## SecIntel on MX 設定ガイド Juniper Networks .K.K 2020年7月31日



Engineering Simplicity



バージョン	更新日	更新内容
1.0	2020/7/31	初版公開



はじめに

本資料にある内容は、資料作成時点におけるものであり、事前の予告なしに内容を変更する場合があります。

本資料は内容の正確さを保つために努めて作成しておりますが、本資料を利用することによって生じた損害について、 当社は一切責任を負わないものとします。

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本資料は下記のソフトウェア/サービスを用いてConnected Securityのセットアップを行っています。

- ESXi 6.0
- space-19.4R1.3.ova
- Security-Director-19.4R1.53.img
  Policy\_Enforcer-19.4R1-975.ova
  Log-Collector-19.4R1.28.ova
  MX240(OS Version 19.4R1.10)









192.168.0.200



# Agenda

- 事前準備 設定
- Security Director設定
- MX設定
- MX確認コマンドー例







#### 事前準備・設定

- 1. Junos Space、Log Collector、Policy Enforcerのデプロイ・各初期設定を行う
- 2. Junos SpaceにSecurity Directorをインストールする
- Device Discovery ProfilesでMXを登録する
   (※MX側でIPアドレス・SNMPの事前設定が必要となります)
- 4. 登録したMXのOSバージョンに合わせたDMIスキーマをインストールする
- 5. Sky ATPアカウントを持っていない場合は下記ポータルサイトでアカウントを作成 <u>https://sky.junipersecurity.net/</u>

-アカウント作成方法は下記URLを参照

https://www.juniper.net/documentation/en\_US/release-independent/sky-atp/topics/task/configuration/sky-atpregistering.html

#### ※本年から Sky ATPはATP Cloudへ名称を変更させて頂きました。 GUI上や各ドキュメント上の表記につきましては、ATP Cloud に随時変更させて頂く予定でございます。 本マニュアルは、変更前の現在のGUI上の表記に合わせてSky ATP の名称で作成しております。



#### Security Director設定



#### Security Director基本設定の流れ

- 1. Log Collectorの設定
- 2. Policy Enforcerの設定
- Secure Fabricの設定
   -Secure Fabric:ネットワークデバイスの集合
- 4. Sky ATPの設定
  - -アカウント作成済みのSky ATP/Realmの指定





<b>S</b>		Administration / Logging Management / Logging Nodes	Q Global ∨ Δ 🛡 S ?
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Ω	Users & Roles	②クリック	<b>+</b> 👜   🗉
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	Logging Devices (		
*	Signature Database		
	License Management	>	
0	Policy Enforcer		
	NSM Migration		
	A Lucy Sync Settings		
L	①クリック		

Add Logging No	ode 💿	
Select Deployment	Add Collector Node	Certificate Details
Log Collector type	Security Director Log Collector Security Director Log Collector Juniper Secure Analytics	▼ ①Security Director Log Collectorを選択
		②クリック
Cancel		Next



Add Logging No O	Add Collector Node	Certificate Details
Add Collector Node Node 1		
Node Name* 💿	LOG-COLLECTOR	
IP Address* ⑦	172.27.113.241	
User Name* 🕜	admin	
Password* ⑦		
		②クリック
Cancel		Back Next







#### Add Logging Node 🛛

Summary	1
---------	---

Review the summary of configuration changes.

Deployment Information	Edit	
Log Collector type	Security Director Log Collector	
Add Collector Node Infor	Edit	
Node Name	LOG-COLLECTOR	
IP Address	172.27.113.241	
User Name	admin	
Click OK to complete.		
		クリック
Cancel		Back OK

*		Ad	Iministration / Logging Manag	gement / Logging Node	2			Q Global		× ♪ ₽ \$ ?
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2	Users & Roles > Logging Management > Logging Nodes	<b>`</b>								Ŵ   I
	Statistics & Troublesh Logging Devices		Node Name	Node Type	Node IPv4	Node IPv6	Status	Application	Version	Last Boot Time
*	Monitor Settings		LOG-COLLECTOR	Security Director L	172.27.113.241	-	UP	GREEN	19.4R1.28	NA
	Signature Database License Management	> >	1 items		確認					



3		Administration / Policy Enforce	/ Settings	Q	Global	✓ △ □ S ?
$\times$	My Profile	Settings 🔊				
Ŋ	Users & Roles Logging Management Monitor Settings Signature Database	Specify the Policy Enfor     IP Address*	rcer virtual machine and login credentials to use for threat prevention.			
	License Management	Username ⑦	Sky ATP/JATP Feed Connector			
	Settings Connectors NSM Migration Policy Sync Settings	<ul> <li>Password*</li> <li>Sky ATP Configuration Ty</li> <li>Configure polling timers to dis</li> </ul>	Note: Once the system is configured with Sky ATP with Policy Enforcer as its Threat Prevention Type, it will not be able to switch to Sky ATP or Cloud feeds only types.			
	Folicy Sync Sectings	Poll Network wide endpoi * Poll Site wide endpoints* ⑦ Policy Enforcer Logs	Cancel OK 5 mins OK Reset Dwmload	7		





*		Administration / Policy Enforcer / S	ettings	۹	Global	× △ ▣ S ? Î
×	My Profile	Settings ©				
	Users & Roles > Logging Management >	i The Policy Enforcer Space AP	l user (pe_user) password is currently valid. It will ex	cpire on 2020-10-06.		
	Monitor Settings	The Policy Enforcer is active				
	Signature Database License Management 🏾 🔉	It is configured with version 1	19.4R1-975.	<u></u>		
*	Policy Enforcer 🛛 🗸	IP Address*	172.27.113.234			
E	Settings Connectors	Username 🕜	里安:ACT root	IVEIこなつたのを確認		
ത	NSM Migration	Password*				
~	Policy Sync Settings	Sky ATP Configuration Ty 🕐	Sky ATP/JATP with Juniper Connected Security	<b>~</b>		
		Configure polling timers to discover h Poll Network wide endpoi* ⑦ Poll Site wide endpoints* ⑦	24 5 OK Reset	<ul> <li>hours</li> <li>mins</li> </ul>		
		Policy Enforcer Logs Downlo	ad			



Create Site @	①サイト名を入力	
Site*	Test-Site	
Description	Write description	
		②クリック
		Cancel OK

*		Devices / Secure Fabric				Q	Global	~		S	?
×	Security Devices	Secure Fabric	0								
() D	Secure Fabric NSX Managers	Sites					Add Enforcer	nent Poin	its 🕂		Ū
	vCenter Servers	Site	Enforcement P IP	Model	Feed Source		Fee	d So	Last Up	De	sc
*		Test-Site	Add Enforceme —		_						
		1 items C									_
0			①クリック								

Add Enforcement Points 💿						
<ul> <li>Assigning a device to the site wi</li> </ul>	ill cause a change in the device configuration.					
Specify the enforcement points to assign to the site. The site cannot contain both switches and connectors.						
Enforcement Points	0 Available	Q :	1 Selected Q			
	Name IP Model		Name IP Model			
			BIG-ZAM 172.27.112.245 MX240			
Parimeter Davice	No available items		①対象のMXを右側のウィンドウへ移動 ②クリック			
Perimeter Device 🕐	× BIG-ZAM					
			Cancel OK			

*		Devices / Secure Fabric				Q	Global	~ ♪ ₽	s ?
×	Security Devices	Secure Fabri	i <b>c</b>						
KI D	Secure Fabric NSX Managers	Sites					Add Enfor	cement Points 🕂	1
	vCenter Servers	Site	Enforcement P IP	Model	Feed Source		F	eed So Last Up.	. Desc
%		Test-Site	BIG-ZAM 172.2	7.112.245 MX240				July 29, 2	
		1 items C							
0			サイトにデバイスが	登録されたのを確認					



\$		Configure / Threat Prevention / Feed Sources			Q Global	~ <i>L</i>	7 🖻 😮 🕹
×	Firewall Policy >	Feed Sources @					
	User Firewall Manage > Application Firewall Po > ①クリック >	Sky ATP JATP Custom Feeds				④クリ	ック
*	NAT Policy 2ク	リック				More 🗸	+ / 0
Ē	Application Policy Bas,	Realm Sites	Devices	Location	Enrollment Status	Token Expiry	Feed Status
÷	Policies Feed Sources	o items C					
	Shared Obje ③クリック Change Management >						
	Guided Setup >						

kyATP Realm Credential	te Global Configuration
	①Sky ATPのアカウント/Realmを入力
Sky ATP realm crede Provide your Sky ATP realm cred	entials
Location*	Asia Pacific 🗸
Username	test@juniper.net
Password	
Realm ⑦	new-shirata
No Sky ATP account? Select you You will be redirected to the Sk	r region using the Location in the menu above, ther <mark>click here t</mark> o create an account. y ATP account page.
×5	ky ATPのアカウント作成がまだの場合は ②クリッ



ATP Realm Credential	Site	Global Configuration
0	the real multiplication a change	an in the device configuration in the second stand devices
Assigning a site to t	ule realiti will cause a chang	ige in the device configuration in the associated devices.
Assigning a site to Site	ule realm will cause a chan	ige in the device computation in the associated devices.
Site Realm: new-shirata	ule realm will cause a chan	ige in the device computation in the associated devices.
Assigning a site to a Site Realm: new-shirata Choose sites to be en	nrolled into the realm.	ige in the device computation in the associated devices.
Assigning a site to the site of Site Choose sites to be ended to be sites to be sites to be sites to be ended to be sites to b	nrolled into the realm.	Site Create new site
Assigning a site to t Site Choose sites to be en Site	nrolled into the realm.	Site Create new site



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SkyATP Realm Credential Site		Global Configuration	
No data available			
Logging Select event types to log for the devices	リック m		
Malware	Enable Logging		
Host Status	Enable Logging		
Proxy Servers ( ②クリ	ック		+ 🗡 🗇
Server IP			<u>③クリッ</u>
No data available			<b>.</b>



8		Configure	/ Threat Prevention	/ Feed Sources				Q Global	~	Δ 🖾 🥵 ?
×	Firewall Policy	Feed	d Source	es @						
0	Environment									
~	User Firewall Manage >	>								
$\square$	Application Firewall Po >	Sky ATP	JATP	Custom Feeds						
	SSL Profiles	>								
(	IPS Policy	>							More	J   + Z @
*	NAT Policy	>								
-	UTM Policy	<b>&gt;</b>	Pealm	Sitos	Devices	Location	Enrollment Status		Food Status	Last Downloaded
	Application Policy Bas		Kealin	51(65	Devices	Location	Linoiment Status	Token Expiry	reeu status	Last Downloaded
0	Threat Prevention	~	new-shirata	Test-Site	BIG-ZAM	North America	SUCCESS	Jul 29, 2021	⊗ок	Jul 29, 2020, 11:3
	Policies	1 items	С			<u> </u>				
	Feed Sources									
	IPSec VPN	>			ž	登録できたことを	を確認			
	Shared Objects	>								
	Change Management	>								
	Guided Setup	>								

### MX設定





#### 1. MXがNetConfを受け入れるようにする









#### 2. SecIntelの設定







#### 3. URL Filteringの設定







#### 4. URL Filter Templateの設定









### MX確認コマンドー例



MX確認コマンドー例

#### • Security-Intelligenceの概要の確認

Category name	:CC
Status	:Enable
Description	:Command and Control data schema
Update interval	:1800s
TTL	:3456000s
Feed name	:cc_ip_data
Version	:20200723.4
Objects number	<b>:</b> 144238
Create time	:2020-07-29 12:44:12 JST
Update time	:2020-07-29 13:06:49 JST
Update status	:Store succeeded
Expired	:No
Options	:N/A

> show services security-intelligence category summary



MX確認コマンド一例

• Security-Intelligenceの更新ステータスの確認

> show services security-intelligence update status

Current action :Checking update interval of category CC. Last update status :Update interval of category CC is not reached. Last connection status:succeeded Last update time :2020-07-29 13:22:04 JST



#### MX確認コマンド一例

• Policy Enforcerから受信した脅威レベルごとのフィルター数及びフィルターの保存場所の確認

> show services web-filter secintel-policy-status summary profile Profile_Name									
URL Filtering Profile : C&C DB File : Policy State: DB File Change DB File Load T C&C Prefix Cou	SecIntel Policy Stat Profile_Name /var/db/url-filterd/ Ready Time : Wed Jul 29 1 ime : Wed Jul 29 1 nt : IPv4: 144238	us: urlf_si_cc_db. 2:28:18 2020 2:28:19 2020 IPv6: 0	txt*1						
Filters:									
Threat level	Action	v4 Term Count	IPv4	v6 Term Count	IPv6				
1	ACCEPT	192	57595	0	0				
2	ACCEPT	26	7597	0	0				
3	ACCEPT	4	1044	0	0				
4	ACCEPT	4	1082	0	0				
5	ACCEPT	5	1254	0	0				
6	ACCEPT	170	50913	0	0				
7	ACCEPT	5	1370	0	0				
8	ACCEPT	5	1498	0	0				
9	ACCEPT	4	971	0	0				
10	ACCEPT	4	1119	0	0				

\*1 Secure Fabric上でSky ATPにサイトを登録すると、Sky ATPからC&C DBファイルをPolicy EnforcerへプッシュされMXがそれを取得する

# Thank you

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