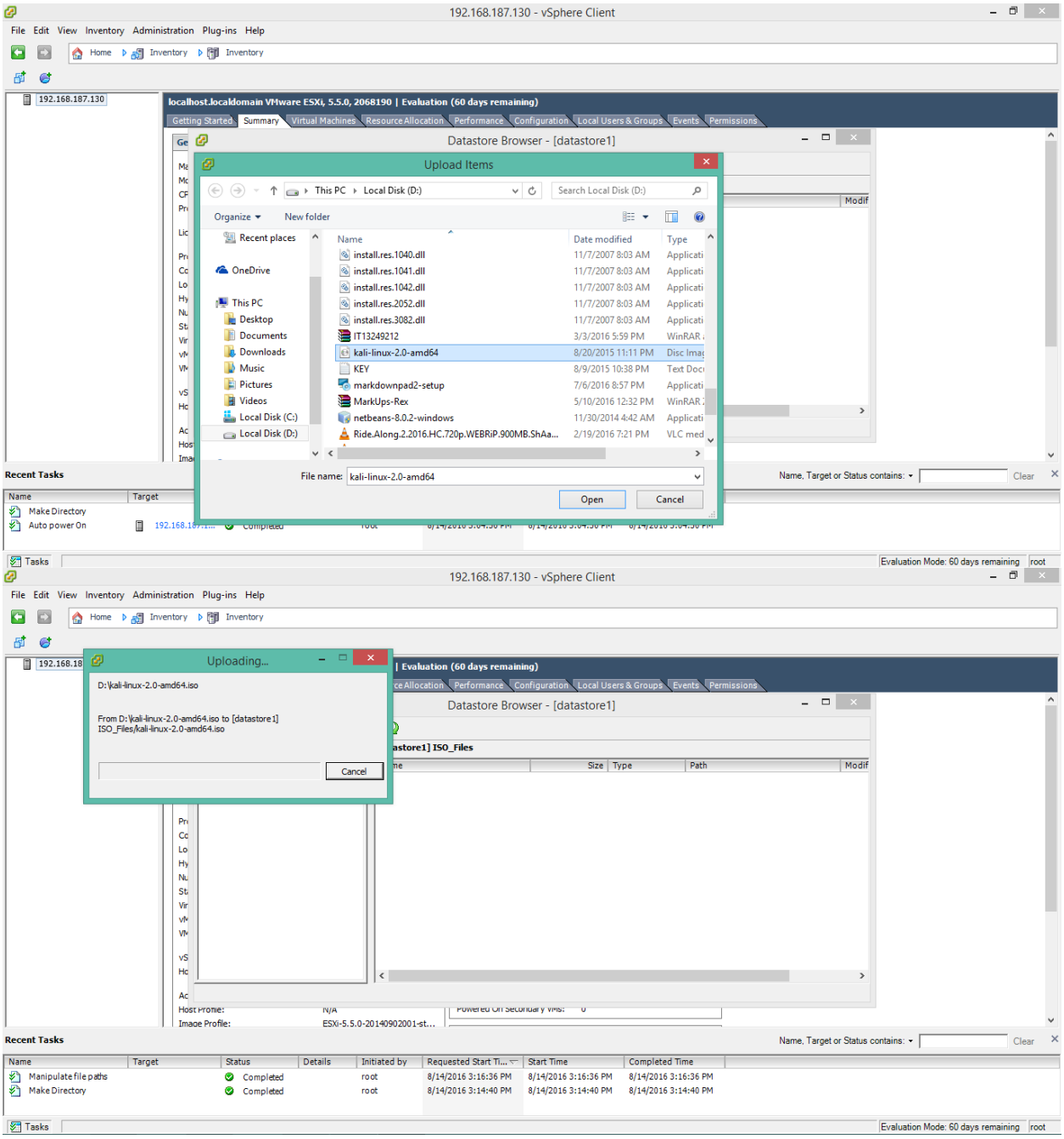

VMware vSphere Client
vmware
VMware vSphere™
Client
In vSphere 5.5, all new vSphere features are available only through the vSphere Web Client. The traditional vSphere Client will continue to operate, supporting the same feature set as vSphere 5.0, but not exposing any of the new features in vSphere 5.5.
The vSphere Client is still used for the vSphere Update Manager (VUM) and Host Client, along with a few solutions (e.g. Site Recovery Manager).
To directly manage a single host, enter the IP address or host name. To manage multiple hosts, enter the IP address or name of a vCenter Server.
IP address / Name:
192.168.187.130
User name:
root
Password:
Use Windows session credentials
Login
Close
Help
Security Warning
Certificate Warnings
An untrusted SSL certificate is installed on "192.168.187.130" and secure communication cannot be guaranteed. Depending on your security policy, this issue might not represent a security concern. You may need to install a trusted SSL certificate on your server to prevent this warning from appearing.
The certificate received from "192.168.187.130" was issued for "localhost.localdomain". Secure communication with "192.168.187.130" cannot be guaranteed. Ensure that the fully-qualified domain name on the certificate matches the address of the server you are trying to connect to.
Click Ignore to continue using the current SSL certificate.
View Certificate
Ignore
Cancel
Install this certificate and do not display any security warnings for "192.168.187.130".

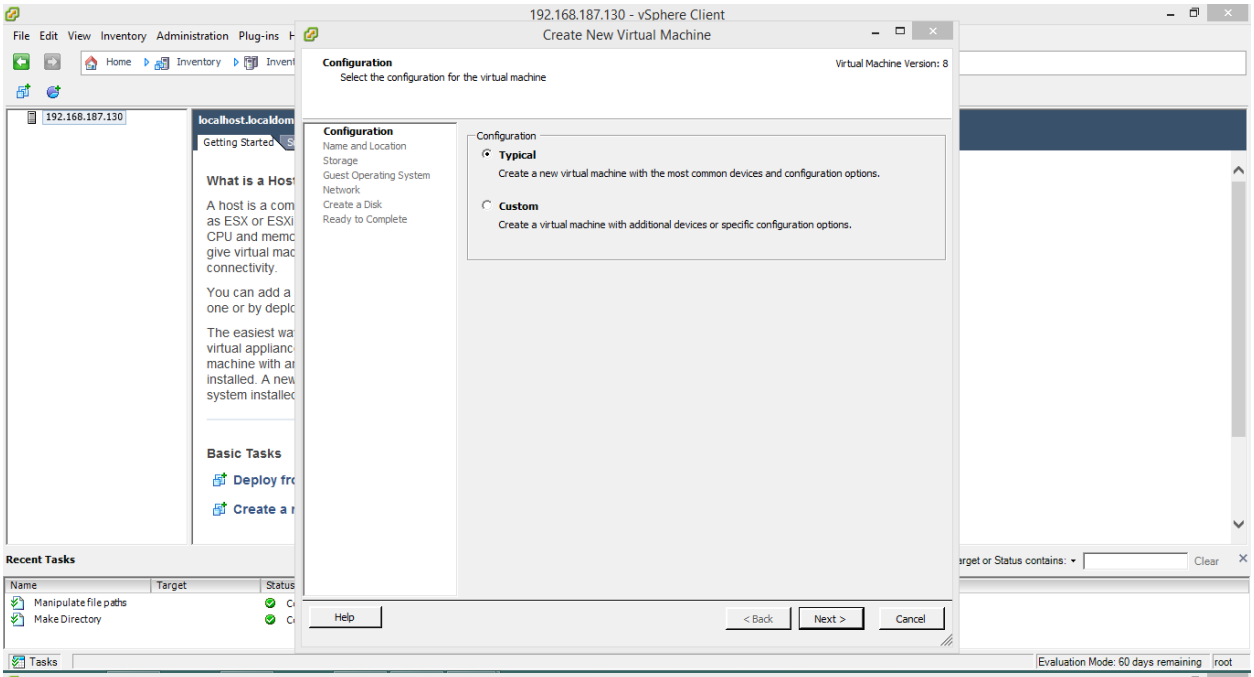

192.168.187.130 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.187.130
localhost.localdomain VMware ESXi, 5.5.0, 2068190 | Evaluation (60 days remaining)
Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions
close tab
What is a Host?
A host is a computer that uses virtualization software, such as ESX or ESXi, to run virtual machines. Hosts provide the CPU and memory resources that virtual machines use and give virtual machines access to storage and network connectivity.
You can add a virtual machine to a host by creating a new one or by deploying a virtual appliance.
The easiest way to add a virtual machine is to deploy a virtual appliance. A virtual appliance is a pre-built virtual machine with an operating system and software already installed. A new virtual machine will need an operating system installed on it, such as Windows or Linux.
Virtual Machines
Host
vSphere Client
Basic Tasks
Deploy from VA Marketplace
Create a new virtual machine
Explore Further
Learn about vSphere
Recent Tasks
Name, Target or Status contains:
Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Auto power On 192.168.187.1... Completed root 8/14/2016 3:04:50 PM 8/14/2016 3:04:50 PM 8/14/2016 3:04:50 PM
Tasks
Evaluation Mode: 60 days remaining
root

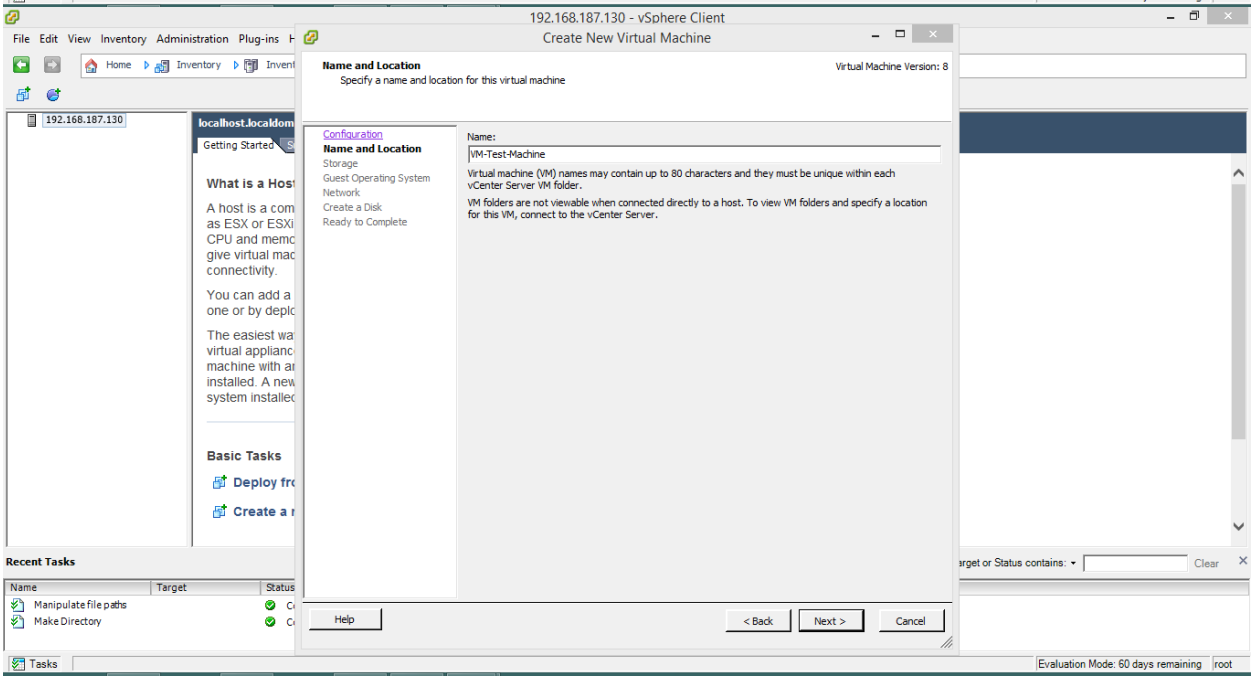

192.168.187.130 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.187.130
localhost.localdomain VMware ESXi, 5.5.0, 2068190 | Evaluation (60 days remaining)
Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions
General
Manufacturer: VMware, Inc.
Model: VMware Virtual Platform
CPU Cores: 2 CPUs x 2.195 GHz
Processor Type: Intel(R) Core(TM) i7-2670QM CPU @ 2.20GHz
License: Evaluation Mode -
Processor Sockets: 2
Cores per Socket: 1
Logical Processors: 2
Hyperthreading: Inactive
Number of NICs: 1
State: Connected
Virtual Machines and Templates: 0
vMotion Enabled: N/A
VMware EVC Mode: Disabled
vSphere HA State N/A
Host Configured for FT: N/A
Active Tasks:
Host Profile: N/A
Image Profile: ESXi-5.5.0-20140902001-st...
Resources
CPU usage: 112 MHz Capacity 2 x 2.195 GHz
Memory usage: 1150.00 MB Capacity 4095.49 MB
Storage Drive Type Capacity
datastore1 Non-SSD 32.50 GB
Network Type
VM Network Standard port group
Fault Tolerance
Fault Tolerance Version: 5.0.0-5.0.0-5.0.0
Refresh Virtual Machine Counts
Total Primary VMs: 0
Powered On Primary VMs: 0
Total Secondary VMs: 0
Powered On Secondary VMs: 0
Recent Tasks
Name, Target or Status contains:
Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Auto power On 192.168.187.1... Completed root 8/14/2016 3:04:50 PM 8/14/2016 3:04:50 PM 8/14/2016 3:04:50 PM
Tasks
Evaluation Mode: 60 days remaining
root

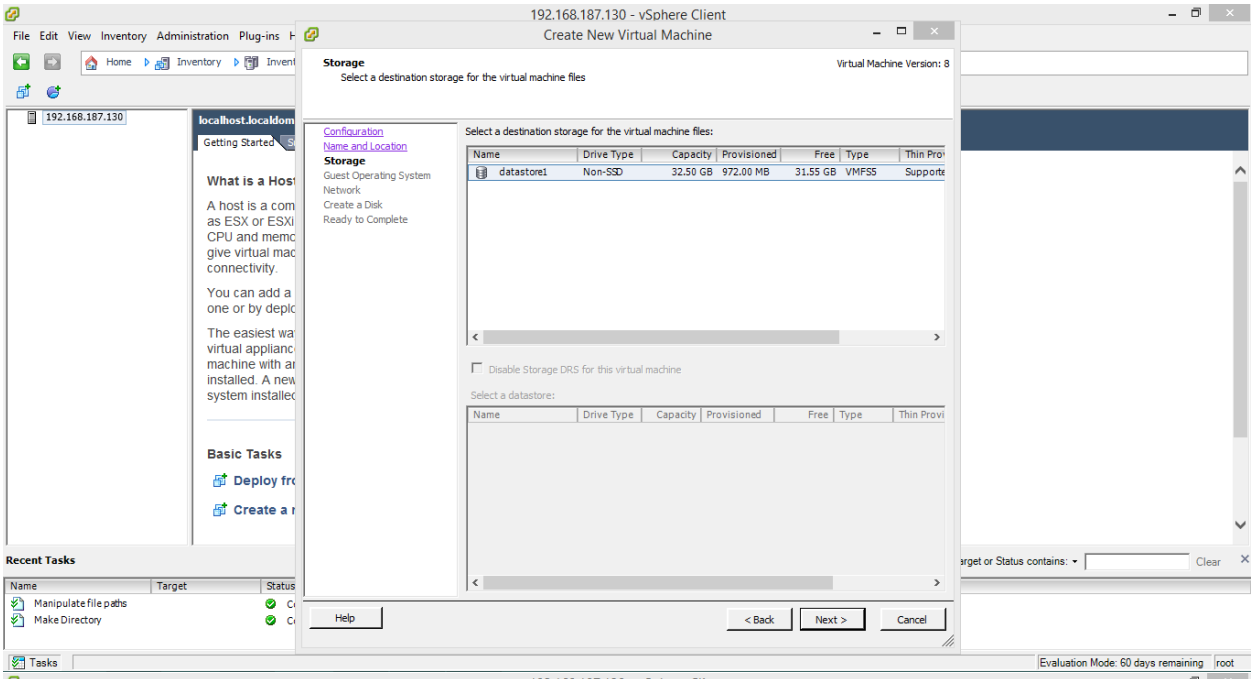

192.168.187.130 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.187.130
localhost.localdomain VMware ESXi, 5.5.0, 2068190 | Evaluation (60 days remaining)
Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions
Datastore Browser - [datastore1]
Folders Search
[datastore1] /
.sdd.sf
Name Size Type Path
.sdd.sf Folder [datastore1].sdd.sf
Recent Tasks
Name, Target or Status contains:
Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Auto power On 192.168.187.1... Completed root 8/14/2016 3:04:50 PM 8/14/2016 3:04:50 PM 8/14/2016 3:04:50 PM
Tasks
Evaluation Mode: 60 days remaining
root

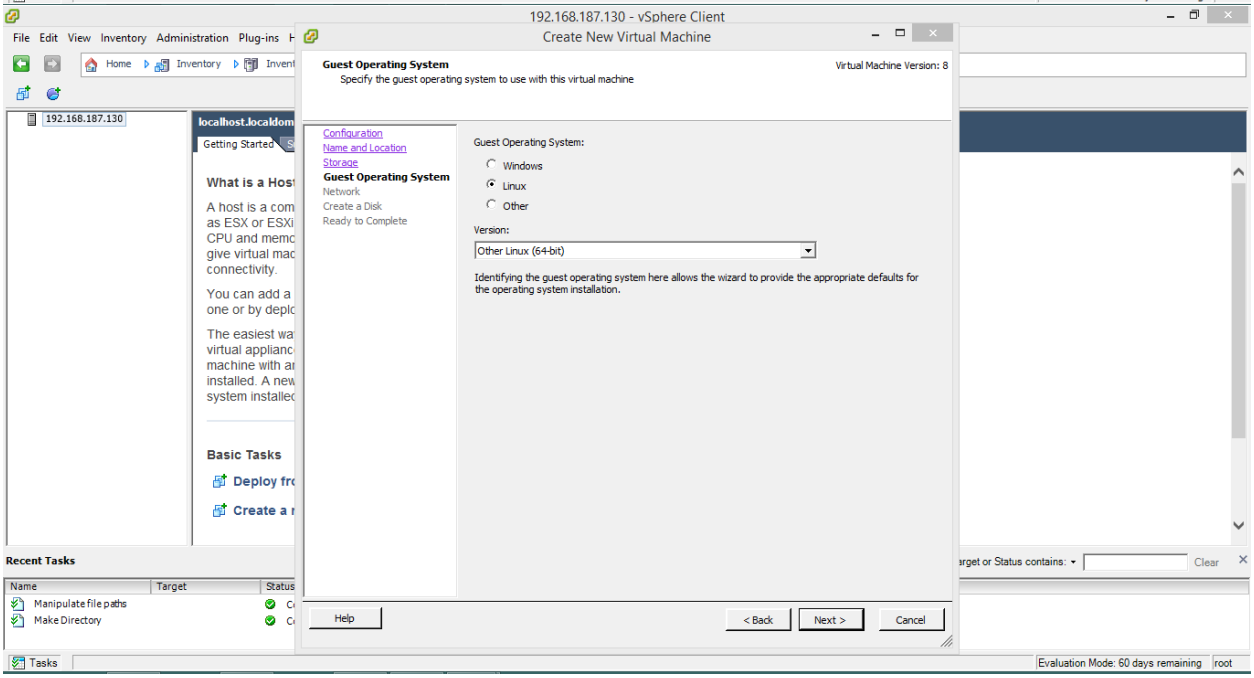

192.168.187.130 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.187.130
localhost.localdomain VMware ESXi, 5.5.0, 2068190 | Evaluation (60 days remaining)
Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions
Datastore Browser - [datastore1]
Folders Search
[datastore1] /
.sdd.sf
Name Size Type Path
.sdd.sf Folder [datastore1].sdd.sf
New Folder
Enter a name for the new folder.
ISO_Files
OK
Cancel
Recent Tasks
Name, Target or Status contains:
Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Auto power On 192.168.187.1... Completed root 8/14/2016 3:04:50 PM 8/14/2016 3:04:50 PM 8/14/2016 3:04:50 PM
Tasks
Evaluation Mode: 60 days remaining
root

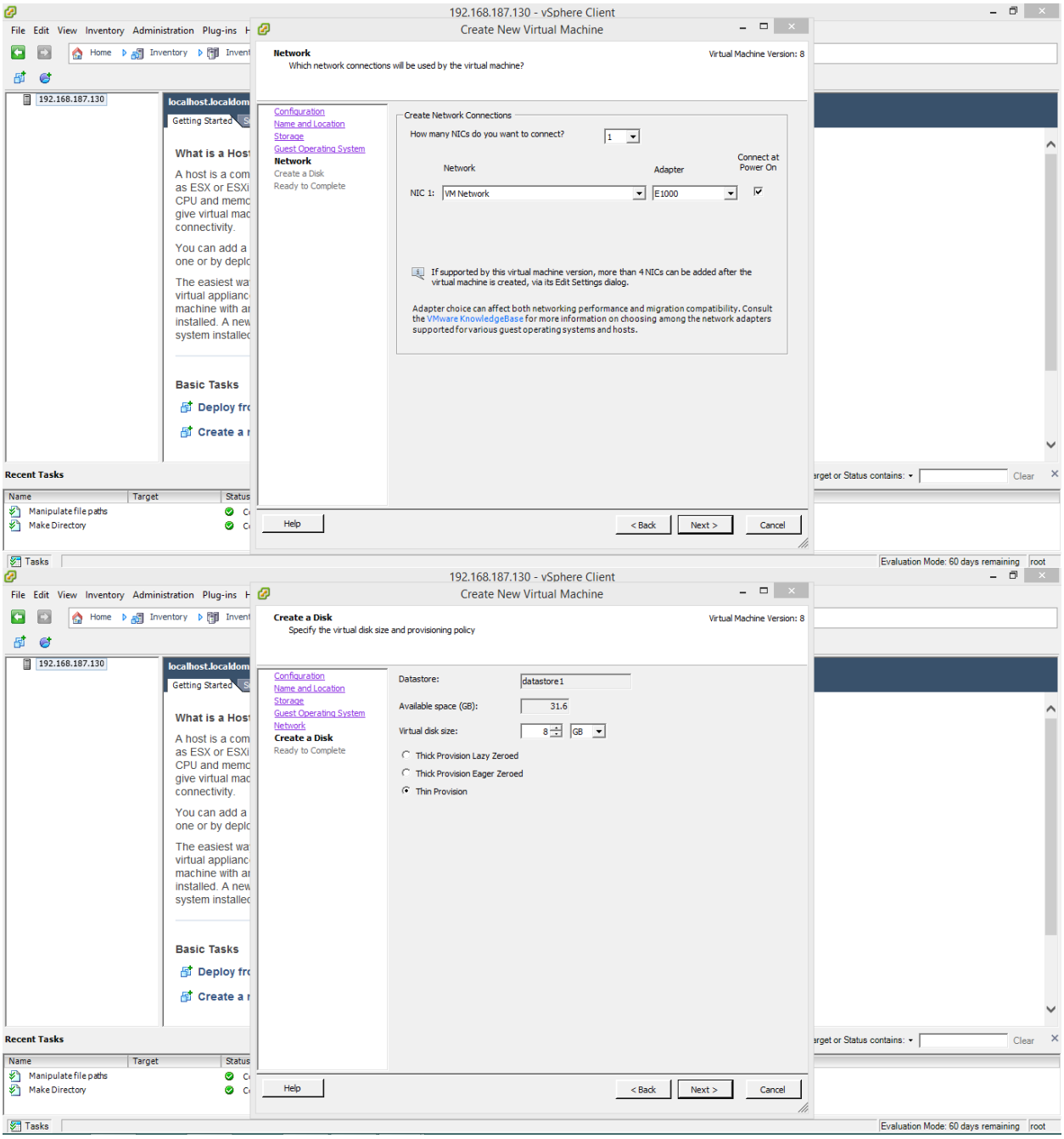

192.168.187.130 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.187.130
localhost.localdomain VMware ESXi, 5.5.0, 2068190 | Evaluation (60 days remaining)
Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions
Datastore Browser - [datastore1]
Upload Items
This PC Local Disk (D:)
Search Local Disk (D:)
Organize New folder
Recent places
OneDrive
This PC
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
Local Disk (D:)
Name Date modified Type
install.res.1040.dll 11/7/2007 8:03 AM Applicati
install.res.1041.dll 11/7/2007 8:03 AM Applicati
install.res.1042.dll 11/7/2007 8:03 AM Applicati
install.res.2052.dll 11/7/2007 8:03 AM Applicati
install.res.3082.dll 11/7/2007 8:03 AM Applicati
IT13249212 3/3/2016 5:59 PM WinRAR
kali-linux-2.0-amd64 8/20/2015 11:11 PM Disc Imag
KEY 8/9/2015 10:38 PM Text Doc
markdownpad2-setup 7/6/2016 8:57 PM Applicati
MarkUps-Rex 5/10/2016 12:32 PM WinRAR
netbeans-8.0.2-windows 11/30/2014 4:42 AM Applicati
Ride.Along.2.2016.HC.720p.WEBRiP.900MB.ShAa... 2/19/2016 7:21 PM VLC med
File name: kali-linux-2.0-amd64
Open Cancel
Recent Tasks
Name, Target or Status contains:
Clear
Name Target
Make Directory
Auto power On
Tasks
Evaluation Mode: 60 days remaining root
192.168.187.130 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
Uploading...
D:\kali-linux-2.0-amd64.iso
From D:\kali-linux-2.0-amd64.iso to [datastore1] ISO_Files/kali-linux-2.0-amd64.iso
Cancel
Evaluation (60 days remaining)
Datastore Browser - [datastore1]
Size Type Path
Host Profile: N/A
Image Profile: ESXi-5.5.0-20140902001-st...
Recent Tasks
Name, Target or Status contains:
Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Manipulate file paths Completed root 8/14/2016 3:16:36 PM 8/14/2016 3:16:36 PM 8/14/2016 3:16:36 PM
Make Directory Completed root 8/14/2016 3:14:40 PM 8/14/2016 3:14:40 PM 8/14/2016 3:14:40 PM
Tasks
Evaluation Mode: 60 days remaining root

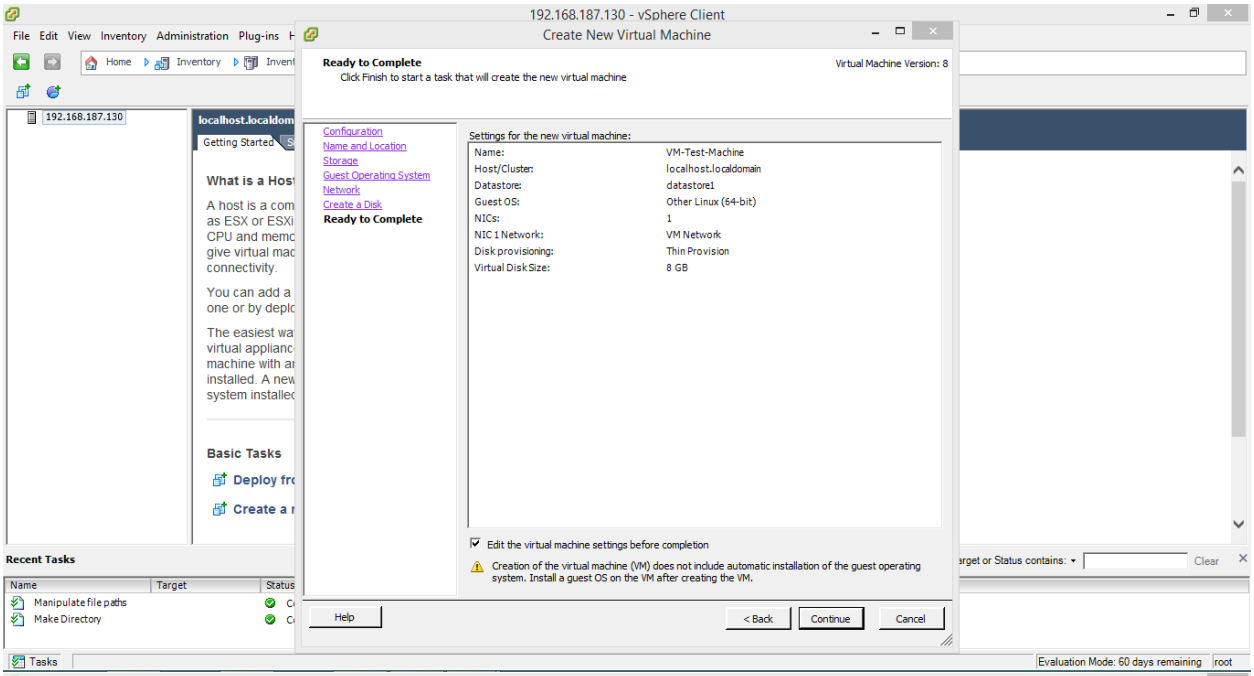

192.168.187.130 - vSphere Client
Create New Virtual Machine
Configuration
Select the configuration for the virtual machine
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Guest Operating System
Network
Create a Disk
Ready to Complete
Typical
Create a new virtual machine with the most common devices and configuration options.
Custom
Create a virtual machine with additional devices or specific configuration options.
Help
< Back
Next >
Cancel
Recent Tasks
Manipulate file paths
Make Directory
Tasks
Evaluation Mode: 60 days remaining
root

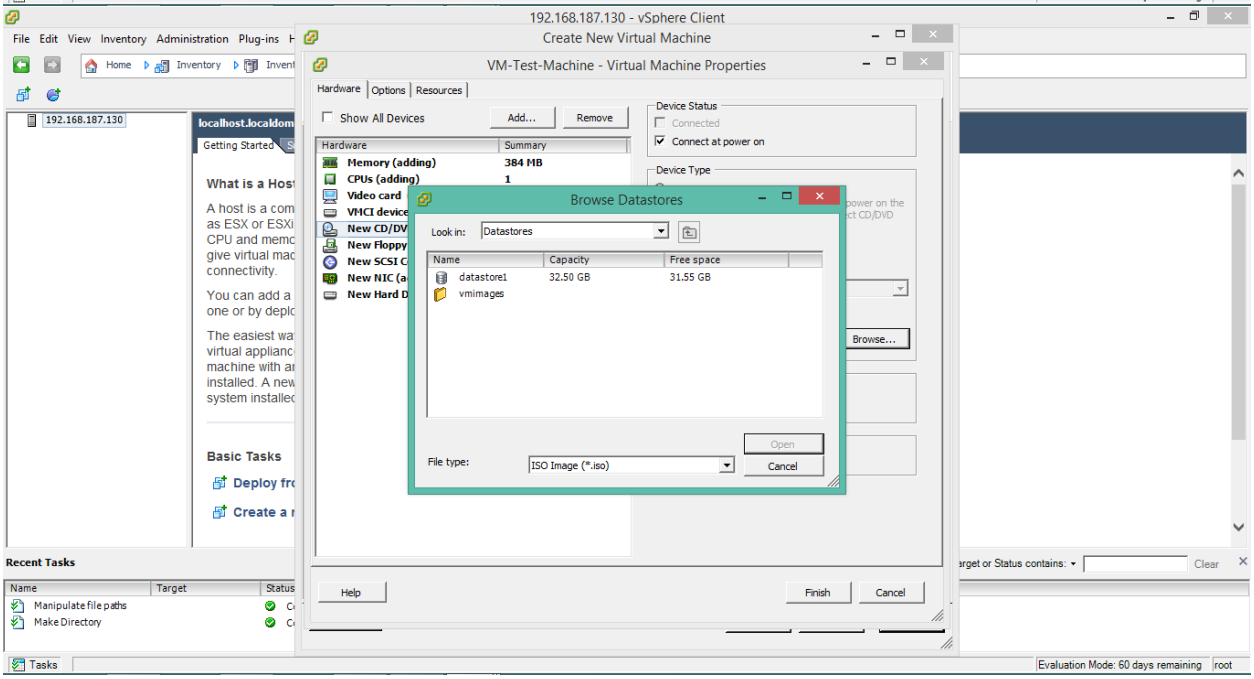

192.168.187.130 - vSphere Client
Create New Virtual Machine
Name and Location
Specify a name and location for this virtual machine
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Guest Operating System
Network
Create a Disk
Ready to Complete
Name:
VM-Test-Machine
Virtual machine (VM) names may contain up to 80 characters and they must be unique within each vCenter Server VM folder.
VM folders are not viewable when connected directly to a host. To view VM folders and specify a location for this VM, connect to the vCenter Server.
Help
< Back
Next >
Cancel
Recent Tasks
Manipulate file paths
Make Directory
Tasks
Evaluation Mode: 60 days remaining
root

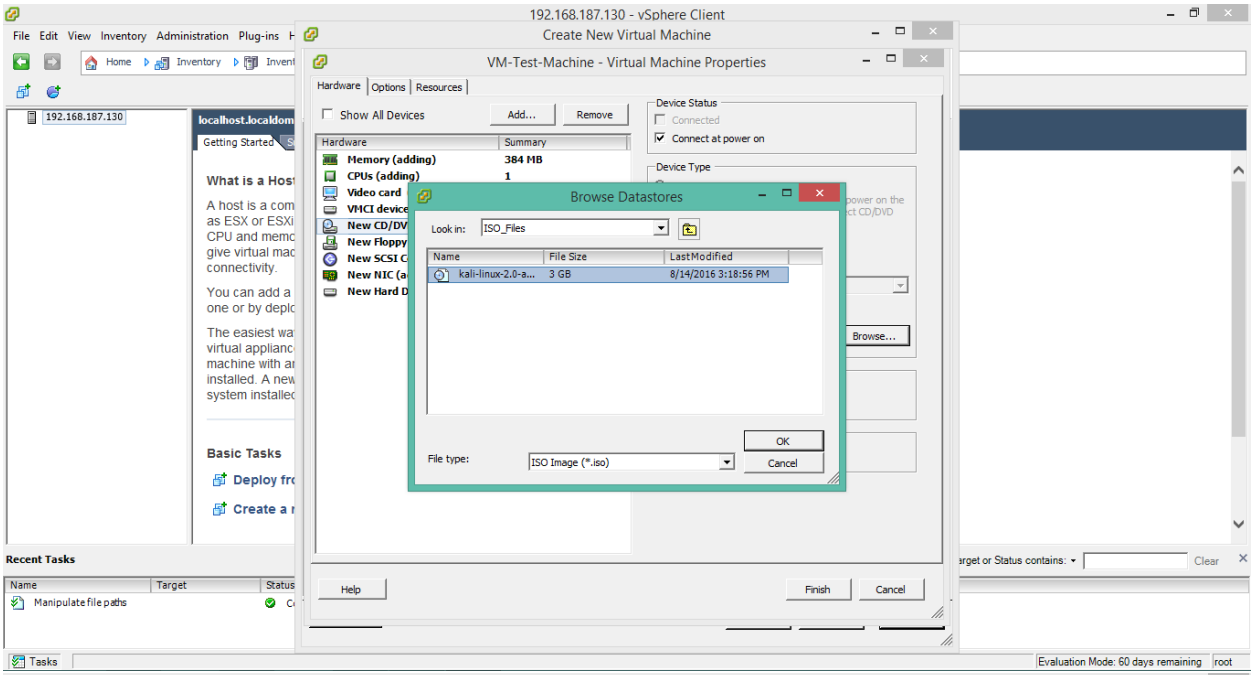

192.168.187.130 - vSphere Client
Create New Virtual Machine
Storage
Select a destination storage for the virtual machine files
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Guest Operating System
Network
Create a Disk
Ready to Complete
Select a destination storage for the virtual machine files:
Name
Drive Type
Capacity
Provisioned
Free
Type
datastore1
Non-SSD
32.50 GB
972.00 MB
31.55 GB
VMFS5
Disable Storage DRS for this virtual machine
Select a datastore:
Help
< Back
Next >
Cancel
Recent Tasks
Manipulate file paths
Make Directory
Tasks
Evaluation Mode: 60 days remaining
root

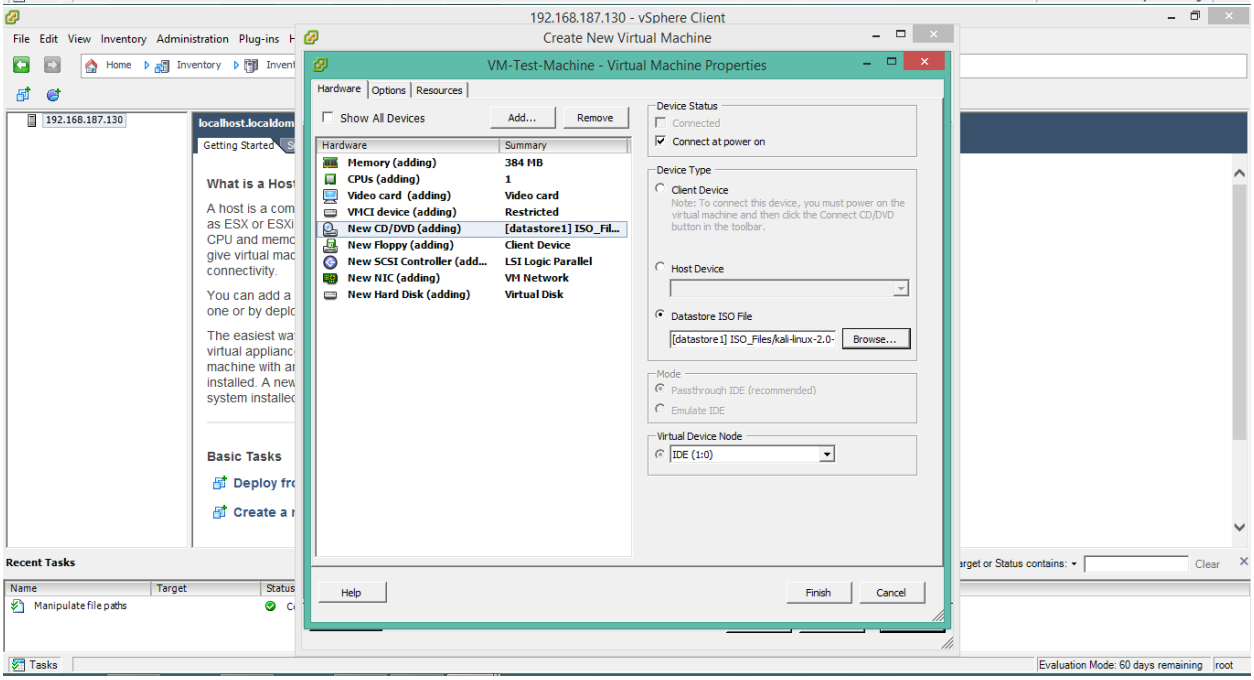

192.168.187.130 - vSphere Client
Create New Virtual Machine
Guest Operating System
Specify the guest operating system to use with this virtual machine
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Guest Operating System
Network
Create a Disk
Ready to Complete
Guest Operating System:
Windows
Linux
Other
Version:
Other Linux (64-bit)
Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.
Help
< Back
Next >
Cancel
Recent Tasks
Manipulate file paths
Make Directory
Tasks
Evaluation Mode: 60 days remaining
root

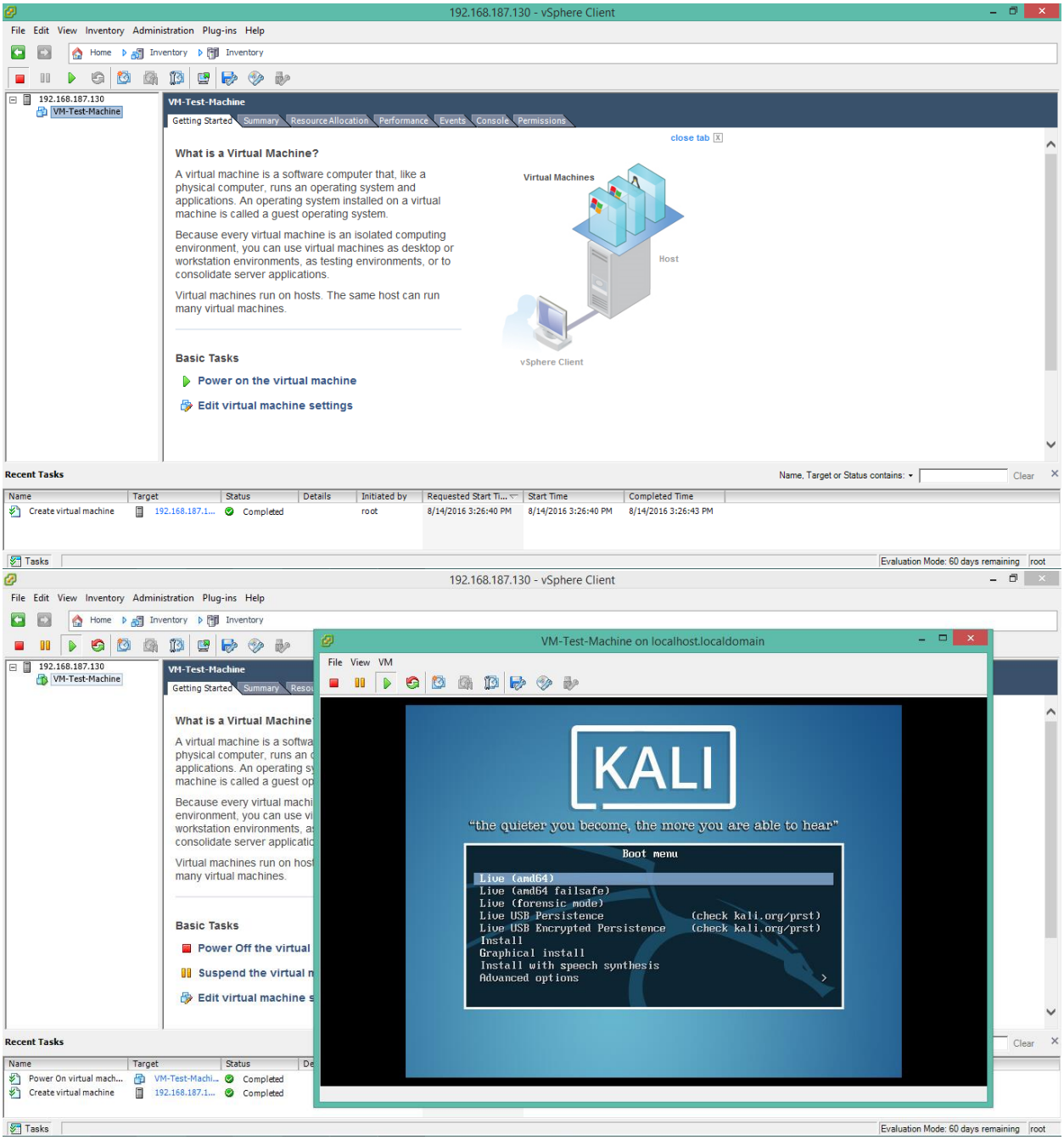

192.168.187.130 - vSphere Client
Create New Virtual Machine
Network
Which network connections will be used by the virtual machine?
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Guest Operating System
Network
Create a Disk
Ready to Complete
Create Network Connections
How many NICs do you want to connect?
Network
Adapter
Connect at Power On
NIC 1:
VM Network
E1000
If supported by this virtual machine version, more than 4 NICs can be added after the virtual machine is created, via its Edit Settings dialog.
Adapter choice can affect both networking performance and migration compatibility. Consult the VMware KnowledgeBase for more information on choosing among the network adapters supported for various guest operating systems and hosts.
Help
< Back
Next >
Cancel
192.168.187.130 - vSphere Client
Create New Virtual Machine
Create a Disk
Specify the virtual disk size and provisioning policy
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Guest Operating System
Network
Create a Disk
Ready to Complete
Datastore:
datastore1
Available space (GB):
31.6
Virtual disk size:
8
GB
Thick Provision Lazy Zeroed
Thick Provision Eager Zeroed
Thin Provision
Help
< Back
Next >
Cancel

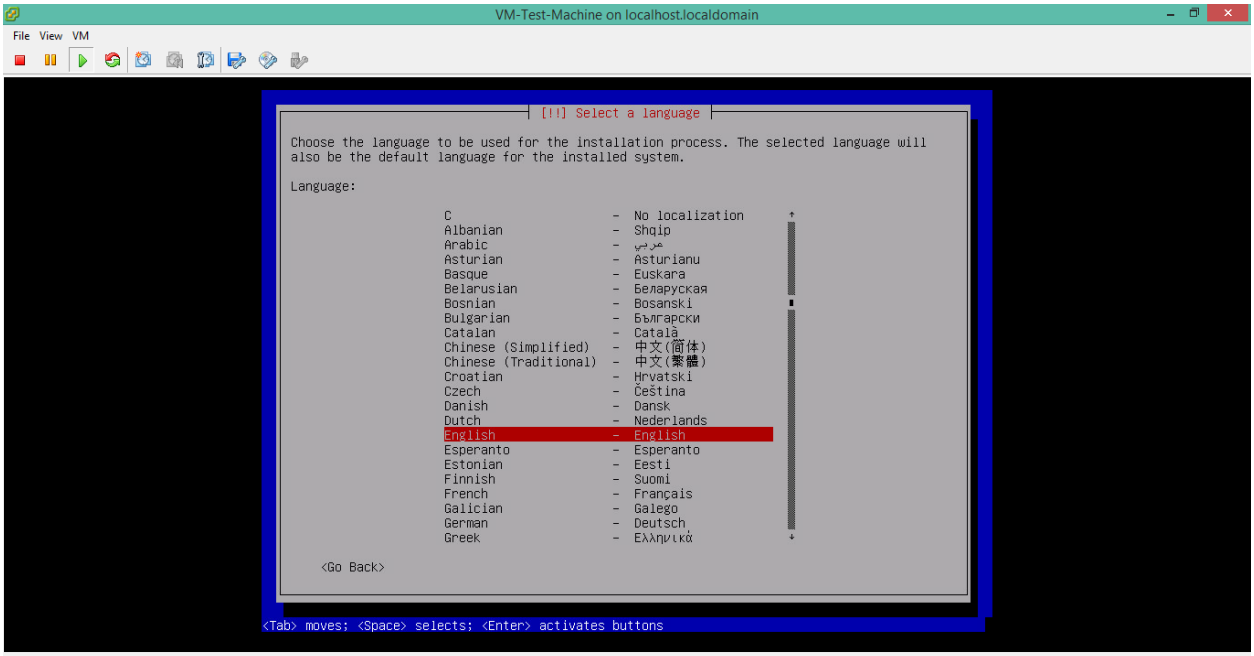

192.168.187.130 - vSphere Client
Create New Virtual Machine
Ready to Complete
Click Finish to start a task that will create the new virtual machine
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Guest Operating System
Network
Create a Disk
Ready to Complete
Settings for the new virtual machine:
Name: VM-Test-Machine
Host/Cluster: localhost.localdomain
Datastore: datastore1
Guest OS: Other Linux (64-bit)
NICs: 1
NIC 1 Network: VM Network
Disk provisioning: Thin Provision
Virtual Disk Size: 8 GB
Edit the virtual machine settings before completion
Creation of the virtual machine (VM) does not include automatic installation of the guest operating system. Install a guest OS on the VM after creating the VM.
Help
< Back
Continue
Cancel

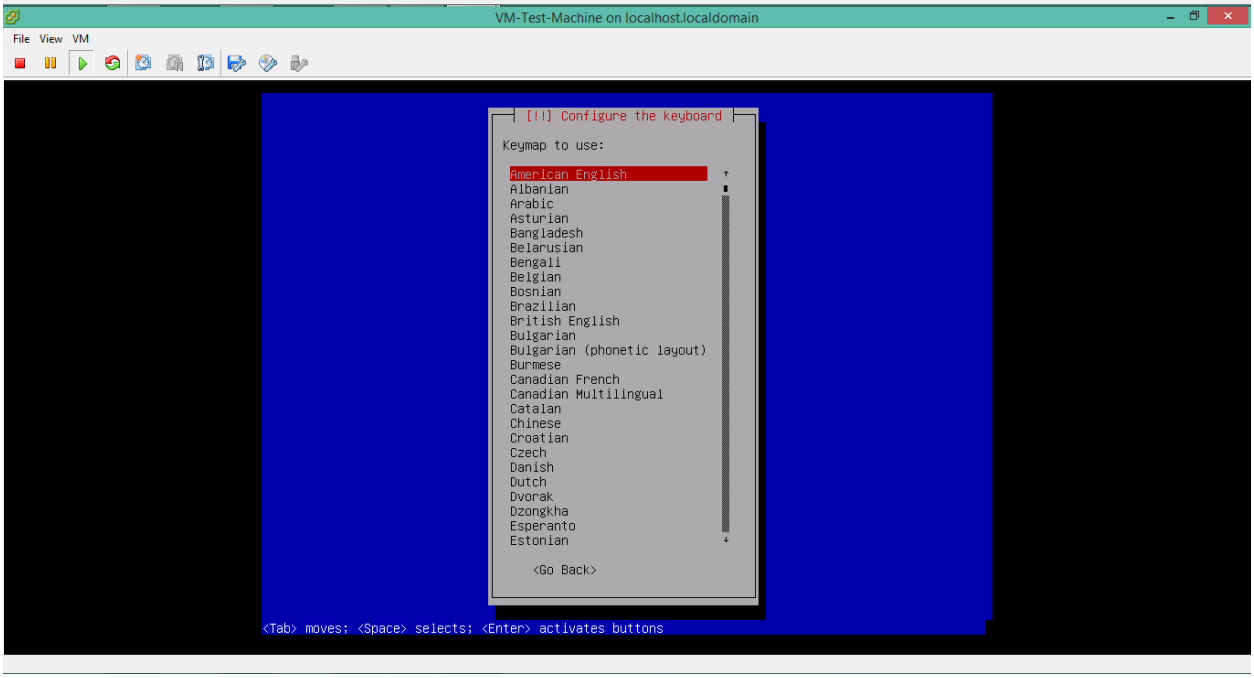

192.168.187.130 - vSphere Client
Create New Virtual Machine
VM-Test-Machine - Virtual Machine Properties
Hardware
Options
Resources
Show All Devices
Add...
Remove
Device Status
Connected
Connect at power on
Device Type
Memory (adding) 384 MB
CPUs (adding) 1
Video card
VMCI device
New CD/DV
New Floppy
New SCSI C
New NIC (a
New Hard D
Browse Datastores
Look in: Datastores
Name
Capacity
Free space
datastore1 32.50 GB 31.55 GB
vmimages
File type: ISO Image (*.iso)
Open
Cancel
Browse...
Help
Finish
Cancel

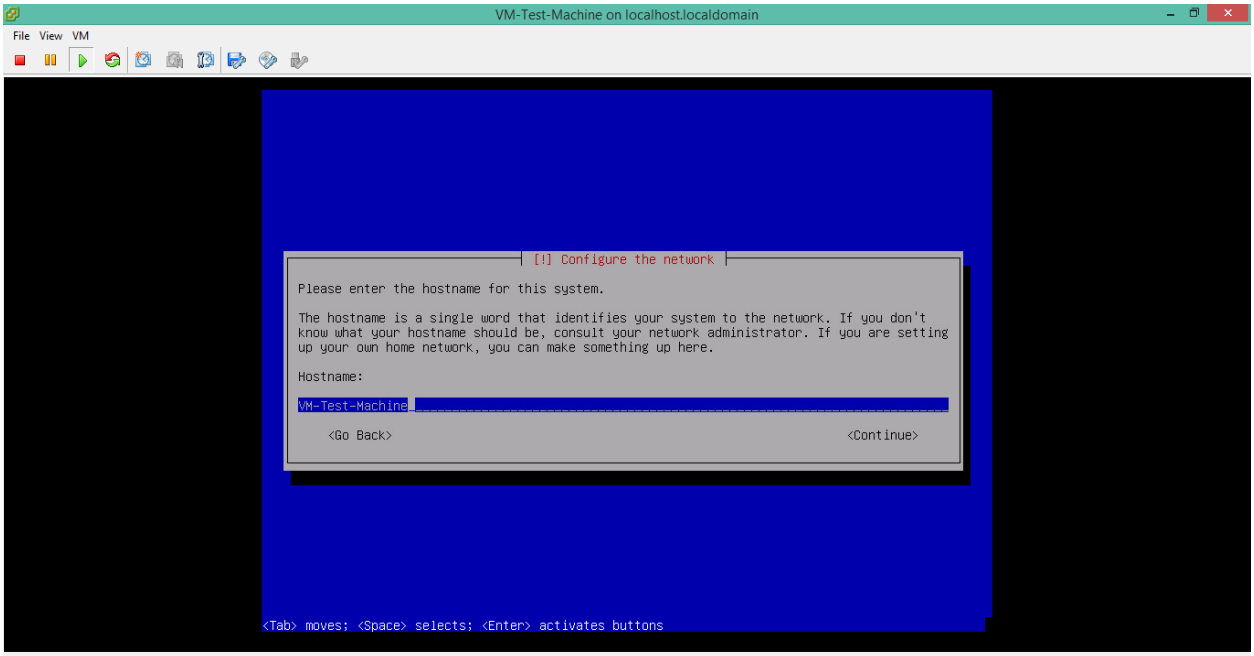

192.168.187.130 - vSphere Client
Create New Virtual Machine
VM-Test-Machine - Virtual Machine Properties
Browse Datastores
Look in: ISO_Files
kali-linux-2.0-a... 3 GB 8/14/2016 3:18:56 PM
File type: ISO Image (*.iso)
OK
Cancel
Hardware
Options
Resources
Memory (adding) 384 MB
CPUs (adding) 1
Device Status
Connected
Connect at power on
Device Type
Browse...
Help
Finish
Cancel
Recent Tasks
Manipulate file paths
Evaluation Mode: 60 days remaining

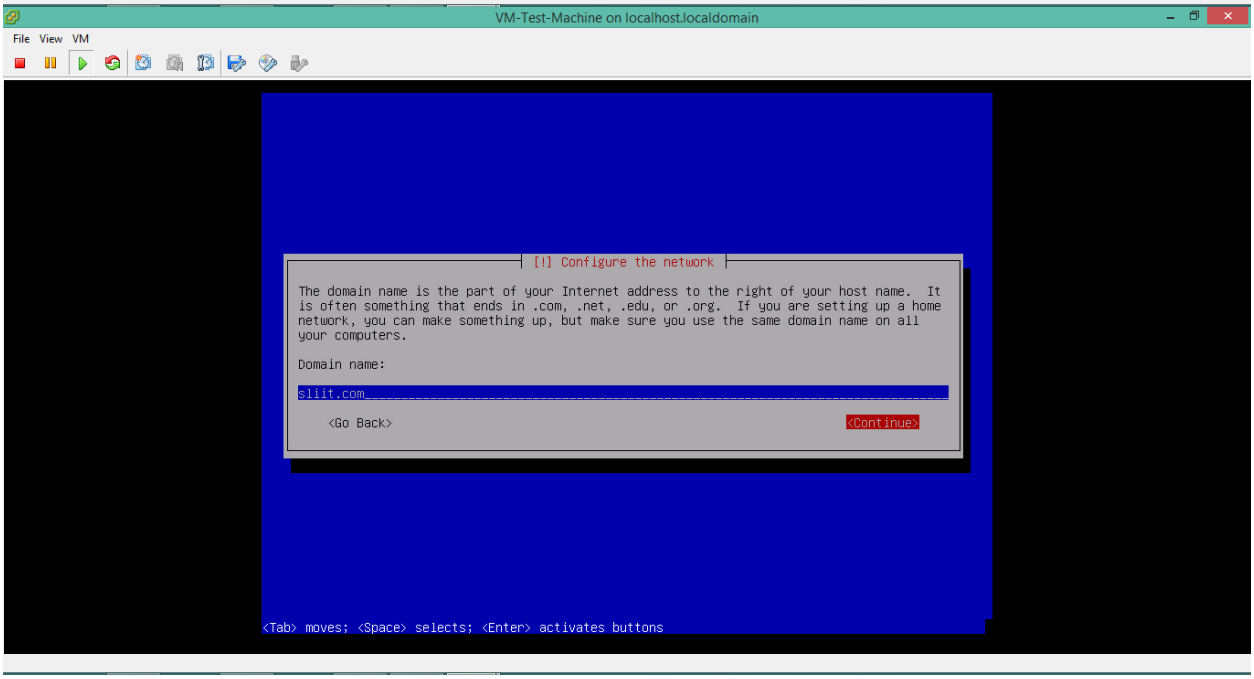

192.168.187.130 - vSphere Client
Create New Virtual Machine
VM-Test-Machine - Virtual Machine Properties
Hardware
Options
Resources
Memory (adding) 384 MB
CPUs (adding) 1
Video card (adding) Video card
VMCI device (adding) Restricted
New CD/DVD (adding) [datastore1] ISO_Fil...
New Floppy (adding) Client Device
New SCSI Controller (add... LSI Logic Parallel
New NIC (adding) VM Network
New Hard Disk (adding) Virtual Disk
Device Status
Connected
Connect at power on
Device Type
Client Device
Host Device
Datastore ISO File
[datastore1] ISO_Files/kali-linux-2.0-
Browse...
Mode
Passthrough IDE (recommended)
Emulate IDE
Virtual Device Node
IDE (1:0)
Help
Finish
Cancel
Recent Tasks
Manipulate file paths
Evaluation Mode: 60 days remaining

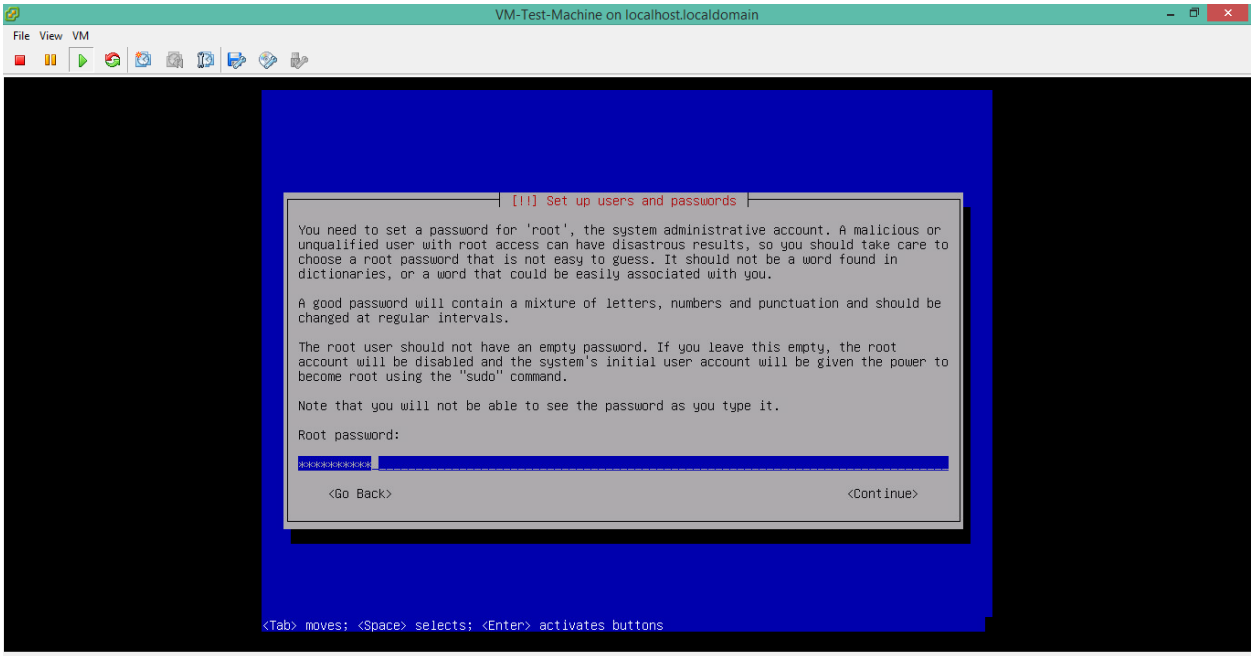

192.168.187.130 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.187.130
VM-Test-Machine
VM-Test-Machine
Getting Started Summary Resource Allocation Performance Events Console Permissions
close tab
What is a Virtual Machine?
A virtual machine is a software computer that, like a physical computer, runs an operating system and applications. An operating system installed on a virtual machine is called a guest operating system.
Because every virtual machine is an isolated computing environment, you can use virtual machines as desktop or workstation environments, as testing environments, or to consolidate server applications.
Virtual machines run on hosts. The same host can run many virtual machines.
Virtual Machines
Host
vSphere Client
Basic Tasks
Power on the virtual machine
Edit virtual machine settings
Recent Tasks
Name, Target or Status contains:
Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Create virtual machine 192.168.187.1... Completed root 8/14/2016 3:26:40 PM 8/14/2016 3:26:40 PM 8/14/2016 3:26:43 PM
Tasks
Evaluation Mode: 60 days remaining
root
192.168.187.130 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
VM-Test-Machine on localhost.localdomain
File View VM
KALI
"the quieter you become, the more you are able to hear"
Boot menu
Live (amd64)
Live (amd64 failsafe)
Live (forensic mode)
Live USB Persistence (check kali.org/prst)
Live USB Encrypted Persistence (check kali.org/prst)
Install
Graphical install
Install with speech synthesis
Advanced options
Power Off the virtual
Suspend the virtual
Edit virtual machine
Recent Tasks
Power On virtual mach... VM-Test-Machi... Completed
Create virtual machine 192.168.187.1... Completed
Tasks
Evaluation Mode: 60 days remaining
root

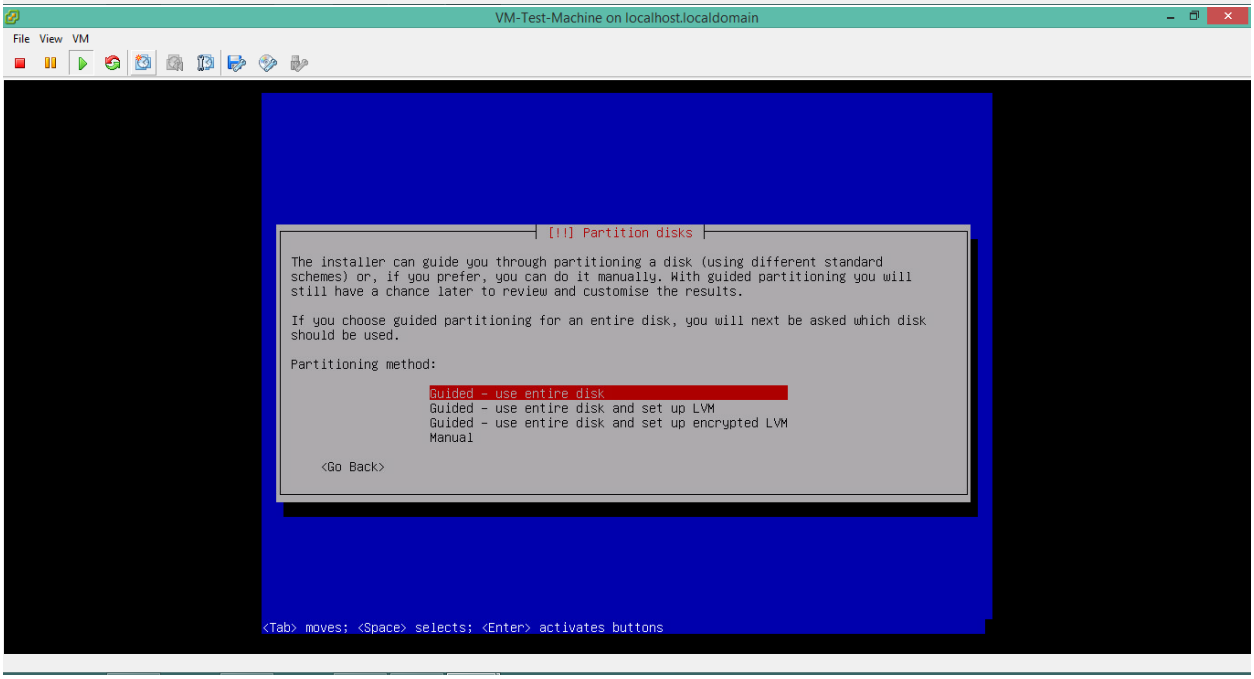

VM-Test-Machine on localhost.localdomain
File View VM
[!!] Select a language
Choose the language to be used for the installation process. The selected language will also be the default language for the installed system.
Language:
C - No localization
Albanian - Shqip
Arabic - عربي
Asturian - Asturianu
Basque - Euskara
Belarusian - Беларуская
Bosnian - Bosanski
Bulgarian - Български
Catalan - Català
Chinese (Simplified) - 中文(简体)
Chinese (Traditional) - 中文(繁體)
Croatian - Hrvatski
Czech - Čeština
Danish - Dansk
Dutch - Nederlands
English - English
Esperanto - Esperanto
Estonian - Eesti
Finnish - Suomi
French - Français
Galician - Galego
German - Deutsch
Greek - Ελληνικά
<Go Back>
<Tab> moves; <Space> selects; <Enter> activates buttons

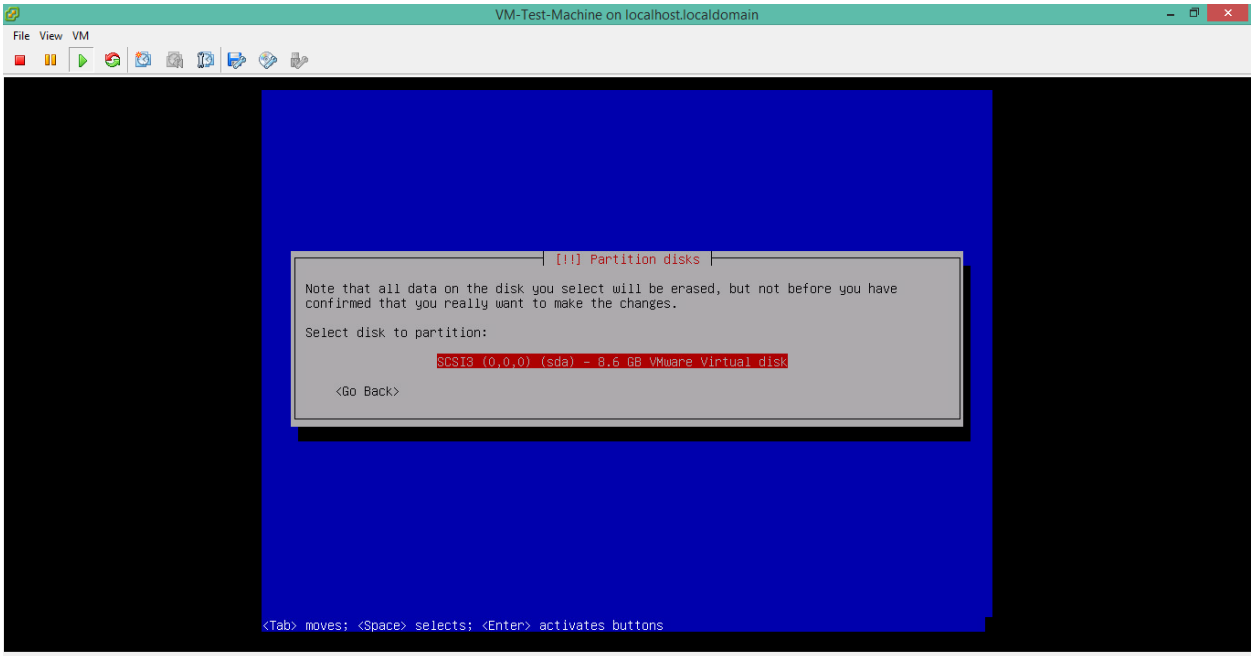

VM-Test-Machine on localhost.localdomain
File View VM
[!!] Configure the keyboard
Keymap to use:
American English
Albanian
Arabic
Asturian
Bangladesh
Belarusian
Bengali
Belgian
Bosnian
Brazilian
British English
Bulgarian
Bulgarian (phonetic layout)
Burmese
Canadian French
Canadian Multilingual
Catalan
Chinese
Croatian
Czech
Danish
Dutch
Dvorak
Dzongkha
Esperanto
Estonian
<Go Back>
<Tab> moves; <Space> selects; <Enter> activates buttons

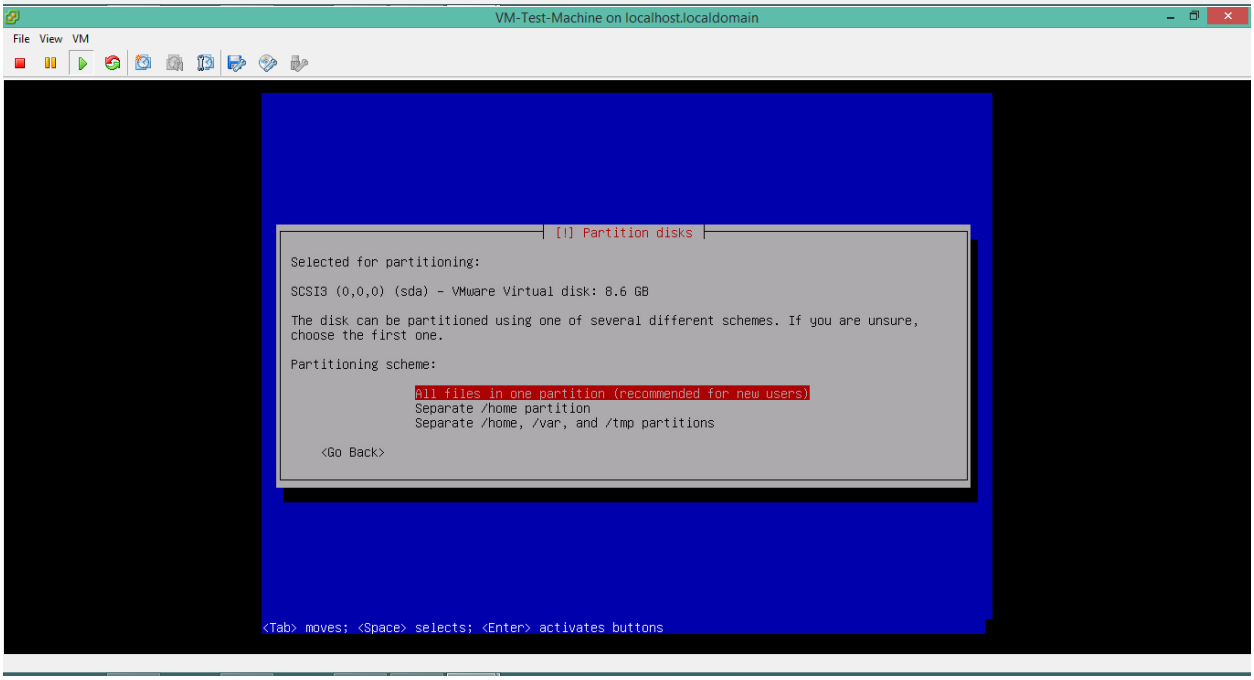

VM-Test-Machine on localhost.localdomain
File View VM
[!] Configure the network
Please enter the hostname for this system.
The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consult your network administrator. If you are setting up your own home network, you can make something up here.
Hostname:
VM-Test-Machine
<Go Back>
<Continue>
<Tab> moves; <Space> selects; <Enter> activates buttons

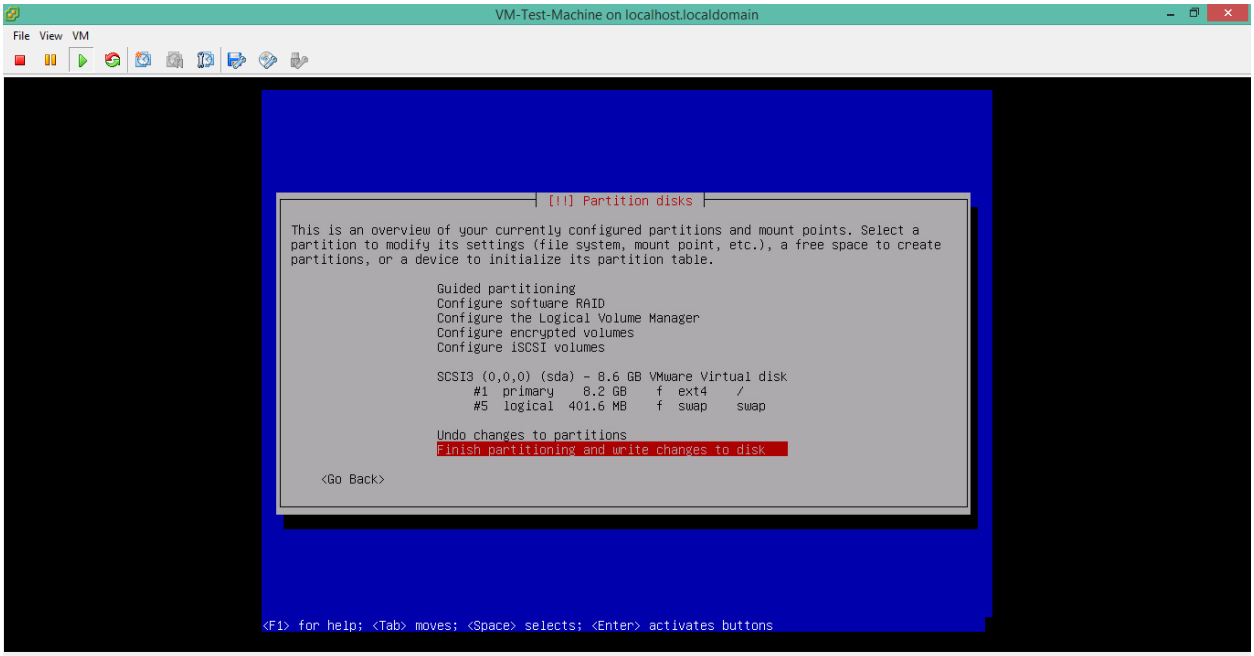

VM-Test-Machine on localhost.localdomain
File View VM
[!] Configure the network
The domain name is the part of your Internet address to the right of your host name. It is often something that ends in .com, .net, .edu, or .org. If you are setting up a home network, you can make something up, but make sure you use the same domain name on all your computers.
Domain name:
sliit.com
<Go Back>
<Continue>
<Tab> moves; <Space> selects; <Enter> activates buttons

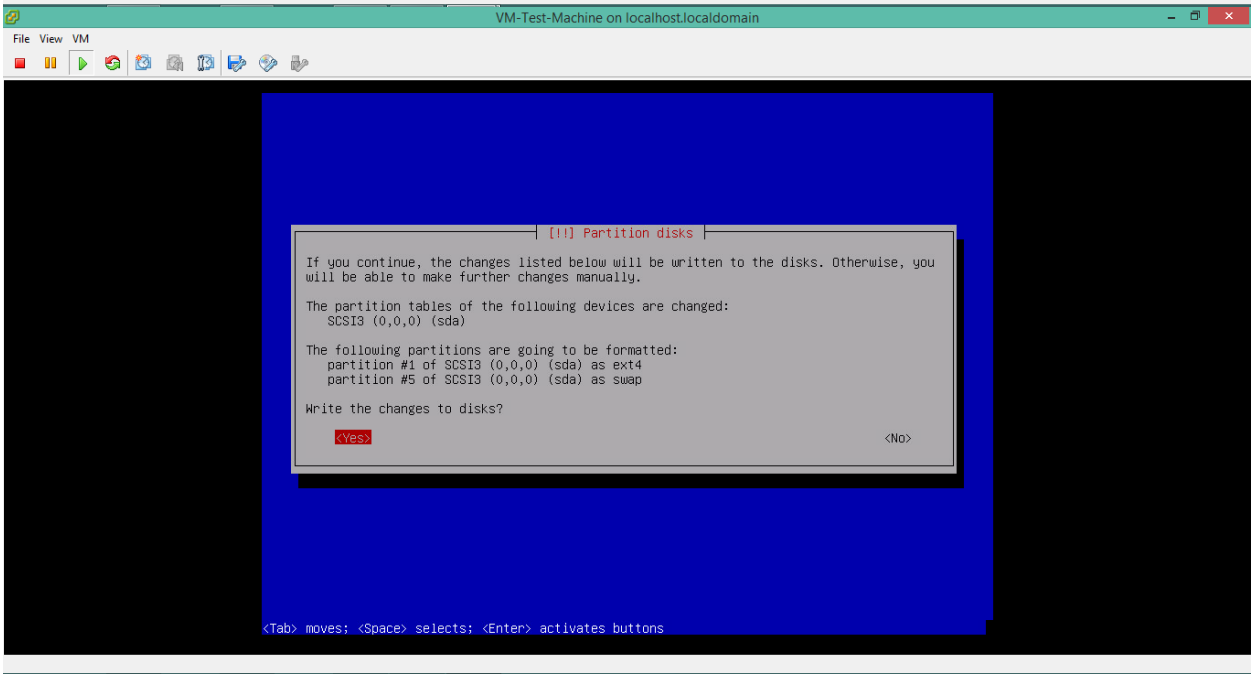

VM-Test-Machine on localhost.localdomain
File View VM
[!!] Set up users and passwords
You need to set a password for 'root', the system administrative account. A malicious or unqualified user with root access can have disastrous results, so you should take care to choose a root password that is not easy to guess. It should not be a word found in dictionaries, or a word that could be easily associated with you.
A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.
The root user should not have an empty password. If you leave this empty, the root account will be disabled and the system's initial user account will be given the power to become root using the "sudo" command.
Note that you will not be able to see the password as you type it.
Root password:
****
<Go Back>
<Continue>
<Tab> moves; <Space> selects; <Enter> activates buttons

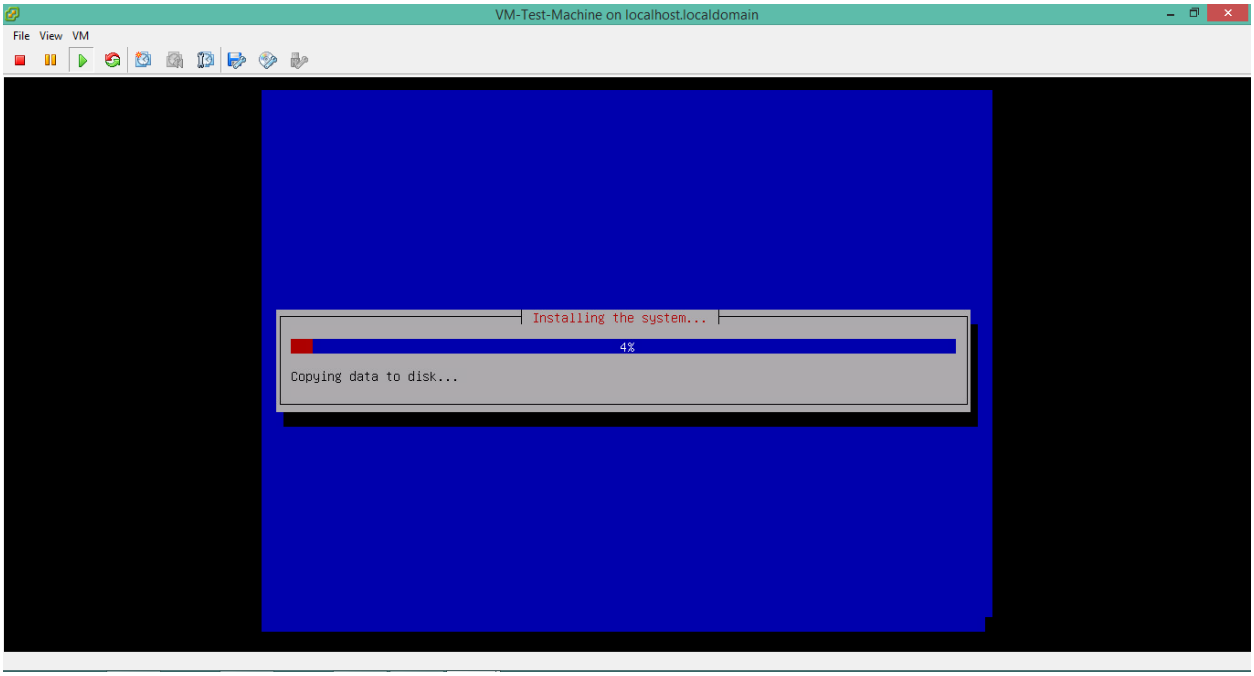

VM-Test-Machine on localhost.localdomain
File View VM
[!!] Partition disks
The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results.
If you choose guided partitioning for an entire disk, you will next be asked which disk should be used.
Partitioning method:
Guided - use entire disk
Guided - use entire disk and set up LVM
Guided - use entire disk and set up encrypted LVM
Manual
<Go Back>
<Tab> moves; <Space> selects; <Enter> activates buttons


VM-Test-Machine on localhost.localdomain
File View VM
[!!] Partition disks
Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes.
Select disk to partition:
SCSI3 (0,0,0) (sda) - 8.6 GB VMware Virtual disk
<Go Back>
<Tab> moves; <Space> selects; <Enter> activates buttons


VM-Test-Machine on localhost.localdomain
File View VM
[!] Partition disks
Selected for partitioning:
SCSI3 (0,0,0) (sda) - VMware Virtual disk: 8.6 GB
The disk can be partitioned using one of several different schemes. If you are unsure, choose the first one.
Partitioning scheme:
All files in one partition (recommended for new users)
Separate /home partition
Separate /home, /var, and /tmp partitions
<Go Back>
<Tab> moves; <Space> selects; <Enter> activates buttons


VM-Test-Machine on localhost.localdomain
File View VM
[!!] Partition disks
This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.
Guided partitioning
Configure software RAID
Configure the Logical Volume Manager
Configure encrypted volumes
Configure iSCSI volumes
SCSI3 (0,0,0) (sda) - 8.6 GB VMware Virtual disk
#1 primary 8.2 GB f ext4 /
#5 logical 401.6 MB f swap swap
Undo changes to partitions
Finish partitioning and write changes to disk
<Go Back>
<F1> for help; <Tab> moves; <Space> selects; <Enter> activates buttons


VM-Test-Machine on localhost.localdomain
File View VM
[!!] Partition disks
If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.
The partition tables of the following devices are changed:
SCSI3 (0,0,0) (sda)
The following partitions are going to be formatted:
partition #1 of SCSI3 (0,0,0) (sda) as ext4
partition #5 of SCSI3 (0,0,0) (sda) as swap
Write the changes to disks?
<Yes>
<No>
<Tab> moves; <Space> selects; <Enter> activates buttons


VM-Test-Machine on localhost.localdomain
File View VM
Installing the system...
4%
Copying data to disk...