# Migration Steps for Axcient Appliance: physical to virtual and virtual to physical

#### Log into vSphere and navigate to your hosts

vmware <sup>®</sup> vSphere V	Web Cl	ient 🕇 🖉
Home	T I	Center Home
vCenter		Getting Started
P vCenter Home		What is vCenter?
✓ Inventory Trees		The vCenter inventory is where you find all the objects associated with vCenter Server
Hosts and Clusters	>	systems, such as datacenters, hosts, clusters,
VMs and Templates	>	networking, storage, and virtual machines.
Storage	>	The Inventory Lists allow you to view an aggregated list of these objects across
Q Networking	>	vCenter Server systems. These flat lists enable easier batch operations.
✓ Inventory Lists		The inventory tree is still available under
vCenter Servers	1>	Inventory Trees. Here objects are listed
Datacenters	1>	Clusters, VMs and Templates, Storage, and
Hosts	3 >	Networking.
Clusters	•	There are three steps to get started with your virtual infrastructure:
Resource Pools	•	1. Create a datacenter
Datastores	8 >	2. Add hosts to the datacenter 3. Create virtual machines on the hosts
Datastore Clusters	• • •	
Standard Networks	7 >	Explore Further
Distributed Switches	•	What is vCenter Server?
		Networking in vSphere
		Storage in vSphere
		Using the object navigator
		Calling the object havigator

The following instructions cover the process of connecting an Axcient virtual appliance to an Axcient physical appliance. These connection steps cover both physical to virtual and virtual to physical migrations. The difference between these migration is based on which appliance is the source and which is the destination during the migration process. The migration process is done by Axcient support (the last step of these instructions).

#### Go to your host's networking panel

VCenter       Image       Related Objects         Image       Getting Started Summary Montor       Manage       Related Objects         Image       Getting Started Summary Montor       Manage       Related Objects         Image       Settings       Networking       Storage       Alement Definitions         Image       Settings       Networking       Storage       Alement Definitions       Tage         Image       Settings       Networking       Image       Image       Networking       Image         Image       Settings       Networking       Image       Image       Networking       Image         Image:       Settings       Networking       Image       Image       Networking       Image       Image       Image         Image:       Settings       Settings       Image       Image       Image       Image       Image       Image       Image       Image       Image					
Vector       Image: Section Stander St	vmware <sup>®</sup> vSphere Web Cli	ient 🔒 🖉			
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Virtual switches         Virtual adapters         Physical adapters         DNS and routing         Advanced         If Vswitch0         If Vswitch1         -         If Vswitch2         If Vswitch0         If Vswitch1         -         If Vswitch2	192.168.66.244	"	Virtual switches		
Virtual adapters         Physical adapters         DNS and routing         Advanced         VSwitch1         VSwitch2         -         128         VSwitch2         -         Standard switch: vSwitch0 (VM Network)         V         VNN	þ 🚡 192.168.99.239 👌	Virtual switches			
Physical adapters DNS and routing Advanced     Switch0     -     128       Image: Standard switch: vSwitch0 (VM Network)     -     128       Standard switch: vSwitch0 (VM Network)     -     128		Virtual adapters	- 👱 🕅 🖻 🖊 🗙 🛈		
DNS and routing     If vSwitch0     -     128       Advanced     If vSwitch1     -     128       Standard switch: vSwitch0 (VM Network)     If vSwitch2     -       VLAN ID: -     vSwitch2     -       VLAN ID: -     vSwitch2     -       W Network     If vSwitch2     -       VLAN ID: -     vSwitch2     -       Standard switch: vSwitch0 (VM Network)     If vSwitch2     -		Physical adapters	Switch	Discovered Issues	Number of Ports
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Standard switch: vSwitch0 (VM Network)		Advanced	T vSwitch2	-	128
Standard switch: vSwitch0 (VM Network)					
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			1 *		
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VLAN ID:				S VM Network	Physical Adapters
Virtual Machines (12)         rpham W12 with Dedup         mohan_2x8_65_xxx         Sriw2k81         C         cb-linux-build-clone         C         VC5_archive         SriW2k8_77158         WindowsVM         Duildym11         Sri Windows 8 64-bit				VLAN ID:	C C C C C C C C C C C C C C C C C C C
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Sriw2k81       0         cb-linux-build-clone       0         VC5_archive       0         SriNb2Win7       0         SriW2k8_77158       0         WindowsVM       0         buildym11       0         Sr_Win2K21212       0				mohan 2k8 66 xxx	
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VC5_archive       0       0         SnDbgWin7       0       0         SrW2k8_77158       0       0         WindowsVM       0       0         buildym11       0       0         Srl_Win2X3_212       0       0				cb-linux-build-clone	
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SriW2k8_77158 <b>3</b> - WindowsVM <b>3</b> - buildym11 <b>3</b> - SriWindows 28 54 bit <b>9</b> - SriWindows 8 54 bit <b>9</b> -				SriDbgWin7	
WindowsVM        •				SriW2k8_77158	
				WindowsVM	
				Sri Win2K3 212	
				Sri Windows 8 64-bit	
Srizka CLOME				Sri2k8 CLOME	
99 Network 0				99 Network	

Highlight the host in the left panel, and then choose "Manage" and "Networking".

#### Find an available physical NIC

vmware vSphere Web Cli	ient 🔒 🕼							
vCenter 💌 🎩	<b>192.168.99.239</b> Actions -							
	Getting Started Summary Mo	nitor Manage	Related Objects					
<ul> <li>✓ C5</li> <li>✓ Axcient Users</li> <li>▶ 192.168.61.177</li> <li>▶ 192.168.66.244</li> <li>▶ 192.168.99.239</li> </ul>	Settings Networking Storage	Alarm Definitions	Tags Permiss	ions				
	Virtual adapters	Device	Actual Speed	Configured Speed	Switch	MAC Address	Observed IP ranges	Wake on LAN Supported
	Physical adapters	Intel Corporati	ion I350 Gigabit	Network Connection	1			
	DNS and routing	vmnic0	Down	Auto negotiate	vSwitch4	b4:b5:2f:65:b4:60	No networks	Yes
	Advanced	ymnic1	1000 Mb	Auto negotiate	vSwitch2	b4:b5:2f:65:b4:61	1.1.1.1-1.1.1.1	No
		💓 vmnic2	1000 Mb	Auto negotiate	vSwitch1	b4:b5:2f:65:b4:62	192.168.66.112-192.16	No
		vmnic3	1000 Mb	Auto negotiate	vSwitch0	b4:b5:2f:65:b4:63	192.168.99.154-192.16	No

Choose the "Physical adapters" menu and find an available physical NIC on the host. For this example vmnic0 is available. Then use the blue globe icon to add a network host (1).

#### Select connection type



Choose the "Virtual Machine Port Group for a Standard Switch" option. Then select the "Next" button.

#### Select target device

Settings Networking Storage	Alarm Definitions Tags Permissions Physical adapters					
Virtual switches Virtual adapters Physical adapters DNS and routing	Image: Config           Device         Actual Speed         Config           Intel Corporation 1350 Gigabit Network	igured Speed Switch	MAC Address	Observed IP ranges	Wake on LAN Supported	
Advanced	<ul> <li>192.168.99.239 - Add Networkin</li> <li>1 Select connection type</li> <li>2 Select target device</li> <li>3 Connection settings</li> </ul>	Select target device Select a target device for the Select an existing standard	new connection.			•
	4 Ready to complete	VSwitch4	•	Browse		
					Back Next	Finish Cancel

Select an existing standard switch (1) as shown in this example, or create a new switch (2). Then select the "Next" button.

#### **Edit Connection Settings**

Settings Networking Storage	Alarm Definitions Tags Permissions				
•• Virtual switches	Physical adapters				
Virtual adapters Physical adapters DNS and routing	Device Actual Speed Configu Intel Corporation 1350 Gigabit Network	red Speed Switch	MAC Address	Observed IP ranges	Wake on LAN Supported
Advanced	192.168.99.239 - Add Networking				(?)
	<ul> <li>1 Select connection type</li> <li>2 Select target device</li> </ul>	Connection settings Use network labels to identify	migration-compatible con	nections common to tw	o or more hosts.
	3 Connection settings 4 Ready to complete	Network label:	VM Network for A	Axcient Virtual Appliance	e migration
		VLAN ID (Optional):	None (0)	•	
					Back Next Finish Cancel

Change the network label name to something meaningful. Then select the "Next" button.

#### **Review settings**



Review networking settings and select the "Finish" button.

#### Virtual switch connected to physical nic

	Getting Started Summary Mo	nitor Manage Related Objects		
<ul> <li>✓ (2) VC5</li> <li>✓ (1) Axcient Users</li> <li>▶ (7) 192.168.1.177</li> </ul>	Settings Networking Storage	Alarm Definitions Tags Permissions		
192.168.66.244	44	Virtual switches		
þ 🚡 192.168.99.239 🖒	Virtual switches	일 🞼 🕾 🥖 🗙 🚯		
	Virtual adapters	Switch	Discovered Issues	Number of Ports
	Physical adapters	T vSwitch2	-	128
	DNS and routing	T vSwitch3	-	128
	Advanced	T vSwitch4	-	128
		Standard switch: vSwitch4 (VM Network for	Axcient Virtual Appliance migration)	
		/ ×		
			VM Network for Axcient VLAN ID: Virtual Machines (0)	(i)

If you go to the "Virtual switches" menu you will see the connection between the virtual switch (in this case vSwitch4) and the physical NIC (vmnic0 for this example). The next steps cover connecting the Axcient Virtual Appliance to this virtual switch.

#### **Select the Axcient Virtual Appliance**

vCenter 💌 📕	Virtual Machines							
	🕨 🗉 🕤 📇 🕻	🗴 🛛 🍪 Actions 🗸						
	Name	1 A State	Status	Manag	jed By	Host		
	🚯 rpham 2K8 R2 64 Sm	oke NFS Powered On	O Norma	al		192.168.99.239		
192.168.1.177	pham Vapp 256GB 6	6.205 Powered Off	Norm	al		192.168.99.239		
192.168.66.244	rpham vApp Custome	rs 66.2 Powered On	Norma	al		192.168.99.239		
	rpham Vapp Migration	99.253 Powered Off	📀 Norm	al		192.168.99.239		
	👘 rpham W12	ns - rpham Vapp Migration 99.253	📀 Norm	al		192.168.99.239		
	🖶 Sri 2K3 SBS 🎴 Pow	ver On	Norma	al		192.168.99.239		
	SRi 2K3_R2	t Down Guest OS	Norma	al		192.168.99.239		
	Sri 2K8_R2	rate	Norma	al		192.168.99.239		
	🖶 Sri Windows 松 Tak	Snapshot	Norma	al		192.168.99.239		
	Sri2K3	ert to Current Snapshot	Norma	al		192.168.99.239		
	🖶 Sri2k8 CLON 🕼 Mar	age Snapshots	Norma	al		192.168.99.239		
	🖶 Sri2k8Dbg 🚰 Clor	ne 🕒	Norma	al		192.168.99.239		
	🖶 Sri_D_to_C 🦻 Edit	Settings	Norma	al		192.168.99.239		
	Sri_D_to_C_ Mov	re To	Norma	al		192.168.99.239		
	🔂 Sri_Win2K3_ Ren	ame	Norma	al		192.168.99.239		
	🖶 SriDbgWin7 🌾 Ass	ign tag	📀 Norm	al		192.168.99.239		
	🔂 Sriw2k81 Alar	ms 🔸	Norma	al		192.168.99.239		
	Ally	Center Actions			::			
	M							
	Preview: rpham Vapp Migration 99.253							
				M Starage Drafil		_		
				VM Storage Prom	62			
				w Storage Profiles	-			
	Memory	4096 MB, 0 MB used	P	rofile Compliance	-			
	Hard disk 1	12.21 GB	L	ast Checked Date	-			
	Hard disk 2	256 GB				Refresh		
	Network adapter 1	99 Network (disconnected)		<b>-</b>				
	Video card	4 MB	•	lags				
	USB Devices	Power VM on to connect	Assig	ned lag Ca	is list is empty.	Description		
	▶ Other	Additional Hardware						
	Compatibility	ESXi 5.1 and later (VM version 9)						
		Edit Setting	JS					

From your VM host select the Axcient Virtual Appliance and then right click and choose "Edit Settings...".



#### vApp setting panel

Virtual Hardware VM O	ptions SDRS Rules vApp Options	
	2 0	
Memory	4096 <b>v</b> MB <b>v</b>	
Hard disk 1	12.207032203674316 × GB ×	
Hard disk 2	256.000009536743 🔺 GB 👻	
SCSI controller 0	LSI Logic Parallel	
Metwork adapter 1	99 Network 🗸 🗸 Gonnect	
Video card	Specify custom settings	
🔅 VMCI device		
USB xHCI controller	USB 3.0	
Other Devices		

In the Axcient Virtual Appliance's setting menu select the "New device" drop-down.

#### **Select Network Device**

rpham Vapp Migration	99.253 - Edit Settings	? •
Virtual Hardware VM Op	otions SDRS Rules vApp Options	
▶ 🔲 CPU	2 🔹	
Memory	4096 <b>v</b> MB <b>v</b>	
F Hard disk 1	12.207032203674316 GB V	
Hard disk 2	GB Vew Hard Disk	
▹  SCSI controller 0	Existing Hard Disk	
Network adapter 1	RDM Disk	
Video card	Network	
نې VMCI device		
USB xHCl controller	CD/DVD Drive	
<ul> <li>Other Devices</li> </ul>	Floppy Drive	
	Serial Port	
	Parallel Port	
	Host USB Device	
	USB Controller	
	SCSI Device	
	PCI Device	
	SCSI Controller	
New device:	Select 🔻 Add	
Compatibility: ESXi 5.1 and	later (VM version 9) OK Ca	ncel

From the drop-down select the "Network" device.

#### Add the Network Device

p rpham Vapp Migration	99.253 - Edit Settings	?)
Virtual Hardware VM Op	tions SDRS Rules vApp Options	
F 🔲 CPU	2 🔹 🔹	
Memory	4096 <b>•</b> MB •	
Hard disk 1	12.207032203674316 🖕 GB 🖵	
Hard disk 2	256.000009536743 🖕 GB 🖵	
SCSI controller 0	LSI Logic Parallel	
Metwork adapter 1	99 Network 🚽 🗹 Connect	
Video card	Specify custom settings	
Stress VMCI device		
USB xHCI controller	USB 3.0	
Other Devices 2		
New Network	66 Network	
	1	
New device:	Retwork - Add	
ompatibility: ESXi 5.1 and	later (VM version 9) OK Ca	ncel

Select the "Add" button (1). At this point you will see the new network device (2) show on the settings panel.

#### Select the Network for the New Device

Virtual Hardware VM Op	tions SDRS Rules vApp Options
Memory	4096 <b>v</b> MB <b>v</b>
Hard disk 1	12.207032203674316 GB V
Hard disk 2	256.000009536743 🖕 GB 🖵
SCSI controller 0	LSI Logic Parallel
Network adapter 1	99 Network 🗸 🗸 Gonnect
Video card	Specify custom settings
MCI device	
USB xHCI controller	USB 3.0
Other Devices	
New Network	66 Network 🛛 🗸 Connect
	66 Network
	77 Network
	99 Network
	VM Network
	VM Network for Axcient Virtual Appliance migration
	Show more networks
New device:	Metwork - Add

Use the drop-down to select the network that you just created. Then select the "OK" button.

# **Α Ҳ C I E N T**<sup>™</sup>

#### The vApp should have the new NIC card



You should now see the new network adapter for the VM Hardware details. When the Axcient Virtual Appliance is booted it will now have the new NIC as eth1. You will now need to connect your physical Axcient appliance to the physical port from your host (in this example vmnic0). Please contact <u>Axcient support</u> for assistance with the next migration steps.