

## Clone Guard Security Scanning



# Clone Systems Internal Scanner

# Setup Manual

March 2020



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# WELCOME

The Clone Systems suite of Security Scanning solutions provides a capability of scanning your corporation's internal private network to help identify and remediate vulnerabilities. In order to conduct these internal scans, you must configure an internal scanner on your corporation's virtual environment and register it with your Clone Systems Security Scanning solution.

### **Getting Started**

This setup manual provides you with instructions on how to configure an internal scanner for use with your Clone Systems Security Scanning Solution. The Internal Scanner is available for the following Virtual Environments:

Internal Scanner Supported on the Following Virtual Environments
Oracle VirtualBox
KVM
VMWare ESXi / vSphere / Workstation
Citrix Xenserver
Microsoft Hyper-V
Microsoft AZURE Cloud
Amazon AWS Cloud

#### **Installation Steps**

The following details the steps involved with configuring the internal scanner.

	Installation Steps
1.	Download the Internal Scanner
2.	Configure the Internal Scanner within your Virtual Environment
3.	Initialize the Internal Scanner



# **DOWNLOAD THE INTERNAL SCANNER**

#### Overview

The following will provide an overview of how to access and download the Internal Scanner that is supported by your corporation's virtual environment.

#### Access the Internal Scanner

	Steps for Downloading the Internal Scanner
Step 1	Navigate your browser to the hyperlink below and download the image that matches your environment.
Download the Virtual	
Scanner Image	https://www.clone-systems.com/virtual-scanner-downloads/



# **ORACLE VIRTUALBOX**

#### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scanner on Oracle VirtualBox.

	Steps for Importing	the Inte	nal Scanner into Vi	rtualBox	
Step 1	From the VirtualBox File m	enu seleo	t Import Appliance.		
Begin the Import	Oracle VM VirtualBox Manager				
Wizard	Prie     Machine     Heip       Preferences     Import Appliance       Import Appliance     Export Appliance       Import Appliance     Import Appliance	Ctrl+G Ctrl+I Ctrl+E Ctrl+D			
	<ul> <li>Host Network Manager</li> <li>Network Operations Manager</li> <li>Check for Updates</li> <li>Reset All Warnings</li> </ul>	Ctrl+W			
	V Exit	Ctrl+Q			





Step 2	This will begin the <b>Import Wizard</b> . Select the <b>ova</b> file for the Internal Scanner that you ext from the Tarball and then click <b>Next</b> .
Select the ova file for	
the Internal Scanner	? ×
	Import Virtual Appliance
	Appliance to import
	VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below.
	Expert Mode Next Cancel



Step 3 Setup the import for the Internal Scanner	Depending on your environment you may want to reinitialize the MAC addresses by selecting the checkbox in front of <b>Reinitialize the MAC address of all network cards</b> , but it is not required. Click <b>Import</b> .			
	? ×			
	<ul> <li>Import Virtual Appliance</li> </ul>			
	Appliance settings			
	These are the virtual machines contained in the appliance and the suggested settings of the imported VirtualBox machines. You can change many of the properties shown by double-clicking on the items and disable others using the check boxes below.			
	Virtual System 1			
	Vame CLONWLSCANVB-INT_1			
	Product Clone System Internal Scanner			
	Vendor Clone Systems Inc			
	Vendor-URL https://www.clone-systems.com			
	Version 0.40			
	Description Clone System Internal Scanner (Vi			
	🚍 Guest OS Type 🎽 Ubuntu (64-bit) 🗸			
	Reinitialize the MAC address of all network cards			
	Appliance is not signed			
	Restore Defaults Import Cancel			
Step 4	The import process will begin and may take a few minutes depending on the hardware that			
Import the Internal				
Scanner	Manual Importing Appliance: Importing appliance 'D:\VMS\CLONWLSCANVB-Scanne ×			
	Importing virtual disk image 'CLONWLSCANVB-Scanner-disk001.vmdk' (2/3) 3%			







# KVM

### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scanner on KVM.

### Import and Configure the Internal Scanner with Virt-manager

	Steps for Importin	g the Internal Scanner	into KVM with Virt-r	nanager			
Step 1	From the Virt-manager	File menu select New V	irtual Machine.				
Create New Virtual Machine with Virt-	Market Virtual Machine M File Edit View	Nanager@CLONWLIPSTE Help	ST		-		×
manager	Add Connection New Virtual Ma	n chine	•				
	Close Quit	Ctrl+W Ctrl+Q <b>tem internal Scanne</b>	r (KVM version)	Ŧ	CPU	isage	
	Clone Sys Shutoff	tem internal Scanne	r (KVM version)				





Step 3 Setup the Disk Image	Select the <b>disk image</b> file for the Internal Scanner that you extracted from the Tarball and select <b>Linux</b> for the <b>OS type</b> and <b>Ubuntu 16.04</b> for the <b>Version</b> and then click <b>Forward</b> .	then
and OS Type	New VM@CLONWLIPSTEST ×	
	Create a new virtual machine Step 2 of 4	
	Provide the existing storage path:	
	Browse	
	Choose an operating system type and version OS type: Linux Version: Ubuntu 16.04 Cancel Back Forward	



Set the Memory and CPU values to the configuration recommended by Clone Systems. Set the <b>Memory to 8196</b> and set the <b>CPUs</b> to <b>4</b>
<b>Note</b> : Setting the Memory and CPU to values lower than the recommended settings will impact the scanning performance.
Was New VM@CLONWLIPSTEST ×
Create a new virtual machine Step 3 of 4
Choose Memory and CPU settings
Memory (RAM): 8196 — + MiB
Up to 64351 MiB available on the host
CPUs: 4 – +
Up to 24 available
Cancel Back Forward

Step 5 Configure network settings and start the Internal Scanner	When the import of the Internal Scanner is completed you will see the new Virtual Machine in your VM inventory. Change the Virtual Machine <b>Name</b> according to your naming convention and modify the <b>networking</b> options for your corporate network than click <b>Finish</b>			
	Note: Confirm your network settings for the Internal Scanner before powering	Note: Confirm your network settings for the Internal Scanner before powering it on.		
	New VM@CLONWLIPSTEST ×			
	Create a new virtual machine Step 4 of 4			
	Ready to begin the installation			
	Name: ubuntu16.04			
	OS: Ubuntu 16.04			
	Install: Import existing OS image			
	Memory: 8196 MiB CPUs: 4 Storage: 20.0 GiBINT-KVM/CLONWLSCAN-INT-KVM.xml			
	Customize configuration before install	2		
	→ Network selection			
	Bridge br1: Host device eth2 🔻			
		¢		
	Cancel Back Finish	2		
		1		



# **VMWARE ESXI**

### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scanner on VMware ESXi.

	Steps for Importing the Internal Scanner into VMware ESXi
Step 1 Begin the New Virtual	From the Virtual Machine tab select Create/Register VM.
Machine Wizard	Wavigator       Image       Image
Step 2	On the Select creation type step select Deploy a virtual machine from an OVF or OVA file.
Select Creation Type	I select retaining         I select Vir and VMDK files         3 select Storage         I Leense agreements         Deployment options         3 didtional settings         7 Ready to complete
	Back Next Finish Cancel











Step 6	On the <b>Ready to complete</b> step click <b>Finish</b> .				
Complete configuration	<b>Note:</b> Once the Import has completed confirm your network settings for the Internal Scanner before powering it on.				
	🖄 New virtual machine - Clone-Intern	nal-Scanner			
	<ul> <li>1 Select creation type</li> <li>2 Select OVF and VMDK files</li> <li>3 Select storage</li> </ul>	Ready to complete Review your settings selection b	efore finishing the wizard		
	<ul> <li>✓ 4 Deployment options</li> <li>✓ 5 Ready to complete</li> </ul>	Product	CLONWLSCANX		
	<ul> <li>S Ready to complete</li> </ul>	VM Name	Clone-Internal-Scanner		
		Disks	CLONWLSCANX-vmworkstation-disk1.vmdk		
		Datastore	datastore1		
		Provisioning type	Thin		
		Network mappings	bridged: VM Network		
		Guest OS Name	Unknown		
	<b>vm</b> ware*	Do not refresh y	bur browser while this VM is being deployed.		
	v i laigo	•   Initiativi	Back Next Finish Cancel		
	<ul> <li>3 Select storage</li> <li>4 Deployment options</li> <li>5 Ready to complete</li> </ul>	Product VM Name Disks Datastore Provisioning type Network mappings Guest OS Name Do not refresh ye	Environmentary and witching         CLONWLSCANX         Clone-Internal-Scanner         CLONWLSCANX-vmworkstation-disk1.vmdk         datastore1         Thin         bridged: VM Network         Unknown         bur browser while this VM is being deployed.		



# **VMWARE VSPHERE**

### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scanner on VMware vSphere.

	Steps for Importing the Internal Scanner into VMware vSphere
Step 1 Begin the Deploy OVF	From the vSphere <b>File</b> menu select <b>Deploy OVF template</b> .
template Wizard	File       Edit       View       Inventory       Administrati         New       Image: Period Science       Image: Period Science       Image: Period Science         Export       Image: Period Science       Image: Period Science       Image: Period Science         Print Maps       Image: Period Science       Image: Period Science       Image: Period Science         Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science         Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science         Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science         Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science         Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science         Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science         Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science         Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science       Image: Period Science



Deploy OVF Template	-	
Source Select the source location.		
Source OVF Template Details Name and Location Disk Format Ready to Complete	Deploy from a file or URL Tenter a URL to download and install the OVF package from the Internet, or specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.	
	specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.	

Step 3 Verify OVF Template	On the OVF Template Deploy OVF Template OVF Template Details Verify OVF template details	<b>e Details</b> verif <u>y</u>	y the template details and click <b>Next</b> .		×
	Source OVF Template Details Name and Location Disk Format Ready to Complete	Product: Version: Vendor: Publisher: Download size: Size on disk: Description:	CLONWLSCANX- No certificate present Less than 1 MB Unknown (thin provisioned) 60.0 GB (thick provisioned) Clone Systems Scanning VM Configured for 172.16.1.26 netmask 255.255.0.0 gateway 172.16.1.250 Issues or questions please contact: esupport@clone-systems.com		
			< Back N	lext > C	ancel



Step 4	On the Name and Lo	cation step enter a name for the Internal Scanner and click	Next.	
Set Name and Location	Deploy OVF Template Name and Location Specify a name and location	— on for the deployed template		×
	Source OVF Template Details Name and Location Disk Format Ready to Complete	Name: CLONWLSCANK- The name can contain up to 80 characters and it must be unique within the inventory folder	r.	
		< Back Next >	Can	icel





Step 5	On the <b>Disk Format</b>	step select the Datas	tore information	for your corporate	e network a	and click <b>Next</b> .
Select the Datastore	Deploy OVF Template Disk Format In which format do you way	ant to store the virtual disks?			- 0	×
	Source OVF Template Details Name and Location <b>Disk Format</b> Ready to Complete	Datastore: Available space (GB):	datastore 1 91.6			
		Thick Provision Lazy Zerce     Thick Provision Eager Zer     Thin Provision	oed			
				< Back Nex	rt > Ca	ancel

Step 6	On the <b>Ready to cor</b>	nplete step click Finish.		
Complete configuration	Note: Once the Impo powering it on. Deploy OVF Template Ready to Complete Are these the options you	ort has completed confirm	your network settings for the Internal Scanne $ \square$ $\times$	er before
	Source OVF Template Details Name and Location Disk Format Ready to Complete	When you dick Finish, the deployment Deployment settings: OVF file: Download size: Size on disk: Name: Host/Cluster: Datastore: Disk provisioning: Network Mapping: Power on after deployment	ent task will be started. D:\CLONWLSCANXv5\CLONWLSCANXv.ovf Less than 1 MB 60.0 GB CLONWLSCANX· CLONWVMWARE-ESX.clone-systems.com datastore1 Thick Provision Lazy Zeroed "VM Network" to "VM Network"	
			< Back Finish Cancel	



# **VMWARE WORKSTATION**

#### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scanner on VMware Workstation.





Step 2 Set Name and Storage	The Import Virtual Machine Wizard will begin. Select a Name for the Internal Scanner and click Import.
Path	Import Virtual Machine       X         Store the new Virtual Machine       Provide a name and local storage path for the new virtual machine.         Name for the new virtual machine:       Clone Systems Scanner         Storage path for the new virtual machine:       Browse         D:\Virtual Machines\Clone Systems Scanner       Browse         Help       Import       Cancel
Step 3	After the Internal Scanner is imported, change the network adaptor for your corporate network.
Configure Networking	Note: Confirm your network settings for the Internal Scanner before powering it on.



# **CITRIX XENSERVER**

### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scanner on Citrix Xenserver.

	Steps for Importing the Internal Scanner into Citrix Xenserver
Step 1	From the XenCenter File menu click Import to begin the Import Wizard.
Start the Import Wizard	😆 XenCenter
	File       View       Pool       Server       VM       Storage       Tem         Import       Import Search       Import Server List         Exit       ne-syste       Pool G



Step 2	On the <b>Import Sour</b> the Tarball and click	ce step select the ovf/ova file for the Internal Scanner that you extracted from Next.			
Select Source for					
Internal Scanner	😣 Import	– 🗆 X			
	Locate the file you want to import     2				
	Import Source Location Storage	Enter the pathname of an exported VM or template, an OVF/OVA package or a virtual hard disk image file or click Browse to find the file you want.			
	Networking Finish	Filename: D:\VMS\CLONWLSCAN-INT-VBox.ova			
	citrix.	< Previous Next > Cancel			
Step 3	On the <b>Location</b> ste	ep select your Pool or Server that you want to configure the Internal Scanner on			
Select Location					
	S Import OVF/OVA Package	-			
	Select the location wh	ere the imported VM will be placed			
	Import Source EULAs	Choose the pool or standalone server where you want to place the VM(s). If required, you can also specify a Home Server within the selected pool for each imported VM.			
	Location Storage Networking Security OS Fixup Settings Transfer VM Settings Finish	Import VM(s) to: CLONWPOOL  Assign imported VM(s) to a home server:  VM Home Server  CLONWLSCANVB-INT_Import Don't select a target server			
	CİTRIX'	< Previous Next > Cancel			



Step 4	On the <b>Storage</b> step select the storage location and click <b>Next</b> .
Select Storage	S Import OVF/OVA Package — X
Location	Select target storage
	Import Source       EULAs         EULAs       Location         Storage       Place the virtual disks in the VMs you are importing onto storage repositories (SRs) in the destination pool or standalone server.         Networking       Place all imported virtual disks on this target SR:         Security       O Fixup Settings         Transfer VM Settings       VM - Virtual Disk         Finish       VM - Virtual Disk         Storage Repository       CLONWLSCANVB-INT_Import - disk2 (60 GB)         Clone-Services, 1176.4 GB available       •
Step 5	On the Networking step select the network interfaces for the Internal Scanner and click Next.
Configure Interface	🔕 Import OVF/OVA Package — 🗆 X
Adapters	Select network to connect VM 3
	Import Source     Map the virtual network interfaces in the VMs you are importing to networks in the destination pool or standalone server.       EULAs     Virtual network interfaces in imported VMr;
	Storage VM - Virtual Network Interface Target Network
	Networking CLONWLSCANVB-INT_Import - Ethernet adapter on 'Bridged' ( <autogenerated mac="">) LAN</autogenerated>
	Security OS Fixup Settings Transfer VM Settings Finish
	CITRIX
	< Previous Next > Cancel



Step 6	On the OS Fixup Settings select Don't user Operating System Fixup and click Next.
Configure OS Settings	<ul> <li>Import OVF/OVA Package</li> <li>Import Source</li> <li>Import Source</li> <li>EULAs</li> <li>Location</li> <li>Storage</li> <li>Networking</li> <li>Scurity</li> <li>Operating System Fixup to ensure hyperoplane in the VMs that might prevent the operating system of the VM from booting.</li> <li>Operating System Fixup is supplied as a bootable ISO image which is attached to the DVD drive of the imported VM and which performs necessary repairs to the VM when it is first started.</li> <li>Operating System Fixup is supplied as a bootable ISO image which is attached to the DVD drive of the imported VM and which performs necessary repairs to the VM when it is first started.</li> <li>Operating System Fixup is the VMs being imported were created on XenServer.</li> <li>Obstart us option if the VMs being imported were created on a hypervisor other than XenServer.</li> <li>Location of OS Fixup ISO: [SO-TempNew (1492.7 GB)]</li> </ul>
Step 7 Configure Networking	CITRIX: <previous next=""> Cancel On the Transfer VM Settings step configure your corporate network information for the Internal Scanner and click Next. Import OVF/OVA Package — X</previous>
	Configure networking options for the Transfer VM     Import Source   EULAs   Location   Storage   Networking   Security   OS Fixup Settings   Transfer VM Settings   Finish     Subnet mask:   Gateway:     Citrex:
	<pre>CITRIX </pre> Cancel

Step 8	On the <b>Finish</b> step review the configuration settings and click <b>Finish</b> to begin the import process.
<b>Review Import Settings</b>	Note: Once the Import has completed confirm your network settings for the Internal Scanner before
and Import the Internal	powering it on.
Scanner	Import OVF/OVA Package - X
	Import Source         EULAs         Location         Storage         Networking         Security         OS Fixup Settings         Finish         Finish         Citre;x:         Citre;x:         Package name:         CLONWLSCAN-INT-VBox         Verify digital signature:         No         Target:         Storage:         Networking         Security         OS Fixup Settings         Transfer VM Settings         Target:         Storage:         Network:         Target:         Storage:         Network:         Transfer VM network interface:         Network:         Transfer VM network interface:         Network:         Transfer VM network interface:         No         Target:         Target: </th



# **MICROSOFT HYPER-V**

### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scanner on Microsoft Hyper-V.

	Steps for Impo	orting the Internal Scanner into Mic	rosoft Hyper-V	
Step 1	From the Hyper-V	/ manager click Import Virtual Mana	ger to begin the Import Wizard.	
Start the import wizard	Image: Action view Flep       I	Virtual Machines       Name     State       CPU Usage     Assigned to the series of the ser	Actions         WIN-79CPVSFGPV3         New         Import Virtual Machine         Hyper-V Settings         Virtual Switch Manager         Virtual SAN Manager         Virtual SAN Manager         Edit Disk         Inspect Disk         Stop Service         Remove Server         Befreich         View         View	



Step 2	On the <b>Before You Begin</b> step click <b>Next</b> .	
Begin the Import Wizard	Import Virtual Machine ×      Before You Begin	
	Before You Begin       This wizard helps you import a virtual machine from a set of configuration files. It quides you through resolving configuration problems to prepare the virtual machine for use on this computer.         Select Virtual Machine       Choose Import Type         Summary       Summary	
	Do not show this page again	
	< Previous Next > Finish Cancel	
Step 3	On the Locate Folder step select the VM image file for the Internal Scanner that you extracted fro	om
Select Source for		
Internal Scanner	Import Virtual Machine X      Locate Folder	
	Retore You Renin Specify the folder containing the virtual machine to import	
	Locate Folder       Browsc         Select Virtual Machine       Choose Import Type         Summary       Folder:	
	< Previous Next > Finish Cancel	



Step 4	On the Select Virtual	Machine step select the Internal Scanner a	nd click <b>Next</b> .	
Select Internal Scanner	Import Virtual Machine  Select Virtual	Machine	×	
	Before You Begin Locate Folder Select Virtual Machine	Select the virtual machine to import:	Date Created	
	Choose Import Type Summary	CLONWLSCAN-INT-HV	7/12/2018 10:18:43 AM	
		< Previous Next >	Finish Cancel	
Step 5	On the <b>Choose Impor</b> click <b>Next</b> .	rt Type select Copy the virtual machine (c	reate a new unique ID)	and then
Choose Import Type	Import Virtual Machine		×	
	Choose Import Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	choose the type of import to perform:            Register the virtual machine in-place (use the existing unique II             Restore the virtual machine (use the existing unique ID)             Copy the virtual machine (create a new unique ID)	5)	
		< Previous Next >	Finish Cancel	



Step 6	On the Choose Destination step select the storage location for your environment and click Ne	ext.
Choose Destination for Internal Scanner	<ul> <li>Import Virtual Machine</li> <li>Choose Folders for Virtual Machine Files</li> </ul>	
	Before You Begin       You can specify new or existing folders to store the virtual machine files. Otherwise, the wizard imports the files to default Hyper-V folders on this computer, or to folders specified in the virtual machine configuration.         Select Virtual Machine       Store the virtual machine in a different location         Choose Destination       Virtual machine configuration folder:         C:\ProgramData\Vircrosoft\Vindows\Hyper-V\       Browse         Checkpoint store:       C:\ProgramData\Vircrosoft\Vindows\Hyper-V\         Smart Paging folder:       C:\ProgramData\Vircrosoft\Vindows\Hyper-V\         Browse       Browse	
	< Previous Next > Finish Cancel	
Step 7 Choose Destination for	On the <b>Choose Storage Folders</b> step select the destination for the virtual hard disks used by Internal Scanner then click <b>Next</b> .	the
virtual hard disks	Import Virtual Machine ×      Choose Folders to Store Virtual Hard Disks	
	Before You Begin       Where do you want to store the imported virtual hard disks for this virtual machine?         Locate Folder       Location:         Select Virtual Machine       Choose Import Type         Choose Destination       Choose Storage Folders         Summary       Summary	
	< Previous Next > Finish Cancel	



Step 8 Review Import Settings	On the <b>Summary</b> step review the configuration settings and click <b>Finish</b> to begin the import process.
and Import the Internal	Note: Once the Import has completed confirm your network settings for the Internal Scanner before
Scanner	powering it on.
	Import Virtual Machine X
	Completing Import Wizard
	Before You Begin     You are about to perform the following operation.       Locate Folder     Description:
	Select Virtual Machine       Virtual Machine:       CLONWLSCAN-INT-HV         Choose Import Type       Import file:       C:\hyperV-export\CLONWLSCAN-INT-HV\Virtual Machines\2A56         Choose Destination       Import file:       C:\programData\Vicrosoft\Windows\Hyper-V\         Choose Storage Foldera       Virtual machine configuration folder:       C:\ProgramData\Vicrosoft\Windows\Hyper-V\         Summary       Virtual hard disk destination folder:       C:\ProgramData\Vicrosoft\Windows\Hyper-V\         Summary       Virtual hard disk destination folder:       C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\
	To complete the import and close this wizard, click Finish.
	< Previous Next > Finish Cancel



# **AWS MARKETPLACE**

#### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scaner on AWS Marketplace.

#### Import the AWS Security Scanner





Step 2	From the Amazon EC2	2 dashboard,	choose Instance and then Launch Instance.
Launch Instance	New EC2 Expe Tell us what you th	rience	Launch Instance  Connect Actions
	EC2 Dashboard	New 🔺	Q Filter by tags and attributes or search by keyword
	Events		
	Tags		4
	Reports		
	Limits		
	▼ INSTANCES		
	Instances		
		_	
Step 3	On the <b>Choose an Am</b> category on the left a	<b>nazon Machi</b> i nd search foi	<b>Te Image (AMI)</b> page, choose the <b>AWS Marketplace</b> <b>Clone Systems Scanner</b> and click on <b>Select</b>
	1. Choose AMI     2. Choose Inst     Step 1: Choose an     An AMI is a template that contain     Clone Systems scanner	ance Type 3. Confi Amazon Ma ns the software config	pure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review Chine Image (AMI) guration (operating system, application server, and applications) required to launch your ins
		_	
	Quick Start (0)		
	My AMIs (0)	Security Scanning	CloneGuard Enterprise Compliance Scanner by Clone Systems Inc ★★★★★ (0) CG-SCAN 1.0.3a By Clone
	Community AMIs (0)		Linux/Unix, Ubuntu 18.04   64-bit (x86) Amazon Machine Image (AMI)   Updated: 11/18/19 Assess the security and integrity of your infrastructure to identify vulnerabilities and obtain reco
			More info
Step 4	A dialog displays an o	verview of th	e product you've selected. You can view the pricing
Continue	information, as well a	s any other i	nformation that the vendor has provided. When you're
Continue	ready, choose Contin	ue.	



		1			_		
hoose Instance Type	instance to la	unch. When չ	/ou're done,	choose Next: C	Configure Instan	<b>ce Details</b> . The	
	t2.large shoul	t2.large should work for most environments. You can always the instance at a later date.					
	Click on <b>Revie</b>	w and Launc	h				
	Currently selected: t2.large Note: The vendor recommer	(Variable ECUs, 2 vCPUs, 2 nds using a <b>t2.large</b> instance	.3 GHz, Intel Broadwell E5-2 (or larger) for the best exper	2686v4, 8 GiB memory, EBS only) rience with this product.	1		
	F	amily -	Туре –	vCPUs (j) -	Memory (GiB) ~	Instance Storage (GB) ()	
	Ø Gener	ral purpose	t2.nano	1	0.5	EBS only	
	Gener	ral purpose	t2.micro Free tier eligible	1	1	EBS only	
	Ø Gener	ral purpose	t2.small	1	2	EBS only	
	Ø Gener	ral purpose	t2.medium	2	4	EBS only	
	Gene	ral purpose	t2.large	2	8	EBS only	
	Gener	ral purpose	t2.xlarge	4	16	EBS only	
Step 6 Launch Instance	Choose Launc	ral purpose ral purpose :h to select or	t2.xlarge t2.2xlarge	4 8 y pair, and laun	16 32 ch your instance	EBS only EBS only	
Step 6 Launch Instance	Choose Launc Step 7: Review I Please review your instance	ral purpose ral purpose :h to select or nstance Launch launch details. You can go t	t2 xlarge t2 2xlarge	4 8 y pair, and laun	16 32 ch your instance	EBS only EBS only	
Step 6 Launch Instance	Choose Launc Step 7: Review I Please review your instance • AMI Details	ral purpose ral purpose :h to select or nstance Launch launch details. You can go t	t2 xlarge t2 2xlarge	4 8 y pair, and laun	16 32 ch your instance	EBS only EBS only	
Step 6 Launch Instance	Choose Launc Step 7: Review I Please review your instance • AMI Details CloneGuar Root Device Ty	ral purpose ral purpose :h to select or nstance Launch launch details. You can go t d Enterprise Compliance se ebs Virtualization type: tym	t2 xlarge t2 2xlarge r create a key Nack to edit changes for each Scanner by Clone Syste	4 8 y pair, and laun ch section. Click Launch to assig tems Inc	16 32 ch your instance	EBS only EBS only	
Step 6 Launch Instance	Choose Launce	ral purpose ral purpose ral purpose :h to select or nstance Launch launch details. You can go to d Enterprise Compliance se: ebs Virtualization type: hvm ware Fees: S0.00 per hour of	t2 xlarge t2 2xlarge	4 8 y pair, and laun ch section. Click Launch to assig tems Inc	16 32 ch your instance	EBS only EBS only	
Step 6 Launch Instance	Choose Launce	ral purpose ral p	t2.xlarge t2.2xlarge	4 8 y pair, and laun ch section. Click Launch to assig tems Inc onal taxes or fees may apply. until you terminate the instance.	16 32 ch your instance	EBS only EBS only Complete the launch process. Edit AMI	
Step 6 Launch Instance	Choose Launc Step 7: Review I Please review your instance • AMI Details CloneGuar Root Device Ty Hourly Soft Software chi By launching End User Li	ral purpose ral p	t2 xlarge t2 2xlarge	4 8 y pair, and laun ch section. Click Launch to assig tems Inc onal taxes or fees may apply. until you terminate the instance. Ind agree that your use of this soft	16 32 ch your instance n a key pair to your instance and c	EBS only EBS only Complete the launch process. Edit AMI	
Step 6 Launch Instance	Choose Launce Step 7: Review I Please review your instance • AMI Details CloneGuar Root Device Ty Hourly Soft Software chi By launching End User Lu	ral purpose ral p	t2.xlarge t2.2xlarge	4 8 y pair, and laun ch section. Click Launch to assig tems Inc onal taxes or fees may apply. until you terminate the instance. id agree that your use of this soft	16 32 ch your instance n a key pair to your instance and c	EBS only EBS only Complete the launch process. Edit AMI	
Step 6 Launch Instance	Choose Launc Step 7: Review I Please review your instance • AMI Details CloneGuar Root Device Ty Hourly Soft Software cha By launching End User Li • Instance Type	ral purpose rational	t2 xlarge t2 2xlarge	4 8 y pair, and laun ch section. Click Launch to assig tems Inc onal taxes or fees may apply. until you terminate the instance. util agree that your use of this soft instance Storage (GB)	16         32         ch your instance         n a key pair to your instance and compare is subject to the pricing terms         EBS-Optimized Available	EBS only EBS only Complete the launch process. Edit AMI	
Step 6 Launch Instance	Choose Launc Step 7: Review I Please review your instance • AMI Details CloneGuar Root Device Typ Hourly Soft Software chi By launching End User Li • Instance Type Iz Jarge	ral purpose rational purpose rat	12.xlarge       12.2xlarge       r Create a key       xack to edit changes for each       xack to edit changes for each	4 8 y pair, and laun y pair, and laun ch section. Click Launch to assig tems Inc ad agree that your use of this soft nstance Storage (GB) EBS only	16         32         ch your instance         n a key pair to your instance and c         ware is subject to the pricing terms         EBS-Optimized Available         -	EBS only EBS only EBS only Complete the launch process. Edit AMI Edit instance type Edit instance type Low to Moderate	
Step 6 Launch Instance	Choose Launc Gene Choose Launc Step 7: Review I Please review your instance • AMI Details CloneGuar Root Device Typ Hourly Soft Software cha By launching End User Li • Instance Type t2 large • Security Groups	ral purpose ration support of the su	12 xlarge       12 2xlarge       r create a key       xack to edit changes for each       xack to edit changes for each	4 8 y pair, and laun y pair, and laun ch section. Click Launch to assig tems Inc notal taxes or fees may apply. until you terminate the instance. und agree that your use of this soft instance Storage (GB) EBS only	16         32         ch your instance         n a key pair to your instance and colspan="2">and colspan="2"         and colspan="2" and colspa	EBS only EBS only EBS only Complete the launch process. Edit AMI Edit instance type Edit instance type Network Performance Low to Moderate Edit security groups	
Step 6 Launch Instance	Choose Launce Step 7: Review I Please review your instance • AMI Details CloneGuar Root Device Typ Hourly Soft Software chi By launching End User Li • Instance Type 12 large • Security Groups Security group name	ral purpose rational p	t2.xlarge       t2.2xlarge       r Create a key       xack to edit changes for each       xack to edit changes       xack	4 8 y pair, and laun y pair, and laun ch section. Click Launch to assig tems Inc anal taxes or fees may apply. until you terminate the instance. ad agree that your use of this soft instance Storage (GB) EBS only agree Systems Inc-CG-SCAN	16         32         ch your instance         n a key pair to your instance and c         ware is subject to the pricing terms         EBS-Optimized Available         -         1-0-3a-AutogenByAWSMP-	EBS only EBS only EBS only EBS only EBS only EBS only Edit only Edit only Edit AMI Edit instance type Edit security groups	



Download	Select an existing key pair or create a new key pair
	A key pair consists of a <b>public key</b> that AWS stores, and a <b>private key file</b> that you store. Together, the allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.
	Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.
	Create a new key pair
	Key pair name
	security scanner key pair
	Download Key Pair
	You have to download the <b>private key file</b> (*.pem file) before you can continue. <b>Store</b> it in a secure and accessible location. You will not be able to download the file again after it's created.
	Cancel Launch Instances

# Configure the AWS Security Scanner

Steps for Importing the Internal Scanner into AWS Marketplace			
Step 1	After deployment, you will need the key pair, created above during the EC2 setup, and the Elastic		
	IP of the instance, to connect the instance.		
Connect to the			
instance	The box is Ubuntu-based, so you will need to use SSH to access the box.		
	<b>Note:</b> if you are using putty, please follow the instructions in the link below on converting the keypair, for putty compatibility.		
	https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html		



	The username is <b>ubuntu.</b>
	The example below is using the default OpenSSH client that comes with Windows 10 (1809 and above).
	C:\aws>ssh -l ubuntu -i linuxtest.pem 34.234.93.101
	After logging you will be presented with a menu similar to the below menu:
	Clone Systems - Appliance Setup Menu 1.0.3
	<ol> <li>Configure Network (LAN) Interface</li> <li>Configure Connectivity to the Manager</li> <li>Reboot Appliance</li> <li>Shutdown Appliance</li> <li>Change Password</li> <li>Troubleshooting Tools</li> <li>Setup Clone SOC Access</li> <li>Exit Menu</li> </ol> Enter choice [1 - 8]:
Step 2	The first step is to configure your network settings (IP/subnet/gateway/DNS). To configure the network settings, select 1 from the text menu and press <b>Enter</b> . The settings default to DHCP, which
Configure Network Settings	the AWS default.
	This new menu will also display your current configuration. If you need to update this, you can choose option 1 for DHCP (which is selected by default), option 2 will allow you to set a static IP, or option 3 to return to the main menu.
	Current IP address configuration:
	Address type: DHCP IP address: 172.31.14.88 Subnet mask: 255.255.240.0 Gateway: 172.31.0.1 Broadcast: 172.31.15.255 Nameservers: 127.0.0.53
	<ol> <li>Configure Interface for DHCP</li> <li>Configure Interface with Static IP</li> <li>Return to Main Menu</li> <li>Please choose an option [1 - 3]:</li> </ol>
	Setting a Static IP address
	To set a static IP address select option The IP Address must be in dotted decimal format (Example: 192.168.1.20) and then press <b>Enter</b> .



Current IP address configuration: IP address: 192.168.1.20 Subnet mask: 255.255.255.0 Gateway: 192.168.1.1 Network: 192.168.1.0 Broadcast: 192.168.1.255 Nameservers: 192.168.1.1 4.2.2.2
Please enter the IP address you would like to configure, (Format 192.168.1.2):
The second prompt will ask you to enter your subnet mask which must be in dotted decimal format (Example: 255.255.255.0) and then press <b>Enter</b> . Please enter the subnet mask you would like to configure, (Format 255.255.255.0): 255.255.128
The third prompt will ask you to enter your gateway address which must be in dotted decimal format (Example: 192.168.1.1) and then press <b>Enter</b> .
Please enter the gateway you would like to configure, (Format 192.168.1.1): 192.168.0.1_
The fourth prompt will ask you to enter your DNS servers. Typically, you will configure your internal DNS servers that exist within your infrastructure. If you do not have a DNS server you can use the free open DNS servers 8.8.8.8 and 4.2.2.2. Note: The DNS IP address need to be in dotted decimal format and the DNS servers need to be separated by a space (Example: 8.8.8.8 4.2.2.2) and then press <b>Enter</b> .
The last prompt will display the new Network configuration and ask you to confirm the changes. Enter <b>y</b> for Yes after which the Internal Scanner will be rebooted within one minute or <b>n</b> for No. After applying the new configuration, you may need to exit out of the current session and re-establish the connect with the newly configured IP address.



Step 3 Configure Clone Access Keys	The next step is to configure the clone access keys need for the secure tunnel to be establish between the scanning front end and the virtual scanner. From the main menu select option 7, this will take about a minute to complete and exit to the main menu Clone Systems - Appliance Setup Menu 1.0.3 Clone Systems - Appliance Setup Menu 1.0.3 Configure Network (LAN) Interface Configure Connectivity to the Manager Reboot Appliance Setup Clone Soc Access Exit Menu Enter choice [1 - 8]:
Step 4 Configure Connectivity to the Manager (scanning front-end)	<ul> <li>Before you begin this step, you will need to make sure your instance access SSH access (TCP port 22) to the scanning front end (the address will vary between on your front end, it will be in the (38.126.154.0/24 or 38.123.140.0/25 IP blocks). You will also need the setup email from the front end, in this email it will provide you with URL for the manager, username, key (aka password), mgmt. port, and scanner port. If you do not have this email you will need to complete the New scanner setup in the front end.</li> <li>To begin select option 2 Configure connectivity to the manager, it will clear the screen and present you will the new menu. Option 1 will display the current tunnel status, option 2 will delete the tunnel, and option 3 will create the tunnel and option 4 will return you to the main menu. Select option 3 and press Enter to continue.</li> </ul>
	Clone Systems - Appliance Tunnel Setup Menu 1. Check Manager Tunnel Status 2. Delete Existing Tunnel 3. Create Manager Tunnel 4. Return to Main Menu Please choose an option [1 - 4]: You will be prompted for the information from the email, first it will ask for the URL you can put the address in as either a dns name (if you have dns configured) or by IP address for example pciscan.clone-systems.com or 38.123.140.80, then press Enter. It will now prompt you for a username enter the username and press Enter. It will now prompt you for the key please note that the key will not be displayed on the screen, you will now be asked for the management port and scanner port, press Enter after entering each. **Please note the below screenshot is an example



only do not use these values. Please enter the Scanning Portal URI: pciscan.clone-systems.com Please enter the user name:csadmin-oRg Please enter the key (you will not see any characters): Please enter the Managment Port: 29377 Please enter the Scanner Port: 29376 This will take a few minutes to complete the tunnel setup, when it is finish you will be presented with the screen with a lot of information, what you want to look for the tunnel\_alive : true, this means that the tunnel is connected and activity, \*\*Please note the values on the screenshot are for example only ], "autossh\_pid" : "12373", "tunnel\_alive" : true, "running" : true, "name" : "Tunnel-2pciscan.clone-systems.com" ess [Enter] key to continue. Press Enter this will take you to the main menu, if you want to double check the tunnel status, you can return the main, by selecting option 2, then option 1 Check Manger Tunnel Status. \*\* Please note that the screenshot below is for an example only and your output may different and may not be in color.

1. C	eck Manager 1	Tunnel Stat	us		
2. D	lete Existing	g Tunnel			
4. R	turn to Main	Menu			
Plea	e choose an o	option [1 -	4]: 1		
Curr	nt Tunnel Lis	sting:			
1 unno {	I NUMber 1 ):				
່ "nai "uu:	e": "Tunnel-2 d": "013462a0	2pciscan.cl 0-6fa7-4593	one-system: a95f-c069	s.com", 5b6de259	۳,
"rui }	ning": true				
Press	[Enter] key t	to continue			



(Optional)	If you are finished and want to delete the tunnel to the manger, you will select option 2, then select
Step 6	option 2 to delete the tunnel. It will prompt you for which tunnel you will like to delete (typically there will only be one tunnel, tunnel 1, but there could be multiple tunnels depending on the
Deleting the Tunnel	configurations). Select the tunnel number you want to delete (typically it is 1), from the display the press <b>Enter</b> , it will prompt you to make sure you want to delete the tunnel, when the tunnel is
	deleted you will not be able to use this scanner to do scanning, press Y for yes or N or No.
	Clone Systems - Appliance Tunnel Setup Menu
	<ol> <li>Check Manager Tunnel Status</li> <li>Delete Existing Tunnel</li> <li>Create Manager Tunnel</li> <li>Return to Main Menu</li> </ol>
	Please choose an option [1 - 4]: 2
	Current Tunnel Listing: Tunnel Number 1 ):
	<pre>"name": "Tunnel-2pciscan.clone-systems.com", "uuid": "013462a0-6fa7-4593-a95f-c0695b6de259", "running": true }</pre>
	which tunnel do you want to delete? (Select 1-1): 1
	<pre>/ou are about to delete the tunnel with uuid: 013462a0-6fa7-4593-a95f-c0695b6de259. are you sure (y/n) ?</pre>
	The command will take a minute or two to complete, you will then give you a status, a status of true
	mean the tunnel was torn down and delete, a status of false mean something went wrong, if this
	happen please try again, and it it persist please contact support at <u>esupport@clone-systems.com</u> .
	You are about to delete the tunnel with uuid: 013462a0-6ta/-4593-a95t-C0695D6de259. are you sure (y/n) ?y /es
	"status" : true
	You will be returned to the main menu, after a few seconds.



# **AZURE MARKETPLACE**

#### Overview

The following will provide an overview of how to configure the Clone Systems Internal Scaner on AWS Marketplace.

#### Import the AZURE Security Scanner





Step 2	Click the Get it Now button, and it will bring up the Create Screen
Deploy the AZURE Scanner	Home > CloneGuard Enterprise Compliance Scanner
	CloneGuard Enterprise Compliance Scanner Clone Systems, Inc.
	CloneGuard Enterprise Compliance Scanner         Clone Systems, Inc.         Create       Start with a pre-set configuration         Want to deploy programmatically? Get started
	Once you click Create, the Create a virtual Machine wizard with appear. Assign the VM to a
	resource group or create a new resource group. In the Instance Details section fill out the
	virtual machine name and select the region and availability option that your organization
	uses, leave the image as CloneGuard Enterprise Compliance Scanner, and the default size is



Create a virtual machine	
Basics Disks Networking	Management Advanced Tags Review + create
Create a virtual machine that runs image. Complete the Basics tab then Revie customization.	Linux or Windows. Select an image from Azure marketplace or use y ew + create to provision a virtual machine with default parameters c
Project details	
Select the subscription to manage your resources.	deployed resources and costs. Use resource groups like folders to c
Subscription * 🛈	Micro
Kesource group	Create new
Instance details	
Virtual machine name * 🛈	cgent-scanner
Region * ①	(US) East US
Availability options 🕕	No infrastructure redundancy required
Image * 🕕	CloneGuard Enterprise Compliance Scanner
	Browse all public and private images
Azure Spot instance 🛈	🔵 Yes 💿 No
Size * 🛈	Standard D2s v3
	2 vcpus, 8 GiB memory (\$70.08/month) Change size
Administrator account	
Authentication type ①	SSH public key 💽 Password
Under the Administrator Acco	ount section, select Password as the Authentication type
	uard for management of the bay. Click Next to may a to



٦

Step 3	The Disk Section is next, we do not require any changes to this section, please click next and
Finish VM	move to the networking section.
Finish VM Deployment	move to the networking section. In the networking section of the Create VM wizard, you can select your network options, the scanner requires SSH access (TCP/22) out bound to your scanning web interface (such as pciscan.clone-systems.com).



Home > CioneGuard Enterprise Complian	ice Scanner > Create a virtual machine
Create a virtual machine	
Basics Disks <u>Networking</u> Manage Define network connectivity for your virtu ports, inbound and outbound connectivity Learn more	igement Advanced Tags Review + create ial machine by configuring network interface card (N y with security group rules, or place behind an existi
Network interface	
When creating a virtual machine, a netwo	rk interface will be created for you.
Virtual network * ①	Default
	Create new
Subnet * 🕕	default
	Manage subnet configuration
Public IP 🕕	(new) cgent-scanner-ip
Nic network security group ①	None Basic Advanced
	This VM image has preconfigured NSG rules
Configure network security group *	(new) cgent-scanner-nsg
	Create new
Accelerated networking ①	On Off
	The selected image does not
Load balancing	
You can place this virtual machine in the b	backend pool of an existing Azure load balancing so
Place this virtual machine behind an existing load balancing solution?	🔿 Yes 💿 No
Review + create < Pr	revious Next : Management >
lick Next to move to the Mana	gement section, it is setup to allow default SSH in bound for
nanagement, keep the default	settings, it your require an advanced or tag setting you can
ontinue to those sections, they	y are not required for this image, after you have you setting
lick Review + Create.	



	w click create			
ноте	<ul> <li>Cioneguard Enterprise Co</li> </ul>	mpliance scanner > create a vir	tuar maci	
Crea	te a virtual machine	•		
~ v	/alidation passed			
Basic	cs Disks Networking	Management Advanced T	āgs R	
PROD	OUCT DETAILS			
Clone Scann by Clo	Guard Enterprise Complia ter one Systems, Inc.	Ince Not covered by credits 0.0000 USD/hr	5 O	
Stand by Mie	ard D2s v3 crosoft	Subscription credits ap 0.0960 USD/hr Pricing for other VM :	oply 🛈	
Terms	of use   Privacy policy	1 -		
Terms TEDM	e enloyment is now ir	a queue and you will rec	reive undates on	it progress the t
Terms TEDM Your D vary.	eployment is now in	n queue and you will rec	eive updates on	it progress, the t
Your D vary.	eployment is now ir	n queue and you will rec	eive updates on	it progress, the t
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Your D vary.	Deployment is now ir Deployment is now ir Dur deployment is unc ployment name: CreateVm-clone-sys scription:	a queue and you will rec derway tems.cg-entscan1-entsc1-2 Start time: a Correlation I	zeive updates on 8/24/2020, 2:41:42 PM D:	it progress, the t
Your D vary.	Deployment is now in Deployment is now in Dur deployment is unc ployment name: CreateVm-clone-sys scription: CreateVm-clone-sys scription: CreateVm-clone-sys scription: CreateVm-clone-sys	a queue and you will rec derway tems.cg-entscan1-entsc1-2 Start time: Correlation 1	zeive updates on 3/24/2020, 2:41:42 PM D:	it progress, the t
Terms TEDMA Your D vary. Yc Sub Res A Depl	Deployment is now ir Deployment is now ir Dur deployment is unc ployment name: CreateVm-clone-sys sscription: unce group: loyment details (Download) Resource	derway terws.cg-entscan1-entsc1-2 Start time:	seive updates on 3/24/2020, 2:41:42 PM D:	it progress, the t
Terms TEDMA Your D vary.	Deployment is now in Deployment is now in Dur deployment is unc ployment name: CreateVm-clone-sys sscription: Dource group: Dource group: Nource group: Nource CreateVm-clone-sys socription: Dource group: CreateVm-clone-sys socription: Dource group: CreateVm-clone-sys socription: Dource group: CreateVm-clone-sys socription: CreateVm-clone-sys socri CreateVm-clone-sys soc	derway tems.cg-entscan1-entsc1-2 Start time: Correlation I Type Microsoft.Network/networkInterface	ceive updates on 3/24/2020, 2:41:42 PM D: Status es Created	it progress, the f
Terms TEDM Your D vary. Yc Sub Res ^ Depl ©	Deployment is now ir Deployment is now ir Dur deployment is unc ployment name: CreateVm-clone-sys scription: iource group: loyment details (Download) Resource cgent-scanner604 cgent-scanner604	derway tems.cg-entscan1-entsc1-2 Start time: Correlation I Type Microsoft.Network/networkInterfac Microsoft.Network/network/networkSecurity	seive updates on 3/24/2020, 2:41:42 PM D: Status es Created Grou OK	it progress, the solution operation



Deploymen Subscriptio	nt name: CreateVm-clone-systems.cg-entscan1-entsc1	-2 Start time: 3/24/2020 Correlation ID: 4	, 2:41:42 PM	
Resource g	roup:			
🗸 Deploymen	t details (Download)			
^ Next steps				
Setup auto	o-shutdown Recommended			
Monitor V	M health, performance and network dependencies Re	commended		
Run a scrit	pt inside the virtual machine Recommended			
From the ov	verview page you will see the statu	s of the VM, and cu	urrent IP add	ress
From the ov	resource verview page you will see the statu . You will need the public address t	s of the VM, and cu o initialize the nev	urrent IP add v VM.	ress
From the ov information	resource rerview page you will see the statu . You will need the public address t tart <i>C</i> Restart <b>Stop </b> Capture <b>Delete C</b> Re	s of the VM, and cu to initialize the nev	urrent IP add v VM.	ress
From the ov information	resource rerview page you will see the statu . You will need the public address t art <i>C</i> Restart Stop Capture Delete C Runge) :	s of the VM, and cu o initialize the nev	urrent IP add v VM.	ress : N/A
From the ov information	resource rerview page you will see the statu . You will need the public address f tart C Restart Stop Capture Delete C Re nge) :	s of the VM, and cu to initialize the nev	Azure Spot Public IP address	ress : N/A : • • • • • • • • • • • • • • • • • • •
From the ov information	resource verview page you will see the statu . You will need the public address f tart C Restart Stop Capture Delete C Runge) : : Running : East US	s of the VM, and cu to initialize the nev	Azure Spot Public IP address	ress : N/A :
From the ov information	resource verview page you will see the statu . You will need the public address to tart  Restart  Stop  Capture  Delete  Renning : East US ) :	s of the VM, and cu to initialize the nev	Azure Spot Public IP address Public IP address Public IP address (IPv6)	ress : N/A : 10.4 : -
From the ov information	resource verview page you will see the statu . You will need the public address to tart C Restart Stop Capture Delete N Re nge) : : Running : East US ) : : : : : : : : : :	s of the VM, and cu to initialize the nev	Azure Spot Public IP address Public IP address Public IP address (IPv6) Private IP address (IPv6)	ress : N/A :
Connect ▷ SI Resource group (char Status Location Subscription ID Computer name	resource rerview page you will see the statu . You will need the public address to tart  Restart  Stop  Capture  Delete  Restart  Running East US : cgent-scanner	s of the VM, and cu to initialize the nev	Azure Spot Public IP address Public IP address Private IP address (IPv6) Private IP address (IPv6)	<pre>ress : N/A :</pre>



# Configure the AZURE Security Scanner

	Steps for Initializing AZURE Security Scanner
Step 1	After deployment, you will need the public IP address, created above during the deployment.
Connect to the	The box is Ubuntu-based, so you will need to use SSH to access the box.
Instance	You will need to use the username and password you entered during deployment.
	After logging you will be presented with a menu similar to the below menu:
	Clone Systems - Appliance Setup Menu 1.0.3
	<ol> <li>Configure Network (LAN) Interface</li> <li>Configure Connectivity to the Manager</li> <li>Reboot Appliance</li> <li>Shutdown Appliance</li> <li>Change Password</li> <li>Troubleshooting Tools</li> <li>Setup Clone SOC Access</li> <li>Exit Menu</li> </ol> Enter choice [1 - 8]:
Step 2	The first step is to configure your network settings (IP/subnet/gateway/DNS). To configure the
Configure Network	network settings, select 1 from the text menu and press <b>Enter</b> . The settings default to DHCP, which the AZURE default.
Settings	This new menu will also display your current configuration. If you need to update this, you can choose option 1 for DHCP (which is selected by default), option 2 will allow you to set a static IP, or option 3 to return to the main menu.
	Current IP address configuration: Address type: DHCP IP address: 172.31.14.88 Subnet mask: 255.255.240.0 Gateway: 172.31.0.1 Broadcast: 172.31.15.255 Nameservers: 127.0.0.53 1. Configure Interface for DHCP 2. Configure Interface with Static IP 3. Return to Main Menu Please choose an option [1 - 3]:







Step 3 Configure Connectivity to the Manager (scanning front-end)	<ul> <li>Before you begin this step, you will need to make sure your instance access SSH access (TCP port 22) to the scanning front end (the address will vary between on your front end, it will be in the (38.126.154.0/24 or 38.123.140.0/25 IP blocks). You will also need the setup email from the front end, in this email it will provide you with URL for the manager, username, key (aka password), mgmt. port, and scanner port. If you do not have this email you will need to complete the New scanner setup in the front end.</li> <li>To begin select option 2 Configure connectivity to the manager, it will clear the screen and present</li> </ul>	
	you will the new menu. Option 1 will display the current tunnel status, option 2 will delete the tunnel, and option 3 will create the tunnel and option 4 will return you to the main menu. Select option 3 and press <b>Enter</b> to continue.	
	Clone Systems - Appliance Tunnel Setup Menu	
	<ol> <li>Check Manager Tunnel Status</li> <li>Delete Existing Tunnel</li> <li>Create Manager Tunnel</li> <li>Return to Main Menu</li> </ol>	
	Yeau will be prepared for the information from the amail first it will ack for the UDL you can put the	
	address in as either a dns name (if you have dns configured) or by IP address for example pciscan.clone-systems.com or 38.123.140.80, then press <b>Enter</b> . It will now prompt you for a username enter the username and press <b>Enter</b> . It will now prompt you for the key please note that the key will not be displayed on the screen, you will now be asked for the management port and	
	scanner port, press <b>Enter</b> after entering each. **Please note the below screenshot is an example only do not use these values.	
	Please enter the Scanning Portal URI: pciscan.clone-systems.com	
	Please enter the user name:csadmin-oRg	
	Please enter the Managment Port: 29377 Please enter the Scanner Port: 29376	
	This will take a few minutes to complete the tunnel setup, when it is finish you will be presented with the screen with a lot of information, what you want to look for the tunnel_alive : true, this means that the tunnel is connected and activity, **Please note the values on the screenshot are for example	



only

in color.



```
Please choose an option [1 - 4]: 1
```

```
Current Tunnel Listing:
Tunnel Number 1 ):
```

"name": "Tunnel-2pciscan.clone-systems.com", "uuid": "013462a0-6fa7-4593-a95f-c0695b6de259", "running": true

Press [Enter] key to continue...

You are now ready to start your scanning; this is done on the front-end. If you have issues or questions please let us know at esupport@clone-systems.com.



(Optional)	If you are finished and want to delete the tunnel to the manger, you will select option 2, then select		
Step 4	option 2 to delete the tunnel. It will prompt you for which tunnel you will like to delete (typically there will only be one tunnel, tunnel 1, but there could be multiple tunnels depending on the		
Deleting the Tunnel	configurations). Select the tunnel number you want to delete (typically it is 1), from the display the press <b>Enter</b> , it will prompt you to make sure you want to delete the tunnel, when the tunnel is		
	deleted you will not be able to use this scanner to do scanning, press Y for yes or N or No.		
	Clone Systems - Appliance Tunnel Setup Menu		
	<ol> <li>Check Manager Tunnel Status</li> <li>Delete Existing Tunnel</li> <li>Create Manager Tunnel</li> <li>Return to Main Menu</li> <li>Please choose an option [1 - 4]: 2</li> </ol>		
	Current Tunnel Listing: Tunnel Number 1 ): "name": "Tunnel-2pciscan.clone-systems.com", "uuid": "013462a0-6fa7-4593-a95f-c0695b6de259", "running": true		
	} which tunnel do you want to delete? (Select 1-1): 1 You are about to delete the tunnel with uuid: 013462a0-6fa7-4593-a95f-c0695b6de259. are you sure (y/n) ?		
	The command will take a minute or two to complete, you will then give you a status, a status of true mean the tunnel was torn down and delete, a status of false mean something went wrong, if this happen please try again, and if it persist please contact support at <u>esupport@clone-systems.com</u> .		
	<pre>/ou are about to delete the tunnel with uuid: 013462a0-6fa7-4593-a95f-c0695b6de259. are you sure (y/n) ?y /es</pre>		
	You will be returned to the main menu, after a few seconds.		



# **INITIALIZE INTERNAL SCANNER**

#### Overview

The following will provide an overview of how to initialize the Internal Scanner for use with your Clone Systems Security Scanning solution.

**Note:** Please review the default settings detailed below before powering up the Internal Scanner as they may conflict with your existing Network environment. You can place the Internal Scanner in an isolated network / host only network connection which will provide you an opportunity to update the Network Settings that work best for your environment.

#### **Default Settings**

This Clone Systems Internal Scanner is shipped with default credentials and network settings. You should review this information and will likely need to change these settings so that you can use the Internal Scanner in your environment.

Internal Scanner Default Settings		
Default IP Address	192.168.1.20/24	
Default Gateway	192.168.1.1	
Default DNS	192.168.1.1 & 4.2.2.2	
Default Username	cloneadmin	
Default Password (This password is case sensitive)	CloneSy\$t3msScanner	



## Initialize the Internal Scanner

In	order to com	plete the cl	hanges, vou	will need	console access	to the Interna	l Scanner.
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	Steps for Initializing the Internal Scanner
Step 1	Log into your Clone Systems Partner Portal and navigate to the Scanners page.
Adding the Scanner to the Front-End Portal	Options - Admin -
	Targets
	Schedules
	Notifications
	Exceptions
	Credentials
	Port Lists
	Scanners
	Note: If you do not see this button, please verify that you are using the correct service.
	If you still do not see it, then your account has not been given permission to scan internally. Please contact the Clone Systems Security Operation Center at esupport@clone-systems.com.or
	<b>1.800.414.0321</b> to update your account.
	When on the Scanners page: click <b>New Scanner</b> , then select a <b>Name</b> for the Internal Scanner, and click <b>Create Scanner</b> (comment optional).
	Note: Once the Scanner has been created, Scanner Setup Info will be sent to your account's email address.



Step 2	After configuring the Network settings within your Virtual Infrastructure, start the Internal Scanner.
Login to the Internal Scanner from the Console	Access the Internal Scanner via a console session and at the Ubuntu login prompt login with the default username <b>cloneadmin</b> and password <b>CloneSy\$t3msScanner</b>
Step 3 Change the Default	Upon logging into the Internal Scanner, you will be presented with a text-based menu system to complete the initialization of the Internal Scanner.
Password	Clone Systems - Virtual Scanner Setup Menu 1. Configure Network (LAN) Interface 2. Configure Connectivity to the Manager 3. Reboot Appliance 4. Shutdown Appliance 5. Change Password 6. Troubleshooting Tools 7. Exit Menu Enter choice [ 1 - 6]
	Enter choice 5 to change the default password. You will be prompted to enter the current password which is the default password <b>CloneSy\$t3msScanner</b> and then prompted to enter a new password twice.
	Clone Systems - Virtual Scanner Setup Menu 1. Configure Network (LAN) Interface 2. Configure Connectivity to the Manager 3. Reboot Appliance 4. Shutdown Appliance 5. Change Password 6. Troubleshooting Tools 7. Exit Menu Enter choice [ 1 - 6] 5 Changing password for cloneadmin. (current) UNIX password: Enter new UNIX password: Retype new UNIX password:
	Upon successfully changing the default password you will be returned to the main menu. <b>Note</b> : There are no password recovery options. If you lose or forget the password you will need to reimport the Internal Scanner.
Step 3	Choose Option 1 from the menu.
Configure your Network Interface	This will clear the screen and present you with the current Network configuration and prompt you for a new IP address. The IP Address must be in dotted decimal format (Example: 192.168.1.20) and then press <b>Enter</b> .







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Connect the Internal Scanner to your Clone Systems Security Scanning solution	<ol> <li>The Clone Systems Security Scanning Manager IP address or DNS name</li> <li>The Password (Key) for connecting the Clone Systems Security Scanning Manager</li> <li>The Clone Systems Security Scanning Scanner Port</li> <li>The Clone Systems Security Scanning Management Port</li> <li>Choose Option 2 will open up a menu for configuring the Internal Scanners Tunnel back to your Clone Systems Security Scanning solution.</li> </ol>	
	Clone Systems - Virtual Scanner Setup Tunnel Menu 1- Check Manager Tunnel Status. 2- Delete Existing Tunnel 3 Create Manager Tunnel Please choice an option (1-3)	
	<b>1 – Check Manager Tunnel Status</b> : If selected will check the status of the tunnel. If no tunnel is configured it will return and error. When finished you can press <b>Enter</b> to return to the main menu.	
	<ul> <li>2 – Delete Existing Tunnel: If selected will prompt you to confirm that you want to delete the tunnel.</li> <li>Enter y to delete the tunnel or n to cancel and return to the main menu.</li> </ul>	
	<b>3 – Create Manager Tunnel</b> : If selected will prompt you for the information provided by the Clone Systems Security Operations Center. Start by selecting the type of appliance you are setting up which is the <b>Internal Scanner Appliance</b> so choose Option <b>1</b> . Next, you will be prompted for the Clone Systems Security Scanning <b>Manager IP address</b> or <b>DNS name</b> . Upon entering the Manager IP address or DNS name you will be prompted for the <b>Password (Key)</b> . Upon entering the Password, you will be prompted for the <b>Scanner Port</b> and then the <b>Management Port</b> for connecting the Clone Systems Security Scanning Manager.	
	If the settings are correct the tunnel will be created and you will be returned to the main text-based menu system.	
	At this point you should contact the Clone Systems Security Operation Center at <u>esupport@clone-</u> <u>systems.com</u> or <b>1.800.414.0321</b> to verify the tunnel.	
	Once the tunnel is verified by the Clone Systems Security Operation Center, you can use the Internal Scanner in your Clone Systems Security Scanning Solution.	
Step 5	Choosing Option <b>7</b> will exit you from the text-based menu system and return you to the Ubuntu login prompt.	



Exit the text-based menu system		
(Optional)	Choosing Option <b>6</b> will open up a menu with troubleshooting tools. You will have the option to:	
Step 6	<b>1 – Auto Test</b> : If selected will run ping to the configured Gateway and NSLookup to cnn.com. When finished you can press <b>Enter</b> to return to the main menu.	
Troubleshooting	<ul> <li>Custom Ping: If selected will prompt you for an IP address or DNS name to ping (Example: 92.168.0.12 or www.google.com). It will execute a Ping test and output the results to the screen. //hen finished you can press Enter to return to the main menu.</li> <li>Custom NSLookup: If selected will prompt you for a DNS name to lookup and then attempt to eturn the IP address from NSLookup for the DNS name entered. When finished you can press enter to return to the main entered. When finished you can press enter to return to the main entered. When finished you can press enter to return to the main menu.</li> <li>Exit: If selected this will exit you from the troubleshooting menu and return you to the main text-presed menu entered.</li> </ul>	
	Clone Systems - Virtual Scanner TroubleShooting Menu 1. Auto Test 2. Custom PING 3. Custom MsLookup 4. Exit troubleshooting menu Please choice the troubleshooting option _	

(Optional)	Choosing Option <b>3</b> will ask you to confirm that you want to reboot the Internal Scanner.
Step 7	Choosing Option 4 will ask you to confirm that you want to shutdown the Internal Scanner.
Rebooting and Shutting Down the Internal Scanner	Enter <b>y</b> for yes or <b>n</b> for no and then press <b>Enter</b> . <b>Note</b> : If you click <b>y</b> for yes, the Internal Scanner will reboot or shutdown within one minute depending on which menu option you selected.
	Clone Systems - Virtual Scanner Setup Menu This will reboot the server in 1 minute. Are you sure you want to do this (y/n)
(Optional)	If you want to allow your customer to use the scanner, you will have to set the necessary
Step 8	Testing, then enable Internal VRMS and/or Internal Penetration respectively (example below).
Allowing users to use the internal scanner	Exclude this Organization from the License Count (Unlimited Licenses) Enable PCI for this Organization Enable VRMS for this Organization Enable Penetration Testing for this Organization Enable Penetration Testing for this Organization Enable Settings
	Internal VRMS Enabled Disabled
	<b>Note</b> : If they did not have permission to VRMS and/or Penetration Testing previously, you will have to add a license for each new service.

