Generating ServiceNow Incidents with Forcepoint ONE



forcepoint.com

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Overview

While Forcepoint ONE has impressive logging and analysis capabilities, it is often necessary to make use of external tools such as Security Information and Event Management (SIEM) external logging systems and Ticket Management Systems (TMS). This guide covers the latter case, in which we will use Proxy and API events and/or alert conditions detected by Forcepoint ONE to create incident cases within ServiceNow, a very popular cloud-based TMS.

Methodology

Generally, there are two methods by which Forcepoint ONE can provide event data to external systems:

- 1. By pulling logs via our REST API log export capabilities
- 2. By sending emails to external systems, using the Forcepoint ONE Group Email Notification feature, which can be applied to Proxy and API policies within Forcepoint ONE

In either case, the result will be that Proxy/API events detected by Forcepoint ONE will generate new incidents within ServiceNow. A discussion follows on both methodologies, but this guide will focus on the email method as an example.

REST API Log Export

The first method results in a fully externalized solution, as we are just providing raw logs to an authenticated external host that pulls them via API. ServiceNow can support this capability directly in its support of "Outbound REST Web Service." ServiceNow would periodically poll our API (by incrementally adjusting the "startdate" query parameter and inclusion of the "nextpagetoken") and parse any resulting responses into new incidents.

The benefit of using this method is in its responsiveness, as the email-based systems may incur transportrelated delays, as well as the fact that log information is delivered in JSON or CSV format, which may be easier for ServiceNow to parse than an email body.

Email

In the second method, Forcepoint ONE sends emails to ServiceNow using either ServiceNow's Flow Manager > Inbound Email Flows or System Policy > Email > Inbound Actions to process received emails and parse them into new incidents. The Forcepoint ONE administrator would need to:

- Create a local user within a Forcepoint ONE supported tenant domain, and define its email address to that of the ServiceNow provided email address
- Add that user to a group defined on Forcepoint ONE
- Create a Group Email Notification with the information needed by a new ServiceNow incident and add the appropriate group to it
- Apply the Group Email Notification to Proxy or API policy actions within Forcepoint ONE applications

Specifications

In this example, we will be configuring a ServiceNow developer account to receive Group Notification emails and parse them using **System Policy** > **Email** > **Inbound Actions** to create new incident tickets within ServiceNow.

ServiceNow Configuration

The steps involved for the ServiceNow configuration are as follows:

- 1. Set the ServiceNow SMTP service to active (it is not active by default)
 - a) Go to All and in the search box type "Email Accounts"



- b) Click New
- c) Check the Active checkbox
- d) Copy the "from" email address as this is the email address Forcepoint ONE will send group notifications to

	Vorkspaces Admin	Email Account - ServiceNow SMTP	Q Search	-
				0 +
Name	ServiceNow SMTP	Email user label	IT Service Desk	
Туре	SMTP ~	User name	dev100518	
Authentication	None v	From	dev100518@servicenowdeveloper.com	
* Server	relay	Connection Security	None ~	
Active		Port	25	
ServiceNow Configured		System Address Filter	٩	
Enable temporarily to log the raw data exch invaluable for diagnosing issues related to r	nanged with the email server. The logs will be available receiving or sending email.	in the node logs and can be		
Enable Debug Logging				
Update Delete				

2. Configure ServiceNow to parse inbound email messages from Forcepoint ONE to create new incident tickets; go to **All** in the search box and type "Inbound Actions" and create a new action



- a) Give it a Name this example uses "Create Incident Forcepoint ONE Policy"
- b) Set the Target table to "Incident (Incident)"
- c) Check the Active checkbox
- d) Configure the **Conditions** to match emails sent by Forcepoint ONE this example uses the email "Subject" and matches if it is a "Proxy DLP Incident"
 - Note this email subject must match the Global Notification subject field configured in Forcepoint ONE

< = Inbound Email Ac New record	actions			Ø	101 010
Int	bound email actions specify how ServiceN bound action are met, the script is run. Mo	creates or updates task records in a table when the instance receives an email. The inbound email a $\frac{nfo}{2}$	action looks for a watermark in the email to associate it with a specific task. If the conditions specified in the		
	Name Target table Action type	rcepoint ONE Policy cident [incident] cord Action	Application Global		
W	Then to run Actions Description				
On	nly emails of the selected Type will trigger	s inbound action. Only emails f	rom senders with the Required roles will trigger this inbound action.		
	Туре	w v	Required roles		
Or	rder determines when to run relative to ot	inbound actions. The inbound action with the lowest order runs first. Only emails fi	rom this sender will trigger this inbound action.		
	Execution Order	100	From		
All	Il of the following conditions must be true,	rigger this inbound action.			
	Conditions	dd Filter Condition Add "OR" Clause bject •) contains •) Proxy DLP Incident ANI	D OR X		
Sut	ıbmit				

Received emails matching this inbound action policy will create a new ServiceNow Incident ticket.

Forcepoint ONE Configuration

Note that this section will use the author's trial Tenant "fp-se.com" within examples and illustrations. The steps involved in the Forcepoint ONE configuration are as follows:

- 1. Go to IAM > Users and Groups and create a new local User for use by the ServiceNow email address
 - a) In this example, the User "servicenow@fp-se.com" was created to support the "dev100518@servicenowdevelopers.com" email address

Username	servicenow@fp-se.com		
First Name	Service		
Last Name	now		
Manager	Manager		
Email	dev100518@servicenowdevelope		
Secondary Email 📀	Secondary Email Address		
NetBios Domain	NetBios Domain		
SAMAccountName	SAMAccountName		
mS-DS-ConsistencyGuid	mS-DS-ConsistencyGuid		
User Principal Name	User Principal Name		
objectGUID 😧	objectGUID		

- 2. Add a new group and add the new user to this group. This new group will be used when creating Group Notification
 - a) In this example, the group "ServiceNow" was created and the "servicenow@curveballnetworks.com" user was added to it

Name							
embers Admin Role 🛛 None	\$						
Domain fp-se.com	\$						
Nonmembers Search				Members Search			
Domain Users (15) A	Туре		→	Members (2) A	Туре	Domain	
Barbara Jones	User	0		Service now	Local User	fp-se.com	۰
Bob Dole	Local User	0		Stephanos Guidey	Sys Admin	fp-se.com	•

- 3. Go to Protect > Notifications > Group Emails and press New Group Email
 - a) Add a Notification Name. In this example "Proxy DLP Incident" is used
 - b) Under Mail to Groups, add the new group you previously created. In this example it's "ServiceNow"
 - c) Add a value for From Name. In this example "Forcepoint ONE Admin" is used

- d) Configure the Email Subject to match the value that the ServiceNow System All > Inbound Actions rule you create will match on for creating a new incident ticket. In this example the value is "Policy DLP Incident"
- e) Configure an appropriate Email Body. In this example we use the following:

Forcepoint ONE has detected a proxy DLP violation, with the following details:

Transaction ID: [TRANSACTION_ID]

Timestamp: [TIMESTAMP]

Username: [EMAIL_ADDRESS] ([FIRST_NAME] [LAST_NAME])

Location: [LOCATION]

IP Address: [IP_ADDRESS]

Application: [APPLICATION]

File Name: [FILE_NAME]

Direction: [DIRECTION]

 Note that this body makes use of variables provided by Forcepoint ONE and can be adjusted to suit ServiceNow parsing rules

Edit Group Email		
STIFICATION NAME *		
Proxy DLP INcident		
AIL TO GROUPS *		
ServiceNow 💿		x ~
OM NAME *	REPLY-TO EMAIL	
orcepoint ONE Admin	noreply@bitglass.com	
MAIL SUBJECT*		
Proxy DLP Incident		
Forcepoint ONE has detected a proxy DLP violation, with the following det Transaction ID : [TRANSACTION_ID] Timestamp : [TIMESTAMP] Username : [EMAIL_ADDRESS] ([FIRST_NAME] [LAST_NAME])	ails:	
375/5000		
nsert Message Personalization: Policy Type 🔹 💿		
		CANCEL SAVE

Go to Protect > Policies and add the new Group Email Notification to application policies as needed
 a) For Proxy policies the Group Email Notification is added to the policy action:

Data Dattama	Files	Files		Download Notificat	Download Notifications
Jata Patterns	Action	Watermark	Noury	с	User Email DLP-Malware Warning
Malware-CrowdStrike	4 - Block 🜲	1 - None 🔹		•	Group Email Proxy DLP INcident 💠
Deny Download on Scan Timeou	t				Inline Notification None \$
Upload DLP 1	Files		N-44		Upload Notifications
Jata Patterns	Action	Watermark	Notity	•	User Email DLP-Malware Warning +
PCI Credit-Card Digits	\$ 3 - Block \$	1 - None 🜲		•	Group Email Proxy DLP INcident 💠
PII SSN Digits	\$ 3 - Block \$	1 - None 🜲		•	Inline Notification File Blocked
Decrypt Structured Data					Forcepoint Alert 🗹 Generate Alert

At this point DLP events detected by Forcepoint ONE will issue a Group Email Notification email to the ServiceNow email address, which will in turn be processed by ServiceNow to create new Incident tickets.

Solution At Work

To verify the solution, generate a DLP event that will trigger a Group Email Notification from Forcepoint ONE. Check the log at **Analyze** > **Logs** > **Proxy/API** to ensure the event generated a notification.

		Analyze / Logs	s / Proxy			
NALYZE		24 3011 2023	Mac OS X 10.15.7	Transaction	Details 13 of 100	
Dashboard	>	24 Jun 2023	Stephanos Guidey	Email	demo2@fp-se.net	
Alerts	64	21:17:02	Mac OS X 10.15.7	User Group	System Administrator, Bitglass Admins, Demo2 Only	
Discovery	>	24 Jun 2023 21:16:56	Stephanos Guidey Mac OS X 10.15.7	Device	Mac OS X 10.15.7	
CSPM		24 Jun 2023	Stephanos Guidey	Device	-	
SSPM		21:16:56	Mac OS X 10.15.7	GUID		
Connectors		24 Jun 2023	Stephanos Gui	App	OneDrive	
Tunnels		21:16:56	Mac OS X 10.15.	Арр		
Devices	>	24 Jun 2023 21:16:55	Stephanos Guidey Mac OS X 10.15.7	Instance Name		
ogs	>	24 Jun 2023	Stephanos Guidey	IP Address	72.39.86.197	
Proxy		21:16:54	Mac OS X 10.15.7	Location	Milton	
API		24 Jun 2023 21:16:54	Stephanos Guidey Mac OS X 10.15.7	Activity	Cloudstorage, Uploaded	
Web		24 Jun 2023	Stephanos Guidev	Action	Alert , Denied , DLP Notify	
Web DLP		21:16:53	Mac OS X 10.15.7	1		

In ServiceNow, the received email will appear in **System Mailboxes** > **Inbound** > **Received**. Select the email and look at the Email Log tab near the bottom of the page.



It will indicate that the "Create Incident – Forcepoint ONE Policy" rule was processed and it created a new incident. In SerivceNow go to "Incident." You will find a new incident created here.



Please note that the screenshot provided below might differ from the current interface, as they are based on a previous version of ServiceNow.

	▼ A	a		
Š,	Q	\equiv Number	≡ Opened ▼	\equiv Short description
	(j)	INC0010007	2021-09-27 07:52:12	Proxy DLP Incident
	(i)	INC0010005	2021-09-27 07:52:11	Proxy DLP Incident
	i	INC0010003	2021-09-27 07:52:09	Proxy DLP Incident
	(j)	INC0010001	2021-09-27 07:52:06	Proxy DLP Incident

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