Migrating a SANS Virtual Machine VMware to Proxmox

A <u>hasty</u> walkthrough of the steps to migrate a VMware virtual machine to my Proxmox virtual environment. Specifically, I'm using the SEC540.22.2 VM on the 15th of February 2024. My hope is that the methodology remains firm for a while and can also be applied to VMs for other courses. Your mileage may vary – I'm incapable of providing additional support or warranty of this work.

Dustin Decker

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Create: Virtual I General OS Node: VM ID: Name:	Machine System Disks CPU Memory indigo 900 SEC540.22.2	y Network Resource P	Confirm Dol:	In the Proxmox administrative console click, Create VM. I'm naming mine
Start at boot: Tags No Tags 🛨		Start/Shutdo order: Startup dela Shutdown ti	wn any y: default neout: default	convenience, and have assigned VM ID 900. We'll need this ID when we import the OVF file.
Create: Virtual M	lachine			On the OS tab
General OS	System Disks CPU Memory		firm	select "Do not use any media" and
Use CD/DVD	disc image file (iso)	Guest OS:	Linux	leave the reaming
ISO image.		Version:	6.x - 2.6 Kernel	settings at default
O Use physical	CD/DVD Drive			
Do not use an	ıy media			
Create: Virtual General OS	Machine System Disks CPU Memor	ry Network	Confirm	Accept the defaults on the System tab
Graphic card:	Default	SCSI Cont	oller: VirtIO SCSI single	and click Next.
Machine:	Default (i440fx)	Qemu Age	nt. 🗆	
Firmware				
BIOS:	Default (SeaBIOS)	Add TPM:		

Create: Virtual Machine		Here on the Disks
General OS System	n Disks CPU Memory Network Confirm	tab again accept the defaults and click Next.
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Create: Virtual Machine General OS Sockets: 2 Cores: 2	Disks CPU Memory Network Confirm Disks CPU Memory Network Confirm Image: State	I'm assigning Two Sockets and Two Cores for the VM and leaving remainder at default.
CPU limit: unlimited CPU Affinity: All Cores Extra CPU Flags:	Enable NUMA:	In some rare occasions I've seen the need to change "Type" to either quemu64 or host, but not with this VM.
Create: Virtual Machine General OS System Memory (MiB):	Disks CPU Memory Network Confirm	I'm assigning 16 GB of RAM for the VM. Click Next.
Minimum memory (MiB): Shares: Ballooning Device:	16384 ≎ Default (1000) ≎	

Create: Virtual M General OS	achine System Disks CPU Memory <mark>Network</mark> Confirm	Accept the defaults for Network by clicking Next.
Bridge:	vmbr0 VirtlO (paravirtualized)	
VI AN Tag	no VI AN MAC address: auto	
Disconnect:	Rate limit (MB/s): unlimited	
MTU:	1500 (1 = bridge MTU)	
Create: Virtual Mach General OS S Cores cpu ide2 memory name net0 nodename numa ostype scsi0 scsihw sockets vmid	hine Disks CPU Memory Network Confirm value 2 x86-64-v2-AES none,media=cdrom 16384 SEC540.22.2 virtio,bridge=vmbr0,firewall=1 indigo 0 126 local:32,format=qcow2,iothread=on virtio-scsi-single 2 900	Review to confirm settings and then click Finish.
Start after created		
Virtual Machine 900	Advanced 🗹 Back Finish	
		In the Proxmox
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Options	Display Default	Highlight the 22CP
Task History	SCSI Controller VirtIO SCSI single	hard drive we
Monitor		created earlier and
🖹 Backup	Hard Disk (scsi0) local:900/vm-900-disk-0.gcow2.iothread=1.size=32G	click the "Detach"
Replication	A Network Device (net0) virtio=BC:24:11:5D:74:AE,bridge=vmbr0,firewall=1	hutton
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Permissions		

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The storage location of the imported disk. The format of the disk. qm importdisk 900 SEC540.22.2-disk1.vmdk local-lvm -format qcow2	S40.22.2.ovf 2-disk1.vmdk local-lvm -format qcow2With the files now transferred to the Proxmox server, ssh into the server.disk.D, 900,bk.Execute the import command to bring your hard disk into the storage location for your environment. I'm	<pre>root@indigo:~# ls SEC540.22.2-disk1.vmdk SEC540.22.2.mf SEC540.22.2.ovf root@indigo:~# qm importdisk 900 SEC540.22.2-disk1.vmdk local-lvm -format qcow2 importing disk 'SEC540.22.2-disk1.vmdk' to VM 900 Logical volume "vm-900-disk-0" created. transferred 0.0 B of 128.0 GiB (0.00%) transferred 1.3 GiB of 128.0 GiB (2.00%) transferred 3.8 GiB of 128.0 GiB (2.00%) transferred 3.8 GiB of 128.0 GiB (3.00%) transferred 5.1 GiB of 128.0 GiB (4.00%) The qm command is used to import the disk. Here specify the VM created earlier by ID, 900, The filename for the disk to import. The storage location of the imported disk. The format of the disk. qm importdisk 900 SEC540.22.2-disk1.vmdk local-lvm -format qcow2</pre>				

Virtual Machine 900 (SECS) Image: Summary Image: Console Image: Hardware Image:	id0.22.2) on node 'indigo' I dd V Remove Edit Memory Processors BIOS Display Machine SCSI Controller CD/DVD Drive (ide2) Network Device (net0) Unused Disk 0	No Tags Disk Action 16.00 GiB 4 (2 sockets, 2 core Default (SeaBIOS) Default Default (i440fx) VirtIO SCSI single none,media=cdrom virtio=BC:24:11:5D: local-lvm:vm-900-di	ert rs) [x86-64-v2-AES] 74:AE,bridge=vmbr0,firewall=1 isk-0	Returning to the settings of the new VM in the Proxmox console, there is now an "Unused Disk 0" listed. This is recently imported disk.
Add: Unused Disk Disk Bandwidth Bus/Device: SCS SCSI Controller: VirtIO Disk image: local SSD emulation: Read-only: Help	sil 0 0 9 SCSI single I-lvm:vm-900-disk-0	Cache: Discard: IO thread: Backup: Skip replication: Async IO:	Default (No cache) Image: Second state of the second s	Select the disk and click the Edit button. Details for the disk will be listed. I place a check in the box for SSD emulation. Click the Add button.
 Virtual Machine 900 (\$ Summary Console Hardware Cloud-Init Options Task History Monitor Backup Replication Snapshots 	SEC540.22.2) on node 'in Edit Revert Name Start at boot Start/Shutdown order OS Type Boot Order Use tablet for pointer Hotplug ACPI support KVM hardware virtualiz Freeze CPU at startup	ndigo' No Tags	SEC540.22.2 No order=any Linux 6.x - 2.6 Kernel ide2, net0 Yes Disk, Network, USB Yes Yes No	Return to the Options tab and select Boot Order. Click the Edit button.

Edit: Boot	Order		(\otimes	Click the check
#	Enabled	Device	Description		boxes to disable
≡ 1		🖨 scsi0	local-lvm:vm-900-disk-0,iothread=1,size=128G,ssd=1		ide2 and net0, then
		ide2	none,media=cdrom		enable the scsi0
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					OK.
Drag and d	op to reorder				
O Help			OK Reset		
	Gue: උ	st not run Start No	ning ww		Select the >_Console tab for the VM and click Start Now.

In a few short moments the VM is read! Enjoy!

Summary		Thu 18:43	🔂 ▾ eni ▾ 🛔 40) Ů ▾
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