1. Launch New Virtual Machine Wizard, select Custom.



2. Set to latest hardware compatibility.

New Virtual Machine Wizard					
Choose the Virtual Machine Hardware Compatibility Which hardware features are needed for this virtual machine?					
Virtual machine hardware	compatibility				
Hardware compatibility:	Workstation 15.x	•			
Compatible with:	✓ ESX Server				
Compatible products:	Limitations:				
Fusion 11.x Workstation 15.x	64 GB memory 16 processors 10 network adapters 8 TB disk size 3 GB shared graphics memory				
Help	< Back Next > Cancel				

3. Set to XOS.iso installer disc image.

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 <u>d</u> isc:	
No drives available $\checkmark$	
Installer disc image file (iss):	
Tristaller disc image file (iso):	
C:\Users\ssinger\Local Documents\Extreme Networks\ > Browse	
Could not detect which operating system is in this disc image. You will need to specify which operating system will be installed.	
○ I will in <u>s</u> tall the operating system later.	
The virtual machine will be created with a blank hard disk.	
Help         < Back         Next >         Cancel	

4. Set Guest OS to Linux and Debian 5, 64-bit. Use Debian 4, 64-bit on ESXi.

New Virtual Machine Wizard	<
Select a Guest Operating System Which operating system will be installed on this virtual machine?	
Guest operating system	
○ Microsoft <u>W</u> indows	
○ VMware ES <u>X</u>	
○ <u>O</u> ther	
Version	
Debian 5 64-bit	
Help         < Back         Next >         Cancel	

5. Chose VM name and file location.

New Virtual Machine Wizard	×
Name the Virtual Machine What name would you like to use for this virtual machin	ne?
Virtual machine name:	
Location:	
C:\Users\ssinger\Local Documents\Virtual Machines	Browse
The default location can be changed at Edit > Preferences.	
< <u>B</u> ack <u>N</u> ext	> Cancel

6. Choose one processor and two cores.

New Virtual Machine Wizard			×
Processor Configuration Specify the number of processors for this virtual machine.			
Processors			
Number of processors:	1	$\sim$	
Number of cores per processor:	2	~	
Total processor cores:	2		
Help	< <u>B</u> ack	<u>N</u> ext >	Cancel

#### 7. Set RAM to 1GB.

New Virtual I	Machine Wizard X		
Memory for the Virtual Machine How much memory would you like to use for this virtual machine?			
Specify the a must be a mu	mount of memory allocated to this virtual machine. The memory size ltiple of 4 MB.		
64 GB - 32 GB - 16 GB -	Memory for this virtual machine:		
8 GB - 4 GB - 2 GB - 1 GB -	Maximum recommended memory: 13.4 GB		
512 MB - 256 MB - 128 MB -	Recommended memory: 2 GB		
64 MB - 32 MB - 16 MB - 8 MB -	Guest OS recommended minimum: 1 GB		
4 MB -			
Help	< Back Next > Cancel		

8. Choose network connection. I usually use bridged to local network for port 1, which is the Mgmt VLAN and port. Others I usually contain to the VM environment.

New Virtual Machine Wizard	×			
Network Type What type of network do you want to add?				
Network connection				
○ Use b <u>ri</u> dged networking				
Give the guest operating system direct access to an external Ethernet network. The guest must have its own IP address on the external network.				
O Use network address translation (NAT)				
Give the guest operating system access to the host computer's dial-up or external Ethernet network connection using the host's IP address.				
Use host-only networking Connect the guest operating system to a private virtual network on the host computer.	:			
○ Do no <u>t</u> use a network connection				
Help < Back Next > Cancel				

# 9. Choose LSI Logic.

New Virtual Machine Wizard	×
Select I/O Controller Types Which SCSI controller type would you like to use?	
I/O controller types	
SCSI Controller:	
BusLogic (Not available for 64-bit guests)	
● <u>ISI Logic</u> (Recommended)	
◯LSI Logic <u>S</u> AS	
O <u>P</u> aravirtualized SCSI	
Help < <u>B</u> ack <u>N</u> ext > Cancel	

### 10. Choose IDE drive.

New Virtual	Machine Wizard			×
Select a What	<b>Disk Type</b> kind of disk do you wa	nt to create?		
Virtual disk t	type			
IDE				
◯ <u>s</u> csi	(Recommended)			
⊖ s <u>a</u> ta				
○ N <u>V</u> Me				
💭 NVMe	disks are not supported	l by Debian 564	-bit.	
Help		< <u>B</u> ack	<u>N</u> ext >	Cancel

## 11. Create new virtual disk.

New Virtual Machine Wizard	<
Select a Disk Which disk do you want to use?	
Disk	
• Create a new <u>v</u> irtual disk	
A virtual disk is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.	
O Use an existing virtual disk	
Choose this option to reuse a previously configured disk.	
O Use a physical disk (for advanced users)	
Choose this option to give the virtual machine direct access to a local hard disk. Requires administrator privileges.	
Help < <u>B</u> ack <u>N</u> ext > Cancel	

#### 12. Set the disk size to at least 4GB.

New Virtual Machine Wizard $ imes$
Specify Disk Capacity How large do you want this disk to be?
Maximum disk size (GB): 4 - Recommended size for Debian 5 64-bit: 20 GB
<ul> <li>Allocate all disk space now.</li> <li>Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.</li> <li>Store virtual disk as a single file</li> <li>Split virtual disk into <u>multiple</u> files</li> <li>Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.</li> </ul>
Help         < Back         Next >         Cancel

# 13. Confirm disk file name and location.

New Virtual Machine Wizard		$\times$
Specify Disk File Where would you like to store the disk file?		
Disk file		
A 4 GB virtual disk be created using multiple disk files. The disk f automatically named based on this file name.	iles will be	
EXOS-1.vmdk	Browse	
Help < <u>B</u> ack <u>N</u> ext >	Cancel	

## 14. Select "Customize Hardware" before finishing.

Ne	ew Virtual Machine	Wizard	$\times$
	Ready to Create Click Finish to o 64-bit.	Virtual Machine reate the virtual machine. Then you can install Debian 5	
1	The virtual machine v	vill be created with the following settings:	
	Name:	EXOS-1	^
	Location:	C:\Users\ssinger\Local Documents\Virtual Machines	
	Version:	Workstation 15.x	
	Operating System:	Debian 5 64-bit	
	Hard Disk:	4 GB, Split	
	Memory:	1024 MB	
	Network Adapter:	Host-only	
	Other Devices:	2 CPU cores, CD/DVD, USB Controller, Printer, Sound	Υ.
	<u>C</u> ustomize Hardwa	are	
		< <u>B</u> ack Finish Cancel	

15. Confirm CD is IDE 1:0. Hard drive should be IDE 0:0, but it's not editable until you create the VM. Add additional Network Adapters, up to 9 more, 10 total. The first Network Adapter is the Mgmt port in VR-Mgmt, the second Network Adapter is port 1 in VR-Default, the third is port 2, etc..

Device Memory Processors Network Adapter USB Controller USB Controller Printer Display	Summary 1 GB 2 Using file C: \L Host-only Present Auto detect Present Auto detect	Jsers\ssinger\L CD/DVD Advance O SATA SATA 0:0 O SCSI SCSI 0:0 © IDE IDE 1:0 N Troubleshooting Legacy emul OK	ew CD/DVD (II	tus cted ct at power on n nysical drive: detect X DE) V Help	Documents\Extrem  Browse Advanced.
	Add	Remove			

16. Edit Settings before powering on the VM. Change/confirm that the new Hard Disk is IDE and associated with IDE 0:0.

EXOS-1     Power on this virtual m     Edit virtual machine set	achine tings		_							_		
Devices IMmony IPrecessors IH-Hard Nik (IDE) So (CD/V00 (IDE) So (CD/V00 (IDE) So (CD/V00 (IDE) So	1 GB 2 4 GB Using file C/Use Hear-only Present Auto detect Present Stion of this vistual	1 GB 2 4 GB Using file CUbe Hoto-only Present Auto-detect: Present Auto-detect: on of this virtual	Virtual Machine Settings Virtual Machine Settings → Decide → Decides → D	Summary 1 d8 2 d8 Using file C Host-only Present Auto del Auto del	Literritanger L Vara Disk Advanced gittad device node IPE 60 IPE 60 IP	Dia fie Chereitangen kaal boor George Sprein ker 115 d Sprein	entstjik tual Mache Bie hard disk, uitige files, lacal volume, Free space, Jaco,	× erBOF.und Mg Deinguert Baant. Compat Advarod				
		Virtual Machine Details     Sate Powerd off     Configuration Re: Oliveration Rs: virtue     Primary Paraleses Network Information     Primary Paraleses Network Information	Il Documents(Virtual Machines) al machine mot available	Add EXOS-1.vmx	. Remove		OK Can	cel Help				

17. Start the VM. Choose "c" to continue and "y" to continue. Select "Enter" to reboot.

2) clear NVRAM after install"false"
c) continue
r)_rehoot
Ok to continue? (Y/N) y
**** Starting External Memory Card device
**** Copying rescue image to ramdisk
**** Partitioning Disk Device
**** Sufficiently large VM hard drive detected
**** Creating ext3 FS on /dev/hda1
**** Creating ext3 FS on /dev/hda2
**** Creating ext3 FS on /dev/hda5
**** Creating ext3 FS on /dev/hda6
**** Creating ext3 FS on /dev/hda7
**** Creating ext3 FS on /dev/hda8
**** Creating ext3 FS on /dev/hda9
**** Mounting Partitions
**** Checking Image Wrapper
**** Extract Upgrade Script
**** Execute Upgrade Script
Installing 30.1.1.4
Installation finished. No error reported.
**** Set default hoot partition to primary
***** press ENTER to reboot:

18. After reboot you'll be able to login. Wait for the switch boot process to move past the "pending-AAA" login. "Authentication Service (AAA)..." will be the indicator that the switch is ready for login. Hit any key to receive the login prompt.



19. Additional network adapters if necessary, up to 10 total.

Device	Summary	Memory Specify the amount of memory allocated to this virtual machine. The					
Memory	1 GB	memory size must be a multiple of 4 MB.					
Hard Dick (TDE)	4_CB	Manager for this sink of an abirat	24 A MP				
CD/DVD (IDE)	Add Hardware Wizard Hardware Type What type of hardware do	o you want to install?	×				
🛱 Printer	I fander an familie	Evelope No.	commended memory				
L_JDisplay	Hardware types:	Add a network adapter.	apping may d this size.)				
	Construction     Sound Card     Parallel Port     Printer     Generic SCSI Device     Generic SCSI Device     Trusted Platform Module		ed memory				
		Finish Cance	E				