템플릿을 사용하여 Azure Marketplace에서 FDM VM 배포

목차

<u>소개</u> <u>사전 요구 사항</u> <u>요구 사항</u> 사용되는 구성 요소 구성 Azure 포털의 템플릿에서 FDM 배포 VM에 대한 컨피그레이션 확인 Azure에 배포된 VM 확인 FDM의 기본 구성

소개

이 문서에서는 Azure Marketplace 및 템플릿을 사용하여 가상 컴퓨터에 Cisco Secure Firewall FDM(Threat Defense Virtual)을 배포하는 방법에 대해 설명합니다.

사전 요구 사항

요구 사항

다음 주제에 대한 지식을 보유하고 있으면 유용합니다.

- Cisco FMC(Secure Firewall Management Center)
- Cisco FTD(Secure Firewall Threat Defense)
- Azure 계정/액세스

사용되는 구성 요소

이 문서의 정보는 다음 소프트웨어 버전을 기반으로 합니다.

- Cisco Secure Firewall Threat Defense 가상 버전: 7.4.1, 7.3.1, 7.2.7, 7.1.0, 7.0.6 및 6.4.0

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바 이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우 모든 명령의 잠재적인 영향을 미리 숙지하시기 바랍니다.

구성

Azure에서 가상 컴퓨터에 FDM(Firepower 장치 관리자)을 배포하려고 할 때, 특히 Azure Marketplace 및 템플릿을 사용할 때 고객이 문제가 발생했습니다.

Azure 포털의 템플릿에서 FDM 배포

Azure 포털에서 FDM을 배포하려면 다음 절차를 사용합니다.

1. Azure 포털로 이동하여 Azure 서비스 내에서 마켓플레이스를 찾습니다. Cisco Secure Firewall Threat Defense Virtual - BYOL 및 PAYG를 검색하고 선택합니다.



firepower 검색 및 Cisco Secure Firewall Threat Defense 가상 선택 - BOYL

2. 생성을 눌러 FTD에 대한 구성 프로세스를 시작합니다.

	Microsoft Azure			⊘ Search rese	purces, services, and docs (G+/)	🍫 Copilot	
Home	Home > Marketplace >						
Cisco :	CO Secure Firewall 7 Systems, Inc.	Threat Defense Virtu	ual – BYOL and PAYG	\$2			
-ab cu	Cisco Secure	Firewall Threat Def	ense Virtual – BYOL	and PAYG 🗢 Add to Fav	orites		
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Lear	rn more						
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		Free trial	cisco Cisco Catalust 2000// Edge	diala cisco			

cisco	cisco	cisco
Cisco Catalyst 8000V Edge Software (PAYG)	Cisco Catalyst 8000V Edge Software - Solution	Cisco Nexus Dashboard
Cisco Systems, Inc.	Cisco Systems, Inc.	Cisco Systems, Inc.
Virtual Machine	Azure Application	Azure Application
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
Starts at \$2.53/hour	Price varies	Price varies
Create 🗸 💙	Create 🗸 🗢 🗢	Create 🗸 🗢 🗢
	Cisco Catalyst 8000V Edge Software (PAVG) Cisco Systems, Inc. Virtual Machine Deploy and manage enterprise-class networking services and VPN technologies for the Azure cloud. Starts at \$2:S3/hour Create V	Cisco Catalyst 8000V Edge Software (PAVG) Cisco Catalyst 8000V Edge Software - Solution Cisco Systems, Inc. Cisco Systems, Inc. Vinual Machine Deploy and manage enterprise-class networking services and VPN technologies for the Azure cloud. Starts at 82.53/thour Price varies Create V Create V

Azure 포털에서 VM 만들기

3. [기본 구성] 페이지에서 장치에 대한 리소스 그룹을 생성하고 영역을 선택한 다음 VM의 이름을 선택합니다.

Create Cisco Secure Firewall Threat Defense Virtual – BYOL and PAYG

...

Project details		
Select the subscription to manage de manage all your resources.	ployed resources and costs. Use resource groups like folders to or	ganize and
Subscription * ①	fw-azure	~
Resource group * ①		\sim
	Create new	
Instance details	A resource group is a container that holds	
Region * 🛈	related resources for an Azure solution.	~
Virtual Machine name * 🕕	Name *	
Licensing ①		~
,	OK Cancel	
Software Version 🕕		~

새 리소스 그룹 만들기

Basics

4. 사용 가능한 옵션에서 VM 구축에 필요한 버전을 선택합니다.

Cisco FTDv settings Review + create

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	

Azure 마켓에서 배포할 수 있는 버전

5. 기본 계정에 대한 사용자 이름을 설정하고, 인증 유형으로 비밀번호를 선택하고, VM 액세스를 위 한 비밀번호와 관리자 비밀번호를 설정합니다.

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Home > Marketplace >	
Create Cisco Secure Fire	ewall Threat Defense Virtual – BYOL and PAYO
Basics Cisco FTDv settings Revie	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 * 🕕	fw-azure 🗸
Resource group * ①	(New) FDM V
	Create new
Instance details	
Region * ①	East US 🗸
Virtual Machine name *	fdm
Licensing ①	BYOL : Bring-your-own-license 🗸
Software Version ①	7.4.1-172
Availability Option * ①	None
	O Availability Zone
Username for primary account (not the FTDv admin user account) * ①	
Authentication type * ①	Password
· · · · · · · · · · · · · · · · · · ·	SSH Public Key
Password * ①	······
Confirm password *	······································
Admin Password * 🛈	······
Confirm Admin Password *	·····
FTDv Management * 🕕	FDM : Firepower Device Management

6. 관리 유형의 경우 이 문서의 용도로 FDM을 선택합니다.

FTDv Management * 🕕

 FMC : Firepower Management Center
 \nother

 FDM : Firepower Device Management

 FMC : Firepower Management Center

Enter FMC registration information * 🕕

관리 디바이스.

7. Cisco FTDv Settings(Cisco FTDv 설정) 탭에서 기본 컨피그레이션을 완료한 후 기본적으로 생성 되는 VM 크기, Storage Account(스토리지 계정), Public IP Address(공용 IP 주소) 및 DNS 레이블을 검토합니다.

가상 네트워크, 관리 서브넷 및 기타 이더넷 설정이 올바른지 확인합니다.

Home > Marketplace >

Create Cisco Secure Firewall Threat Defense Virtual – BYOL and PAYG

...

Basics	Cisco FTDv settings	Review + create	
Virtual n	nachine size * 🕕	1x Standard D3 v2 4 vcpus, 14 GB memory Change size	
Storage	account * ①	(new) <mark>8608</mark> Create New	39e65 ~
Public IP	address ①	(new) <mark></mark>	ip 🗸
DNS lab	el ()	 :352e65c	· · · · · · · · · · · · · · · · · · ·
Attach d	liagnostic interface * 🕕	NoYes	
Virtual n	network ①	(New) vnet01 FDM	×
Manage	ment subnet * 🛈	(New) subnet1 Edit subnet	V 172.18.0.0 - 172.18.0.255 (256 addresses)
GigabitE	Ethernet 0/0 subnet * 🕕	(New) subnet2 Edit subnet	V 172.18.1.0 - 172.18.1.255 (256 addresses)
GigabitE	Ethernet 0/1 subnet * 🕕	(New) subnet3 Edit subnet	V 172.18.2.0 - 172.18.2.255 (256 addresses)
Public in	bound ports (mgmt. interfa	ce) * None Allow selected ports 	
	Il traffic from the Internet will	he blocked by default. You will be able to	change inhound port rules in the VM

All traffic from the Internet will be blocked by default. You will be able to change inbound port rules in the VM Networking page later.

Cisco FTDv 설정

8. VM에 대한 HTTPS 액세스를 위해 포트 SSH(22), SFTunnel(8305) 및 HTTPS(443)를 활성화하 고 디바이스를 FMC로 마이그레이션하기 위해 SFTunnel 포트를 활성화하려면 Allow selected Port(선택한 포트 허용)를 선택합니다.

Virtual network (i)	(New) vnet01	M.	\sim	
	Edit virtual network			
Management subnet * 🕕	(New) subnet1		\sim	
	Edit subnet	172	2.18.0.0 - 172.18.0.255 (256 addresses)	
GigabitEthernet 0/0 subnet * 🕕	(New) subnet2		\checkmark	
	Edit subnet	172.18.1.0 - 172.18.1.255 (256 addresse		
GigabitEthernet 0/1 subnet * 🕕	(New) subnet3		\sim	
	Edit subnet	172	2.18.2.0 - 172.18.2.255 (256 addresses)	
Public inbound ports (mgmt. interface) *	None Allow selected ports	;		
Select Inbound Ports (mgmt. interface) *	3 selected		\checkmark	
U	SSH (22) SSH: ssh connectivity	y to the VM.		
Selected ports will be open for access Networking page later.	fr SFTunnel (8305) SFTunnel: [FMC Mar and managed device	nagement]: defa e(s) communica	ault tcp port 8305: management center tion.	
	HTTPS (443) HTTPS: [FDM Manad	aement]: FDM (UI accessibility.	

Cisco FTDv에서 허용할 포트

VM에 대한 컨피그레이션 확인

9. 검토 + 생성 탭에서 구성을 검토하고 VM을 생성합니다.

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)

이 시점에서 VM 생성을 제출할 수 있습니다.

10. 개요 탭에서 배치 진행 상황을 모니터링합니다. 여기서 메시지가 배치 진행 중임을 나타냅니다.

Home >					
cisco.cisco-firepowe Deployment	er-threat-defense-appliance-				×
₽ §earch «	🔋 Delete 🚫 Cancel 👎 Redeploy 🛓 Download 🖒 Refresh				
Overview Inputs Outputs Outputs Template	Deployment is in progress Subscription Resource group Deployment details	Start time : 6/11/2024, 11:5026 AM Correlation ID :	322		Microsoft Defender for Cloud Secure your apps and infrastructure Go to Microsoft Defender for Cloud >
	Resource	Type	Status	Operation details	Start learning today >
	Constant and the second	Virtual machine	Created	Operation details	Work with an expert
	C 100 100 100 100 100 100 100 100 100 10	Storage account	ок	Operation details	who can help manage your assets on Azure
	Idm dom Nic2	Network interface	Created	Operation details	and be your first line of support.
	Idm -Idm -Nict	Network interface	Created	Operation details	Find an Azure expert >
	S MicO	Network interface	Created	Operation details	
	vnet01	+-> Virtual network	ОК	Operation details	
	© 06009e65	Storage account	ок	Operation details	
	pid-4da66463-6b9b-47e7-93d5-2cbbfa4ed70d-partnercenter	Deployment	ок	Operation details	
	Contraction of the second seco	Public IP address	ок	Operation details	
	Subnet2-RouteTable	🐔 Route table	ок	Operation details	
	Subnet3-RouteTable	🐔 Route table	ок	Operation details	
	Obata-SecurityGroup	Network security group	ок	Operation details	
	Subnet1-RouteTable	🐴 Route table	ок	Operation details	
	Mgmt-SecurityGroup	Network security group	ок	Operation details	
	Giue fearthark				
	R Tell us about your experience with deployment				

구축 진행 중.

Azure에 배포된 VM 확인

11. VM이 생성되면 Virtual Machines(가상 머신) 섹션 내에서 해당 특성을 찾고 할당된 공용 IP 주소 를 찾습니다.

Microsoft Azure		,P Search resources, ser	rvices, and docs (G+/)				N 🖉 🛛 🕻		6
e Home >									
Virtual machines 🖈 … osecuty									×
+ Create \lor 22 Switch to classic (5) Reservations \lor 1	🔘 Manage view 🗸 🕐 Refresh 🛓 Export to CS	V 😚 Open query 🕴 🕅 A	ssign tags 🕞 Start 🖓	* Restart 🔲 Stop 🗊 Delete	III Services 🗸 🤌 Maint	nance 🗸			
Filter for any field	Type equals all Resource group equals all $ imes$	Location equals all \times	⁺ _Y Add filter						
Showing 1 to 2 of 2 records.							No grouping	✓ III List view	~
Name 1.	Type ↑↓ Subscription ↑↓	Resource group 14	Location 14	Status ↑↓	Operating system 14	Size ↑↓	Public IP address 14	Disks †4	
🗋 📮 +fdm-	Virtual machine -fw-azure	_FDM_	East US	Running	Linux	Standard_D3_v2	.107	1	

가상 머신 위치

12. 브라우저를 사용하여 디바이스의 할당된 IP 주소로 이동하고 FDM의 초기 컨피그레이션을 시작 합니다.

«	Virtual machine	A &	×
	✓ Search «	🖋 Connect 🗸 ▷ Start 🤇 Restart 🔲 Stop 🕓 Hilbernate 🎉 Capture 👔 Delete 🖒 Refresh 🚺 Open in mobile 🔗 Feedback 🐻 CU / PS	
	Cverview	^ Essentials	JSON View
	 Activity log 	Resource group (moye): FDM. Operating system : Linux (civrofir/v)	
	Access control (IAM)	Status : Running Size : Standai Copy to dipboard 4 GiB memory)	
	🗳 Tags	Location : East US Public IP address : 8.107 D	
	X Diagnose and solve problems	Subscription (move) : <u>stwazure</u> Virtual network/subnet : <u>snet0/subnet1</u>	
	Connect	Subscription ID : ca20fa3e1482 DNS name : Idm i2c65sceastus.cloudaop.azure.com	
	Ø Connect	Health state : -	
	✓ Bastion	Time created : 6/11/2024, 550 PM UTC	
	Networking	uala remn « umorrante	

FDM용 공용 IP

FDM의 기본 구성

13. 할당된 범위 내에서 IP를 선택하고, NTP를 설정하고, 라이센스를 사용하여 디바이스를 등록하 여 기본 설정을 구성합니다.

여기에서 FDM 초기 컨피그레이션에 대한 설명서를 <u>찾을 수 있습니다</u>.

← → C	O 🎗 https://	8.107	7/#/easysetup/step	-1				80% 公	¥ (
Firewall Device Manager	r	Device:					admin Administ	rator ~ thele SECURE	
				Rode Network	Cisco Firepower Threat Definise for Azure (00 6/1 20 6/1 2		Children Chi		
					Connect fire The initial access control polic You can edit th	ewall to Internet sy will enforce the following actions. te 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 modern or router. Then, or interface.	1) to your ISP/WAN device, for example, onligure the addresses for the outside			
					Configure IPv4 Manually input		v		
					IPv4 Address .1.15				
					Network Mask 255.255.255.0		v		
					Gateway .1.1		0		
					Configure IPv6		v		
					IPv6 Address Disabled				
					Prefix Length Disabled				
FDM의 기본 구성	and the second se								

14. 디바이스를 등록한 후 보류 중인 구축이 남아 있지 않은지 확인합니다.



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