



ESXI S.O.P.

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This document will serve as the guide to ESXI installation and usage for operations.

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ESXI Overview

ESXI is a type 1 hypervisor developed by VMWare for deploying and serving virtual computers. In our networks, we install it on a CyberPac, a type of mobile server. All of our tools like Splunk, Arkime and OpenVAS are VMs hosted on ESXI.





ESXI Installation

- > Before beginning You will need:
 - -a Monitor plugged into the MiniRax via VGA
 - -a Ventoy multibootable USB with Gparted installed on it, plugged into the MiniRax
 - -a keyboard plugged into the MiniRax
 - -a mouse not plugged into the MiniRax (for now)
- ➤ Turn on the MiniRax



- Press F11 to invoke the boot menu
- ➤ Enter the BIOS password
- ➤ If the option to boot from USB is unavailable:
- > Change the boot order in 'UEFI Setup' to boot from the USB first
- Save Changes and Reset

-MiniRax will reboot

The next step is to wipe the drives using the Gparted tool on the USB:

- > Press F11 as the CyberPac reboots and invoke the boot menu
- Press F2 to enter BIOS password
- Enter the BIOS Password





> Boot from the USB click USB option on screen using down arrow



In the Ventoy GUI use the down arrow to select "gparted-live*" -select this one with the ENTER key







> Select Normal-Mode

Boot in normal mode
Boot in grub2 mode
Boot in memdisk mode
File checksum
Return to previous menu

Select Gparted Live (Default settings)

GParted Live (Default settings) GParted Live (Default settings & To RAM) GParted Live (VGA with large font & To RAM) Other modes of GParted Live Local operating system (if available) Memtester (Default settings & To RAM) Memtest using Memtest86+ UEFI firmware setup GParted Live 1.5.0-1-amd64 info

> Select Don't touch keymap (this leaves the layout of the keyboard default)

The keymap reco - 'Select key specific fo - 'Don't touc which is ma - 'Keep kerne	map from arch list': r your architecture (h keymap': don't over intained manually wit l keymap': prevent an	mbols on the keyboard. select one of the predefined keymaps recommended for non-USB keyboards); write the keymap in /etc/console, h install-keymap(8); y keymap from being loaded next time
the system - 'Select key Recommended Policy for han	boots; map from full list': when using cross-arc dling keymaps:	list all the predefined keymaps. hitecture (often USB) keyboards.
	Select keymap Don't touch ke Keep kernel ke Select keymap	from arch list ymap ymap from full list
	<0k>	<cancel></cancel>





Type 33 in the lower pane (this selects the english language for the keymap) -press enter



- ➢ Select mode, type 0 and press enter
- > Unplug the keyboard and plug the mouse in where keyboard was plugged in
- ➤ Gparted will automatically open
- Select top right drop down menu

GParted Edit	View Device	Partition Help	ewsua - GParted			
L [®] 😣					📕 /dev/sda 🕽	(3.49 тів)
			unallocated		/dev/sdb	(3.49 TiB)
			3.49 TiB		/dev/sdc	(3.49 TiB)
Partition	File System	Size	Used	Unuser	🥘 /dev/sdd	(3.49 TiB)
unallocated	unallocated	3.49 TiB			/dev/sde	(57.30 GiB

-Note if the drive only has unallocated like the image above move on to the next drive



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-Note what drive you are booting from (reference the storage size of yc_{a} flash media and the drives available)

0 E	State Internet	and the low to be the	/dev/sde - GParted			
GParted Edit	View Device	Partition H	Ielp			
. ⊗		6 5	1		>/dev/sc	le (57.30 GiB)
			/dev/sde1 57.27 GiB			
Partition	File System	Label	Size	Used	Unused	Flags
/dev/sde1 🛕 /dev/sde2	exfat iso9660	Ventoy GParted-live	57.27 GiB 32.00 MiB		-	boot esp

-Note DO NOT DELETE IT

-Note the media you are booting from will likely be the last partition

For each of the partitions click the name of the partition and click on the X with the red circle around it

-Do it for each of the drives/partitions

0 E			/dev/sdb - GParted	AND REAL PROPERTY.		
GParted Edit N	view Device	Partition Help				
		Å 5 4	2		/dev/sd	b (3.49 TiB) 🔻
			/dev, 3.37	/sdb8 TiB		
Partition	Name	File System	Size	Used	Unused	Flags
/dev/sdb1	BOOT	fat16	100.00 MiB	902.00 KiB	99.12 MiB	boot, esp
unallocated		unallocated	1.97 MiB			
/dev/sdb5	BOOTBANK1	fat16	4.00 GiB	204.88 MiB	3.80 GiB	msftdata
unallocated		unallocated	1.00 MiB			
/dev/sdb6	BOOTBANK2	fat16	4.00 GiB	384.00 KiB	4.00 GiB	msftdata
unallocated		unallocated	1.00 MiB			
/dev/sdb7 🛕	OSDATA	unknown	119.90 GiB			
unallocated		unallocated	1.00 MiB			
/dev/sdb8 🛕	datastorel	unknown	3.37 TiB			
0 operations pe	ending					
o operacions pe	nung					

> When done there should only be unallocated space in the middle pane

 \succ Click the green check mark





➤ Click apply

0			/d	ev/sda - GParted	Participant Description	
GParted Edit	View	Device Part	ition Help		o illigenciati	
P 😣	21		↔ √			/dev/sda (3.49 TiB) 🔻
				unallocated 3.49 TiB		
Partition	File S	0	Appl	y operations to device		Flags
unallocated	unal	Are yo operat Editing You are	u sure you ions? partitions has advised to bac Cancel	the potential to cause LOSS of DA ckup your data before proceeding. Apply	TA.	

- \succ Click close on the popup
- > Click the dark gray box in the top right to close the Gparted application
- > Click the Exit button in the top left to exit Gparted
- Double click ONCE (This will take time) *if nothing happens after about 30 seconds, try again.







> When the pop up appears select reboot and select ok

	Select item from the list	
Exit		
Pick	Action	
0	Reboot	
0	Shutdown	
0	Logout	

- > While rebooting swap the keyboard and mouse
- > REMOVE media (USB drive) and then press enter



The next step is to install ESXI on the freshly wiped drives:

- > Plug media (USB drive) back in
- Press F11 and invoke the boot menu
- Enter BIOS Password
- ➤ Boot from USB

 Please select boot device:	
JEFI: USB Enter Setup	
↑ and ↓ to move selection ENTER to select boot device ESC to boot using defaults	

In Ventoy GUI down arrow to the "VMware-VMvisor-Installer*" -select this one with the ENTER key





➤ Normal Mode

Boot in normal mode
Boot in grub2 mode
Boot in memdisk mode
File checksum
Return to previous menu

- > ESXI Loader might take a couple minutes to load
- > Press ENTER once prompted after loading continues



- Press F11 to accept and continue
- Select the first option for storage location

* Contain: # Claimed	s a VMFS pa by VMware	vSAN			
Storage D	evice				Capacity
Local:					
ATA	SAMSUNG	MZ7LHOTO	C110 ATA	STASUME WZZ T	3 49 1:0
ATA	SAMSUNG	MZ7LH3T8	(t10.ATA	SAMSUNG MZZLH	3 49 T B
ATA	SAMSUNG	MZ7LH3T8	(t10.ATA	SAMSUNG MZ7LH)	3.49 TIB
ATA	SAMSUNG	MZ7LH3T8	(t10.ATA	SAMSUNG MZ7LH)	3.49 TiB
USB	SanDisk	3.2Gen1	(mpx.vmhba32	:CO:TO:LO)	57.30 GiB
Remote:					





> Select US Default for keyboard layout

Swiss Fre Swiss Ger Turkish	ench Man			
US Dvorak Ukrainiar United Ki	< ingdom			
L	Jse the arro	4 keys to s	croll.	
(Esc) Car	ncel (F9)	Back (F	inter) Conti	

Create Root Password and use down arrow to confirm password and then press ENTER

	Enter a root password	
Root Confirm	password: <u>*****************</u> password: _	
	Passwords do not match.	
L	(Esc) Cancel (F9) Back (Enter) Continue	

➢ Press F11 for install



- ➤ When Finished
- ➢ REMOVE THE FLASH MEDIA





➤ Press ENTER to Reboot

Installation Complete
ESXi 7.0.3 has been installed successfully.
ESXi 7.0.3 will operate in evaluation mode for 60 days. To use ESXi 7.0.3 after the evaluation period, you must register for a VMware product license.
To administer your server, navigate to the server's hostname or IP address from your web browser or use the Direct Control User Interface.
Remove the installation media before rebooting. Reboot the server to start using ESXi 7.0.3. (Enter) Reboot

- > Press F11 once rebooted
- ➤ Enter the BIOS Password
- Boot from VMWARE ESXI

Please select boot device:

VMware ESXi (SAMSUNG MZ7LH3T8HMLT-00005) UEFI OS (SAMSUNG MZ7LH3T8HMLT-00005) Enter Setup

> ↑ and ↓ to move selection ENTER to select boot device ESC to boot using defaults





ESXI CONFIGURATION

To manage this host, go to https://10.1.5.11/ (STATIC)	
(F2) Customize System/View Logs	

- > Hit F2 to go to the configure management network
- ➤ Use down arrow to enter password
- > Use down arrow to scroll down to configure management network



➤ Press ENTER

➤ IPv4 Configuration

Network Adapters
vmnic1 (Intel LAN X722 #2) vmnic0 (Intel LAN X722 #1)
The adapters listed here provide connection to and from this host. are used, connections will be fau traffic will be load-balanced.





- ➤ Press ENTER
- ➢ Set Static IPv4 with SPACE
- Set up IPv4 address (10.1.5.11), subnet mask (255.255.255.0), and default gateway (10.1.5.1)
- Press ENTER to confirm



- Scroll down to IPv6 configuration
- ➤ Press ENTER
- ➤ Disable IPv6 by pressing SPACE
- Press enter to confirm

IPv6 Configuration			
This host can obtain supports Stateless Ac DHCPv6 server. If it	network settings automatical: dress Autoconfiguration (SLA/ does not, static settings mu:	ly if your network AC) or includes a st be specified:	
(o) Disable IPv6 (res () Use dynamic IPv6 [] Use DHCPv6 () Set static IPv6 a	tart required) address and network configura	ation	
Static address #1 Static address #2 Static address #3 Default gateway		c ron	1 1 1
(Up/Down) Select (Spa	ce> Mark Selected	< Enter≻OK (Esc≻ Ca	ancel

- Scroll down to DNS configuration and press ENTER to select
- Use down arrow to select "use the following DNS server address and hostname and press SPACE to select
- Set Primary DNS to 10.1.10.14 and Alternate 10.1.10.15





Press ENTER to confirm

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Press ESC then press Y to save changes and reboot



ESXI Networking Configuration Set-Up

By: Cpl Uptmor, Connor

This section will serve as the guide to configuring the networking on ESXi.

VSwitching

- To create a virtual switch in ESXi you will click on the networking tab and then Virtual Switches.
- Once you are on this page you will click Add Standard Virtual Switch to create a vswitch.
- When you are creating the vswitch you will only need to name it and click accept for everything in the security tab, that is it.





- You will have to create three total vswitches for a deployment of the kit.
 - One for domain services (for all of your tools and domain controllers to talk to each other, and for your analyst laptops to talk to the tools).
 - ➤ One for the span port (sniffing).
 - > One for the external interface of the firewall.

" Navigator		Q CP1 - Network	king							
▼ 🗐 Host		Port groups	Virtual switches	Physical NICs	VMkernel NICs	TCP/IP stacks Firewall rule	s			
Manage										
Monitor		h Add standa	ard virtual switch 🛛 🔜 A	Add uplink 🥒 Edi	t settings C Refresh	Actions			Q Search	
) 🔂 Virtual Machines	21	Name		~	Port groups	~	Uplinks	∨ Туре		
E Storage	1	Switch0			3		2	Standard vSwitch		
Metworking	4	🛄 Domain Se	ervices		1		2	Standard vSwitch		
🔻 🧕 Management	Network	Sniffing			1		1	Standard vSwitch		
Monitor		Firewall Ex	kternal		1		1	Standard vSwitch		
🕨 🛤 vmk0										4 items
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	Uplin	ic 1			vmrsc.14 - De	own	~		0	
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	* Sona	nty								
	Pr	omiscuous	mode		Accept O	Reject				
	M	AC address	changes		Accept O	Reject				
	Fo	rged transm	mits		Accept O	Reject				

Port Groups

- You need to create port groups in order enable a VM to communicate to a vswitch. When you create a port group you will assign it to a vswitch.
- Port groups are what you assign to Virtual Machines so they can communicate. I would recommend naming your port groups and vswitches the same thing so there's no confusion.
 - Example:
 Portgroup: Domain services
 Vswitch: Domain Services
- The domain services port group and vswitch, the firewall external port group and vswitch can have a vlan id of 0 which is the vlan of the user ports.
- The management (already configured) port group and vswitch and the sniffing port group and vswitch NEED to have a vlan id of 4095 because the sniffing interface needs to





allow all vlans to capture all of the traffic. Also set the port group to promiscuo... mode to allow all types of network traffic.

earch
VMs
7
0
1
0
N/A

- To make a port group you will click on the port groups tab in networking and click add port group.
- From here you will select which vswitch you would like to put it on and also what vlan ID. In the security tab leave everything as *Inherit from vswitch*.

Name	NAME HERE
VLAN ID	0
Virtual switch	Domain Services v
Security	
Promiscuous mode	O Accept O Reject Inherit from vSwitch
MAC address changes	O Accept O Reject O Inherit from vSwitch
Forged transmits	O Accept O Reject Inherit from vSwitch

****NOTE**:** When working with a CyberPak, having unnecessary physical connections (vmnics) connecting to the Management vSwitch will confuse the Pak. In the event of unexplained connection loss, disconnect all cables and reconnect only the bare necessities.

■ Contain Services Type: Services Type: Services Poing rouge: 1 ■ This virtual switch has no uplink redundancy. You should add another uplink adapter: Actions • visitch Details • visitch Details • Witch Details • visitch Details • Visitch Use virtual switch has no uplink redundancy. You should add another uplink adapter: • visitch Details • visitch Details • visitch Cisco discovery protocol (CDP) Adapted VMs 4 (a chole) • visitch Cisco discovery protocol (CDP) Adapted VMs 4 (a chole) • visitch Cisco discovery protocol (CDP) Adapted VMs 4 (a chole) • visitch Cisco discovery protocol (CDP) Adapted VMs 4 (a chole) • visitch Cisco discovery protocol (CDP) • NC teaming policy • visit Mode based on originating port ID • visit Mode based on originating port ID • Not switches Visit • visit • visit Mode based on originating port ID • Not switches Visit • visit • visit • Adapted V Roude based on originating port ID • visit • visit • Adapted V Roude adapted V/s • chole • visit	r		
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Notify switches Yes





Cniffing		
Type:	Standard vSwitch	
Port groups:	1	
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		MAC Address 00:0c:20:e9:bb:1a
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Configuring IPMI

- Power On MiniRax
 - ➢ Press F11 to enter boot Menu
 - Select Enter Setup
 - Navigate to the IPMI tab
 - BMC Network Configuration
 - Update IPMI LAN Configuration set to 'Yes'
 - ➤ Station IP Address set to '10.1.5.12'
 - Subnet Mask set to '255.255.0.0'
 - ➤ Gateway IP Address set to '10.1.5.1'
 - Press F4 to Save and quit

