Implementar la máquina virtual de FDM desde Azure Marketplace mediante plantilla

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Introducción

Este documento describe la implementación de Cisco Secure Firewall Threat Defence Virtual (FDM) en una máquina virtual mediante Azure Marketplace y plantillas.

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Cisco Secure Firewall Management Center (FMC)
- Cisco Secure Firewall Threat Defence (FTD)
- Cuenta/acceso de Azure

Componentes Utilizados

La información que contiene este documento se basa en estas versiones de software:

- Cisco Secure Firewall Threat Defence Versiones virtuales: 7.4.1, 7.3.1, 7.2.7, 7.1.0, 7.0.6 y 6.4.0

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Configurar

Los clientes han encontrado problemas al intentar implementar Firepower Device Manager (FDM) en una máquina virtual desde Azure, específicamente al usar Azure Marketplace y las plantillas.

Implementar FDM desde una plantilla en Azure Portal

Para implementar FDM desde el portal de Azure, utilice este procedimiento:

1. Navegue hasta el portal de Azure y localice el Marketplace dentro de los Servicios de Azure. Busque y seleccione Cisco Secure Firewall Threat Defence Virtual - BYOL y PAYG.

≡ Microsoft Azure			₽ Searce	h resources, services, and docs (G+/)		😳 Copilot
Home > Marketplace …						
Get Started		×	Publisher name : All × Product T	vpe : All × Publisher Type : All ×	Operating System : All ×	Pricina : All ×
Service Providers	Azure services only					,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
Management	Showing 1 to 3 of 3 results for 'firepo	wer'. <u>Clear search</u>				
Private Marketplace Private Offer Management	SECURE	SECURE	SECURE B			
My Marketplace	Cisco Firepower eStreamer	Cisco Secure Firewall Management Center Virtual	Cisco Secure Firewall Threat Defense Virtual – BYOL and			
Favorites	Cisco Systems, Inc. Azure Application	Cisco Systems, Inc. Azure Application	Cisco Systems, Inc. Azure Application			
My solutions Recently created Private plans	Stream Firepower System Events to Microsoft Sentinel	Comprehensive visibility and control for your dynamic cloud environments in a single pane of glass	Secure your cloud with application visibility and control, IPS, malware defense, and URL filtering.			
Categories	Price varies	Price varies	Price varies			
Networking (3)		citate o o				
Security (3)						
Al + Machine Learning (0)	Previous Page 1 V of	1 Next				

Busque Firepower y seleccione Cisco Secure Firewall Threat Defence Virtual - BOYL

2. Pulse Crear para iniciar el proceso de configuración del FTD.

≡ Micr	osoft Azure			∞ Search reso	ources, services, and docs (G+/)	🧐 Copilot
Home > Ma	Home > Marketplace >					
Cisco Systems	ecure Firewall	Threat Defense Virtu	ial – BYOL and PAYG	\$		
strate cisco SECURE	Cisco Secure	Firewall Threat Def	ense Virtual – BYOL	and PAYG 🗢 Add to Fave	orites	
	★ 4.0 (2 ratings)					
	B Microsoft preferred	olution				
	Plan Cisco Secure Firewall Threat Defense V					
• Leve • Integ Cisco Talos Learn more	Leverage Azure Traffic Manager for highly scalable remote access VPN Integrate with Azure Transit VNet for scalable inter-VNet traffic Cisco Talos® Threat Intelligence is included, protecting against known and unknown threats from one of the world's largest commercial threat intelligence teams.					
*Forrester 1 More pro	fotal Economic Impact of ducts from Cisco Syste	Cisco Secure Firewall, 2022. www.cisco 2ms, Inc. <u>See All</u>	o.com/go/firewallTEl			
Μ		-thate cisco	-dualu cisco	alialia cisco		
Cisco M	eraki vMX	Cisco Catalyst 8000V Edge Software (PAYG)	Cisco Catalyst 8000V Edge Software - Solution	Cisco Nexus Dashboard		
Cisco Sys	tems, Inc.	Cisco Systems, Inc.	Cisco Systems, Inc.	Cisco Systems, Inc.		
Azure App	lication	Virtual Machine	Azure Application	Azure Application		
A Cisco Me connect yo your Azure	raki Virtual MX to our Meraki network to deployments	Deploy and manage enterprise-class networking services and VPN technologies for the Azure cloud.	Deploy and manage enterprise-class networking services and VPN technologies for the Azure cloud.	Simplified, centralized data center dashboard makes it easier to manage your hybrid cloud network		

Crear VM desde Azure Portal

 \heartsuit

Starts at \$2.53/hour

Create \lor

Price varies

Create \lor

 \heartsuit

Starts at Free

Create \lor

3. En la página de configuración básica, cree un grupo de recursos para el dispositivo, elija la región y seleccione un nombre para la máquina virtual.

Price varies

Create \lor

 \heartsuit

 \heartsuit

Create Cisco Secure Firewall Threat Defense Virtual – BYOL and PAYG

...

resources and costs. Use resource groups like folders to o	organize and
fw-azure	\sim
reste new	~
A resource group is a container that holds related resources for an Azure solution.	~
Name *	
OK Cancel	~
	~
	resources and costs. Use resource groups like folders to o fw-azure A resource group is a container that holds related resources for an Azure solution. Name * OK Cancel

Review + create

Crear un nuevo grupo de recursos

Cisco FTDv settings

Basics

4. Elija la versión que desee para la implementación de VM entre las opciones disponibles.

Software Version ①	7.4.1-172	\sim
Availability Option * ①	7.4.1-172	
	7.3.1-19	
Username for primary account (not the	7.2.7-500	
FTDv admin user account) * ①	7.1.0-92	
Authentication type * ①	7.0.6-236	
	6.4.0-110	

Versiones disponibles para implementar en el mercado de Azure

5. Configure un nombre de usuario para la cuenta principal, elija Contraseña como tipo de autenticación y establezca la contraseña para el acceso a VM y la contraseña de administrador.

\equiv Microsoft Azure		Q			
Home > Marketplace >					
Create Cisco Secure Fire	ewall Threat Defense Virtual – BYOL and PAY	G			
Basics Cisco FIDv settings Review	w + create				
Project details					
Select the subscription to manage deploy manage all your resources.	ed resources and costs. Use resource groups like folders to organize and				
Subscription * ①	fw-azure 🗸				
Resource group * ①	(New) FDM V				
	Create new				
Instance details					
Region * ①	East US 🗸				
Virtual Mashina anna 🕇 🔘	fdm				
Virtual Machine name * 🕕					
Licensing ①	BYOL : Bring-your-own-license V				
Software Version ①	7.4.1-172 🗸				
Availability Option *	None				
	O Availability Zone				
Username for primary account (not the FTDv admin user account) * ①					
Authentication type *	Password				
Addientication type	SSH Public Key				
Password * ()	· · · · · · · · · · · · · · · · · · ·				
Confirm password *	•••••••				
Admin Password * U	······				
Confirm Admin Password * 🛈	•••••••				
FTDv Management * ①	FDM : Firepower Device Management				

Nombre de usuario y contraseñas de administrador.

6. Para el tipo de gestión, seleccione FDM a efectos de este documento.

FTDv Management * 🕕	FMC : Firepower Management Center	\sim
Enter EMC registration information *	FDM : Firepower Device Management	
	FMC : Firepower Management Center	

Dispositivo de administración.

7. En la pestaña Cisco FTDv Settings, revise el tamaño de la máquina virtual, la cuenta de almacenamiento, la dirección IP pública y la etiqueta DNS, que se crean de forma predeterminada después de completar la configuración básica.

Asegúrese de que la red virtual, la subred de administración y otros parámetros de Ethernet sean correctos.

Home > Marketplace >

Create Cisco Secure Firewall Threat Defense Virtual – BYOL and PAYG

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Basics	Cisco FTDv settings	Review + create	
Virtual m	nachine size * 🕕	1x Standard D3 v2 4 vcpus, 14 GB memory	
Ctores		Change size	0000065
Storage	account * ()	Create New	00000000 V
Public IP	address ①	(new) Create new	-pip V
DNS lab	el ()	c35	2e65c 🗸
			.eastus.cloudapp.azure.com
Attach d	liagnostic interface * 🕕	NoYes	
Virtual n	etwork ①	(New) vnet01 FD Edit virtual network	
Manage	ment subnet * 🕕	(New) subnet1	~
		Edit subnet	172.18.0.0 - 172.18.0.255 (256 addresses)
GigabitE	Ethernet 0/0 subnet * 🕕	(New) subnet2	×
		Edit subnet	172.18.1.0 - 172.18.1.255 (256 addresses)
GigabitE	thernet 0/1 subnet * 🕕	(New) subnet3	~
		Edit subnet	172.18.2.0 - 172.18.2.255 (256 addresses)
Public in ①	bound ports (mgmt. interfa	ce) * None Allow selected ports 	:
1 A N	II traffic from the Internet will letworking page later.	be blocked by default. You will be a	able to change inbound port rules in the VM

Configuración de Cisco FTDv.

8. Seleccione Allow selected Port para habilitar los puertos SSH (22), SFTunnel (8305) y HTTPS (443) para el acceso HTTPS a la VM y al puerto SFTunnel para migrar el dispositivo a FMC.



Puertos permitidos en Cisco FTDv

Verificar configuración para VM

9. Revise la configuración en la pestaña Revisar + Crear y cree la máquina virtual.

Create Cisco Secure Firewall Threat Defense Virtual – BYOL and PAYG

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TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.

Name

Preferred	e-mail	address

Preferred phone number

@cisco.com		
erisco.com		

Basics

Subscription	fw-azure
Resource group	FDM
Region	East US
Virtual Machine name	fdm
Licensing	BYOL : Bring-your-own-license
Software Version	7.4.1-172
Availability Option	None
Username for primary account (not the	
Password	***********
Admin Password	*****
FTDv Management	FDM : Firepower Device Management

Cisco FTDv settings

Virtual machine size	Standard_D3_v2
Storage account	8b089e65
Public IP address	fdm-pip
Domain name label	-fdmc352e65c
Attach diagnostic interface	No
Virtual network	vnet01
Management subnet	subnet1
Address prefix (Management subnet)	172.18.0.0/24
GigabitEthernet 0/0 subnet	subnet2
Address prefix (GigabitEthernet 0/0 su	172.18.1.0/24
GigabitEthernet 0/1 subnet	subnet3
Address prefix (GigabitEthernet 0/1 su	172.18.2.0/24
Public inbound ports (mgmt. interface)	Allow selected ports
Select Inbound Ports (mgmt. interface)	SSH (22), SFTunnel (8305), HTTPS (443)

Revisar y crear.

En este momento podemos enviar la creación de la VM.

10. Supervise el progreso de la implementación en la ficha Descripción general, donde un mensaje indica que la implementación está en curso.

Action Control	r-threat-defense-appliance-	Overview 🖉 …					×
Overview Inputs Outputs Outputs Template	Deployment is in progress Deployment name : cisco.cisco-firepower-threat-defe Subscription Resource group Deployment details	ense-appliance	Start time : 6/11/2024, 11:50:26 AM Correlation ID : codd6c851322				Microsoft Defender for Cloud Secure your apps and infrastructure Go to Microsoft Defender for Cloud >
	Resource			Туре	Status	Operation details	Free Microsoft tutorials Start learning today >
	C fdm			Virtual machine	Created	Operation details	Work with an expert
	Idm 85089e65			Storage account	ок	Operation details	who can help manage your assets on Azure
	International Action of the			Retwork interface	Created	Operation details	and be your first line of support.
	International Action Provide Action Provided Action Provide			Retwork interface	Created	Operation details	rind an Azure expert >
	S Internet Nico			Network interface	Created	Operation details	
	vnet01			 Virtual network 	ок	Operation details	
	© [b009e65			Storage account	ок	Operation details	
	pid-4da66463-6b9b-47e7-93d5-2cbbfa4ed7	10d-partnercenter		1 Deployment	ок	Operation details	
	Idm pip			Public IP address	ок	Operation details	
	subnet2-RouteTable			🔼 Route table	ОК	Operation details	
	subnet3-RouteTable			🔼 Route table	ок	Operation details	
	•Idm -Idm -Data-SecurityGroup			Network security group	ок	Operation details	
	subnet1-RouteTable			🔁 Route table	ОК	Operation details	
	Mgmt-SecurityGroup			Network security group	OK	Operation details	
	Give feedback $$\mathcal{R}$$ Tell us about your experience with deployment						

Implementación en curso.

Comprobar VM implementada en Azure

11. Cuando se cree la máquina virtual, búsquela en la sección Máquinas virtuales para encontrar sus características y la dirección IP pública asignada.

Microsoft Azure			,₽ Search resources, se	rvices, and docs (G+/)				e 🖉 🕺 🖉		0
e Home >										
Virtual machines 🖈 … osecurity										×
+ Create \lor \rightleftarrows Switch to classic \textcircled{O} Reservations \lor	🔘 Manage view 🗸	🕐 Refresh 🞍 Export to CSV	😵 Open query 🕴 🛞 /	Assign tags ▷ Start 🔇	🖓 Restart 🔲 Stop 🗊 Delete	🗉 💷 Services 🤟 🧷 Mainte	enance 🗸			
Filter for any field Subscription equals all	Type equals all	Resource group equals all $ imes$	Location equals all $ imes$	⁺ _♀ Add filter						
Showing 1 to 2 of 2 records.								No grouping	∨ III List view	~
Name 1.	Type ↑↓	Subscription 14	Resource group †4	Location †4	Status ↑↓	Operating system 14	Size ↑↓	Public IP address 114	Disks †4	
-fdm-	Virtual machine	-tw-azure	_FDM_	East US	Running	Linux	Standard_D3_v2	.107	1	

Ubicación de máquinas virtuales

I

12. Utilice un navegador para navegar hasta la dirección IP asignada del dispositivo e iniciar la

configuración inicial de FDM.

«	fdm Virtual machine	\$ \$ ···		×
	₽ Search «	🖋 Connect 🗸 ▷ Start 🦿 Restart 🔲 Stop 🕔 Hilbernate 🐹 Capture 📋 Delete 🖒 Refresh	h 🛄 Open in mobile 🔗 Feedback 🐻 CLI / PS	
	Overview	A foundation		ICON N.
_	Activity log	Ssentials		JSON VIEW
		Resource group (move) : FDM	Operating system : Linux (ciscoftdv)	
	Access control (IAM)	Status : Running	Size : Standa, Copy to dipboard 4 GiB memory)	
	🥏 Tags	Location : East US	Public IP address : 8.107	
	X Diagnose and solve problems	Subscription (move) : <u>-fw-azure</u>	Virtual network/subnet : <u>vnet01/subnet1</u>	
	Connect	Subscription ID : ca20fa3e1482	DNS name : (dm 32e65c.eastus.cloudapp.azure.com	
	connect		Health state : -	
	S Connect		Time control . CHAPDOA DEO DALUTE	
	× Bastion	Taos (edit) : Add taos	Time created : by 11/2024, 500 PM OIC	
	Networking			

IP pública para FDM

Configuración básica de FDM

13. Configure los parámetros básicos seleccionando una IP dentro del rango asignado, configurando NTP y registrando el dispositivo con la licencia.

Aquí puede encontrar la documentación de la configuración inicial de FDM .

← → C	O 🏝 https://	18.107/#/eas	ysetup/step-1				80% 🟠	*
Firewall Device Manager	c .	Device: fdm				(?) admin Administra	or v strate SECURE	
			C Inside National	Cisco Firepower Threat Defense for Aure		Anternet Colorent Markeney Markeney Markeney Smart Loc. Smart Loc. Smart Loc. Smart Loc. Smart Loc.		
				Connect fire The initial access control polic You can edit th	wall to Internet y will enforce the following actions. e policy after setup.			
				Rule 1 Trust Outbound Traffic This rule allows traffic to go from Inside to outside, which is needed for the Smart License configuration.	Default Action Block all other traffic The default action blocks all other traffic.			
				Outside Interface Address Connect GigabitEthernet0/0 (Outside) your cable modem or router. Then, co interface.	to your ISP/WAN device, for example, infigure the addresses for the outside			
				Configure IPv4		~		
				IPv4 Address .1.15				
				Network Mask 255.255.255.0		~		
				Gateway .1.1		0		
				Configure IPv6				
				Off		*		
				IPv6 Address Disabled				
				Prefix Length Disabled				

14. Después de registrar el dispositivo, asegúrese de que no quedan implementaciones pendientes.



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