

COMMANDS TO DEPLOY AN ESX SERVER							
Configure ESX Server Networking							
Display physical NIC configuration	esxcfg-nics -1						
Set physical NIC's speed and duplex	esxcfg-nics -s speed -d duplex vswitch_name						
Add a virtual switch	esxcfg-vswitch -a vswitch_name:#_ports						
Check to see if a virtual switch already exists	esxcfg-vswitch -c vswitch_name						
Add a portgroup (for either SC, VMkernel or VMs)	esxcfg-vswitch -A portgroup_name vswitch_name						
Check to see if a portgroup already exists	esxcfg-vswitch -C portgroup_name						
Link a physical NIC to a virtual switch	esxcfg-vswitch -L vmnic# vswitch_name						
Unlink a physical NIC from a virtual switch	esxcfg-vswitch -U vmnic# vswitch_name						
Display virtual switch configuration	esxcfg-vswitch -1						
Add a VMkernel port	esxcfg-vmknic -a -i IP_addr -n netmask VMkernel_port_name						
Display VMkernel ports	esxcfg-vmknic -l						
Set the VMkernel port gateway	esxcfg-route gateway_IP_address						
Display the VMkernel default gateway	esxcfg-route						
Add a service console interface (vswif)	esxcfg-vswif -a -i IP_addr -n netmask -p sc_port_name vswif#						
Display service console interfaces	esxcfg-vswif -l						
Configu	ure ESX Server iSCSI Storage						
Display iSCSI software adapter settings	esxcfg-swiscsi -q						
Enable (-e) or disable (-d) the iSCSI software adapter	esxcfg-swiscsi -e -OR- esxcfg-swiscsi -d						
Display the software iSCSI node name	vmkiscsi-tool -I -l vmhba40						
Display the software iSCSI node alias	vmkiscsi-tool -k -l vmhba40						
Discover iSCSI targets	vmkiscsi-tool -D -a target_IP_address vmhba40						
Display discovered iSCSI targets	vmkiscsi-tool -T -l vmhba40						
Rescan for iSCSI LUNs	esxcfg-rescan vmhba40						
Display iSCSI LUNs	vmkiscsi-tool -L -l vmhba40						
	Manage Datastores						
List device file names associated with a server's LUNs	esxcfg-vmhbadevs						
Map VMFS volumes to their LUNs and vmhba name	esxcfg-vmhbadevs -m						
Create one or more partitions on a LUN	fdisk device_file_name						
Display the partition table for the specified LUN	fdisk -1 device_file_name						
Create a VMFS volume	<pre>vmkfstools -C vmfs3 -S VMFS_volume_label partition_address (vmhba#.#.#)</pre>						
Map label names with physical VMFS volumes	ls -l /vmfs/volumes						
Change the VMFS volume label	<pre>ln -sf /vmfs/volumes/UUID /vmfs/volumes/new_label_name</pre>						
Display VMFS volume metadata	vmkfstools -P -h /vmfs/volumes/volume_label						
Extend a VMFS volume	<pre>vmkfstools -Z VMFS_extent name_of_existing_VMFS</pre>						
Remove a VMFS volume extent	Recreate the VMFS volume						
Display VMFS and service console filesystem usage	vdf -h						
Configure Services							
Synchronize the VI Client to reflect command-line changes	service mgmt-vmware restart						



COMMANDS TO SECURE AN ESX SERVER								
Configure Service Console Firewall								
Display the current firewall settings	esxcfg-firewall -q							
Display the firewall setting for a specific service	esxcfg-firewall -q service_name							
Enable all incoming (or outgoing) ports	esxcfg-firewall -allowIncoming (Or -allowOutgoing)							
Block all incoming (or outgoing) ports	esxcfg-firewall -blockIncoming (Or -blockOutgoing)							
Enable (-e) or disable (-d) a service in the firewall	esxcfg-firewall -e service_name -OR- esxcfg-firewall -d service_name							
List all available services	esxcfg-firewall -s							
Open a port (not required for management use) in the firewall	esxcfg-firewall -o port,protocol,direction,name							
Close a port in the firewall	esxcfg-firewall -c port,protocol,direction							
Configure Password Aging								
Configure password aging using pam_cracklib.so	esxcfg-auth -usecrack=retries min_length lc uc d oc $oldsymbol{0}$							
Configure password aging using pam_passwdqc.so	esxcfg-auth -usepamqc=N1 N2 min_passphrase_length N3 N4 match @							

• where lc, uc, d, or oc, if set, will decrement the minimum password length

• where N1, N2, N3 and N4 are # required chars for a password using one-, two-, three- or four- character classes respectively

COMMANDS TO PROTECT YOUR DATA USING VCB								
List ways to identify the VM to backup	vcbVmName <hup> -s ipaddr:VM_IP_address 0</hup>							
Perform a full VM backup	<pre>vcbMounter <hup> -a name:VM_display_name -t fullvm -r directory_to_place_backup</hup></pre>							
Create a VM snapshot	<pre>vcbSnapshot <hup> -c moref:moref_value snapshot_name</hup></pre>							
Get a list of disks in a VM snapshot	vcbSnapshot <hup> -l ssid:snapshot_ID</hup>							
Remove a snapshot	vcbSnapshot <hup> -d vmid_value ssid_value</hup>							
Export a virtual disk	vcbExport -d exported_virtual_disk_name -s virtual_disk_name							
Restore an individual virtual disk	<pre>vmkfstools -i exported_virtual_disk_name restored_virtual_disk_name</pre>							
Restore a complete virtual machine (perform on service console only)	<pre>vcbRestore <hup> -s directory_to_restore_to</hup></pre>							
Mount a virtual disk file (perform on VCB Proxy only)	<pre>mountvm -d backed_up_virtual_disk_filename -cycleId mount_point_name</pre>							
Unmount a virtual disk file (perform on VCB Proxy only)	mountvm -u mount_point							
6 <hup -="" -n="" -u="" =="" esx="" h="" hostname="" nasswd<="" of="" or="" server="" td="" user="" virtualcenter=""></hup>								

€	<hup></hup>	=	-h	hostname_	_of_V	irtual	Center_	_Server_	_or_	_ESX_	Server	-u	user	-p	passwd	
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FAULT ANALYSIS TOOLS							
Restart a service	service service_name restart						
Display the last time the system was rebooted	last reboot						
Check IP connectivity	ping ip_address_or_hostname						
Check IP connectivity using the VMkernel stack	vmkping ip_address						
Gather debugging information (on ESX Server)	vm-support						
Gather debugging information (on VirtualCenter Server)	cscript vc-support.wsf						
Display ESX Server resource utilization	esxtop						
Capture performance snapshots	vm-support -S -i time_between_snapshots -d snapshot_duration						
Replay performance snapshots	esxtop -R vm_support_directory_path						
Start VirtualCenter Server in standalone mode	vpxd -s						
Re-initialize VirtualCenter Server's database	vpxd -b						