

Automating Response to Phishing with Cortex XSOAR

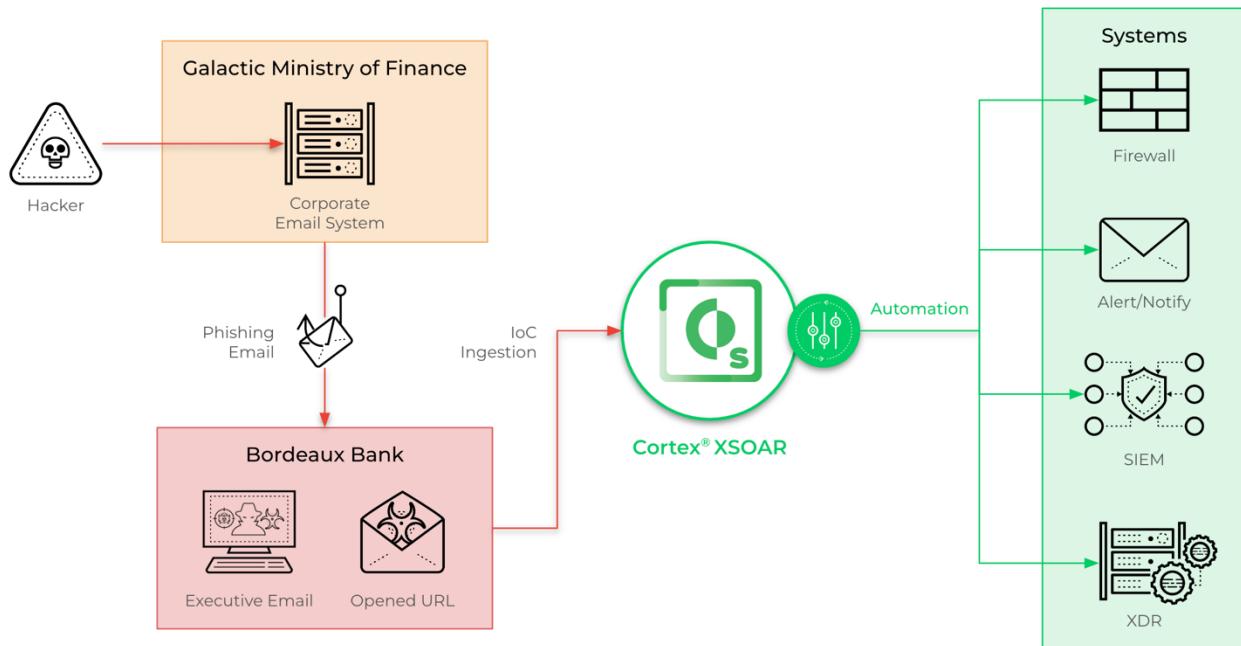
Lab Overview

This lab was designed to help me understand how to use Cortex XSOAR (XSOAR) to automate incident response to phishing attacks. The scenario involves a spear-phishing campaign targeting a fictional bank, the Galactic Ministry of Finance, followed by phishing emails sent to executives at Bordeaux Bank. The lab was hosted in partnership with Google Cloud and provided access to a Cortex XSOAR threat intelligence management instance.

Learning Objectives

By the end of this lab, I learned how to:

- Investigate incidents using Cortex XSOAR
- Understand Cortex XSOAR War Rooms
- Create an incident response plan using Cortex XSOAR



Setup and Requirements

Prerequisites

- Access to a standard internet browser (Chrome recommended)
- Use of an Incognito or private browser window to avoid conflicts with personal accounts
- Ensured I had uninterrupted time to complete the lab

Starting the Lab

1. **Access the Lab Environment:**
 - Clicked the "Start Lab" button
 - Selected a payment method if required
 - Opened the Google Cloud console (right-clicked and selected "Open Link in Incognito Window" when using Chrome)
2. **Sign In to the Google Cloud Console:**
 - Used the temporary credentials from the Lab Details pane
 - Clicked "Use Another Account" if prompted
 - Pasted the provided username and password
 - Accepted the terms and conditions
 - Skipped adding recovery options or two-factor authentication
 - Did not sign up for any free trials
3. **Access Cortex XSOAR:**
 - Used the provided URL and credentials to access the XSOAR console
 - Waited several minutes for the console to become fully accessible

Task 1: Introduction to XSOAR & Phishing

Understanding Phishing

- **Definition:** I learned that phishing is a type of social engineering attack primarily executed through email. Attackers craft fraudulent messages that mimic legitimate communication to deceive recipients.
- **Current Limitations:** I discovered that responding to phishing emails manually is time-consuming and error-prone, often requiring multiple tools and steps.
- **XSOAR's Solution:** I learned that Cortex XSOAR addresses these challenges through automation and orchestration, improving speed, accuracy, and consistency in phishing response workflows.

Task 2: Investigating Incidents

Step 1: Generate a Phishing Incident

1. **Access Cortex XSOAR:**
 - Logged in using the provided URL and credentials
 - Navigated to the **Incidents** section
 - Set the *Created* range to "All times"
 - Clicked **New Incident**
 - Set the *workshop scenario* to **Phishing Campaign** and *Type* to **Scenario**

- Clicked **Create New Incident**

Step 2: Investigate the Phishing Incident

1. Filter Incidents:

- Used the search filter: `playbook:"Email Phishing"`
- Selected the most recent incident to review details
- Reviewed the incident's status, case info, timeline, notes, and evidence
- Clicked the **Investigation** tab to analyze email content, indicators, and incident files

The screenshot displays the XSOAR interface with two main tabs: **Case info** and **Incidents**.

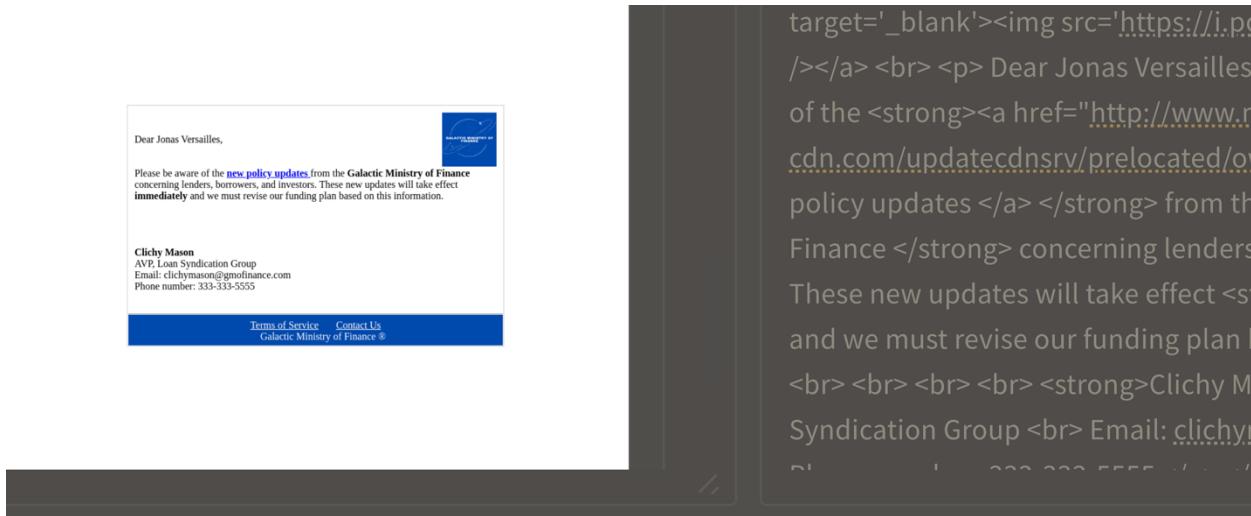
Case info (Top Panel):

- Case Details:**
 - Type: Phishing Campaign
 - Severity: High
 - Owner: admin
 - Phase: 2. Investigate
- Notes (1):**
 - DBot, July 28, 2025 4:12 PM
 - Task Result #127: Update progress
 - Command: `!Print value="Indicato..." (Scripts)`
 - Indicators are being extracted. Please check the **Evidence** for indicators.
- Work Plan (0):** There are no tasks that require your attention.
- Evidence (0):** This incident does not contain evidence.

Incidents (Bottom Panel):

- Search Bar:** Created All times `playbook:"Email Phishing"`
- Table View:** Shows a single incident entry:

ID	Name	Type	Severity	Status	Owner	Playbook	Occurred
#187	Possible Phishing - Jonas.Versailles@bordeauxbank.com	Phishing Campaign	High	Active	admin	Email Phishing	July 28, 2025 4:11 PM



Indicators (13) 				Indicators 
Type	Value	Verdict	First Seen	
Domain	gmofinance.com	Benign	June 30, 2021 12:24 PM	N/A
Domain	www.msoffice-cdn.com	Benign	July 14, 2021 1:52 PM	N/A
Domain	postimages.org	Benign	June 30, 2021 12:36 PM	N/A
IPv6	2002:a05:620a:108f:0:0:0:0	Unknown	June 23, 2021 1:50 PM	N/A

Indicators (13) 				Indicators 
Type	Value	Verdict	First Seen	
URL	http://www.msoffice-cdn.com/updatecdnsrv/prelocated/owa/auth/template.rtf	Suspicious	July 14, 2021 1:52 PM	N/A
URL	https://postimages.org/	Unknown	January 11, 2023 9:08 AM	N/A
Email	Jonas.Versailles@bordeauxbank.com	Unknown	June 30, 2021 12:24 PM	N/A
Domain	i.postimg.cc	Benign	June 30, 2021 12:36 PM	N/A

Task 3: War Room & Work Plan

Step 1: War Room

1. **Navigate to the War Room:**
 - o Clicked the **War Room** tab
 - o Scrolled through event logs tied to the incident
 - o Clicked **Complete in Task Pane** → **Open in Work Plan**

Step 2: Work Plan

1. **Review and Complete Work Plan Tasks:**
 - o Reviewed actions taken in response to the incident
 - o Marked key tasks as completed:
 - Assign and involve appropriate personnel
 - Assess severity
 - Are the hostnames in the URLs being misrepresented?
 - o Explored additional tasks to dig deeper into the incident response process

★ #187 Possible Phishing - Jonas.Versailles@bordeauxbank.com - War Room

Actions ... Search in Incidents ?

Case info Investigation War Room Work Plan ... Evidence Board Related Incidents Canvas

No filter selected Clear all Add to Saved filters

Field	Value
Incident Name	Possible Phishing - Jonas.Versailles@bordeauxbank.com
Occurred	2025-07-28 21:11:30.413818441 +0000 UTC
Owner	admin
Type	Phishing Campaign
Severity	High
Playbook	Email Phishing
Phase	
Detection SLA	Status: idle
Endpoint	[{}]
Time to Assignment	Status: idle
Triage SLA	Status: idle
Containment SLA	Status: idle
Similar incidents Dbot	[{}]
URL SSL Verification	[]
File Relationships	[{}], [{}], [{}]
Remediation SLA	Status: idle

Open Team pane by pressing 'options' ...

DBot Evidence

Artifact Viewer

Search... Q

Export to CSV

Label Type	Value
Email	Jonas.Versailles@bordeauxbank.com
Email/from	clichymason@gmofinance.com
Email/to	Jonas.Versailles@bordeauxbank.com
Email/format	multipart/alternative
Brand	mail-listener
Instance	mail-listener_phishing
Email/html	<p>Please be aware of the new policy updates from the Galactic Ministry of Finance concerning lenders, borrowers, and investors. These new updates will take effect immediately and we must revise our funding plan based on</p>
Email/subject	CRITICAL! New Galactic Ministry of Finance lenders, borrowers, and investors policy updates.

Q

Export to CSV

Label Type	Value
Email/headers	Delivered-To: Jonas.Versailles@bordeauxbank.com
Received: by 2002:a05:620a:108f:0:0:0 with SMTP id g15csp10667557qkk;	
Email/headers/Delivered-To	Jonas.Versailles@bordeauxbank.com
Email/headers/X-Received	by 2002:ac5:c30b: with SMTP id j11mr2201922vkk.46.1551307053353; Mon, 06 Sep 2020 06:00:35Z
Email/headers/To	Jonas.Versailles@bordeauxbank.com
Email/headers/Subject	CRITICAL! New Galactic Ministry of Finance lenders, borrowers, and investors policy updates.
Email/headers/Content-type	multipart/alternative;
Email/headers/From	Galactic Ministry of Finance clichymason@gmofinance.com
Email/headers>Date	Mon, 06 Sep 2020 06:00:35Z
severity	high
brand	mail-listener
instance	mail-listener_phishing
Email/headers/Delivered-To	Jonas.Versailles@bordeauxbank.com
Email/headers/X-Received	by 2002:ac5:c30b: with SMTP id j11mr2201922vkk.46.1551307053353; Mon, 06 Sep 2020 06:00:35Z
Email/headers/To	Jonas.Versailles@bordeauxbank.com
Email/headers/Subject	CRITICAL! New Galactic Ministry of Finance lenders, borrowers, and investors policy updates.
Email/headers/Content-type	multipart/alternative;
Email/headers/From	Galactic Ministry of Finance clichymason@gmofinance.com
Email/headers>Date	Mon, 06 Sep 2020 06:00:35Z
severity	high
brand	mail-listener
instance	mail-listener_phishing
randomUser	<pre>{"user_id": "1002", "department": "Corporate Banking and Capital Markets", "manager": "Corporate Banking and Capital Markets, EVP", "title": "Corporate Banking and Capital Markets, Executive Vice President", "based_in": "Boston,MA", "computer_name": "Versailles-DT98660", "email_address": "Jonas.Versailles@bordeauxbank.com", "external_ip": "100.231.114.51", "first_name": "Jonas", "internal_ip": "172.16.94.221", "last_name": "Versailles", "mac_address": "00:00:02:04:F5:C2", "username": "jonas_versailles"}</pre>

★ #187 Possible Phishing - Jonas.Versailles@bordeauxbank.com - War Room

Actions ⚙️ Search in Incidents ?

Case info Investigation War Room Work Plan 📈 Evidence Board Related Incidents Canvas

No filter selected Clear all Add to Saved filters

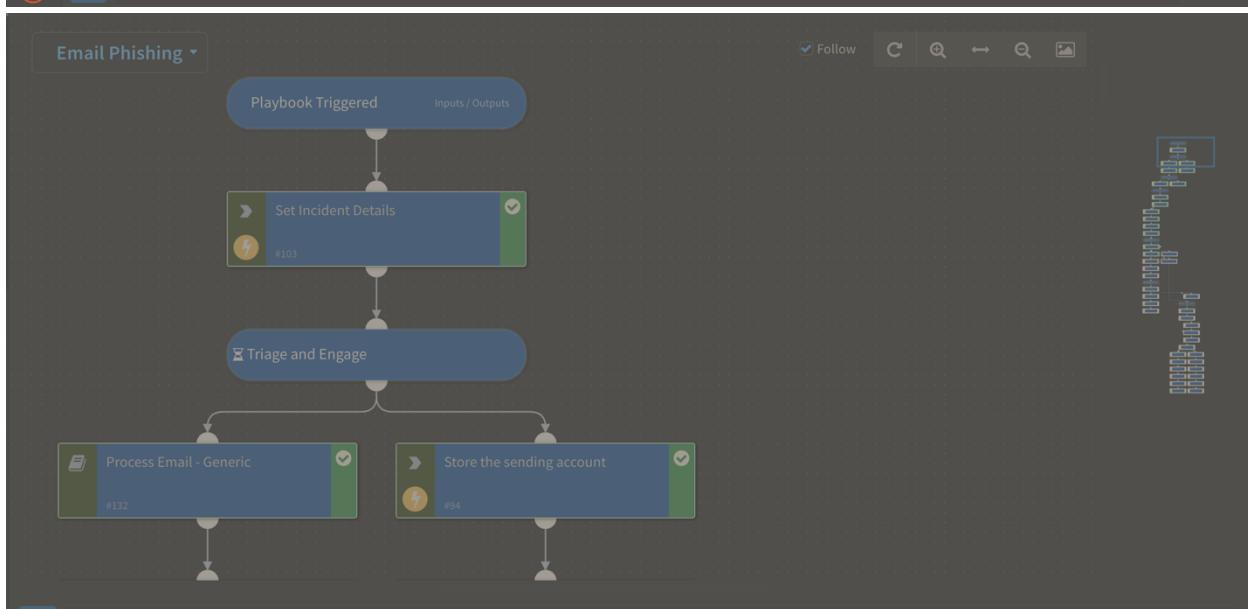
July 28, 2025 4:14 PM
#30: Check sender domain distance
Command: `!CheckSenderDomainDistance domain="paloaltonetworks.com" sender="postman@rosneft....` (Scripts)
no

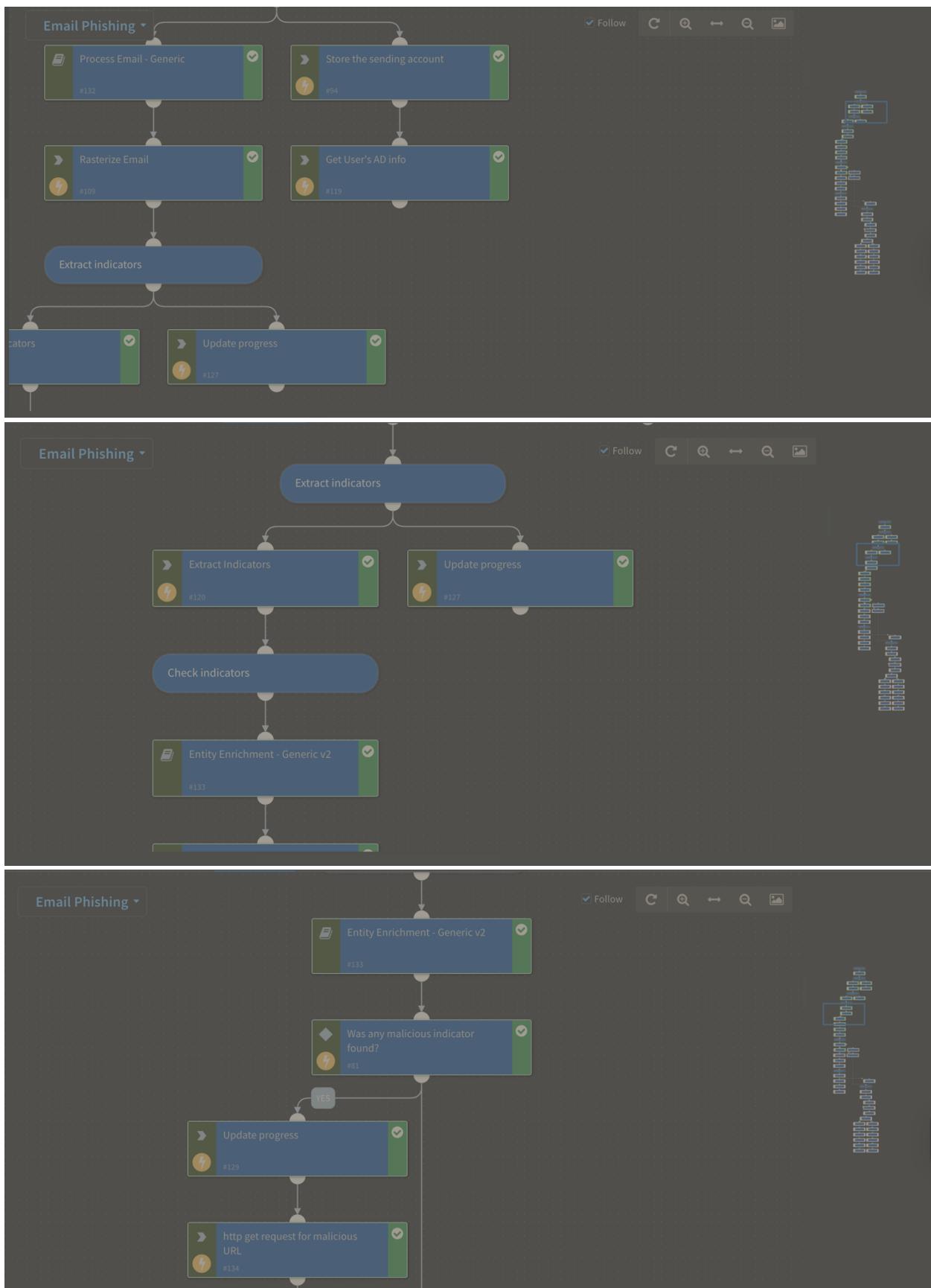
July 28, 2025 4:14 PM
Task Started #89: Is the distance really small
!Exists value="null"

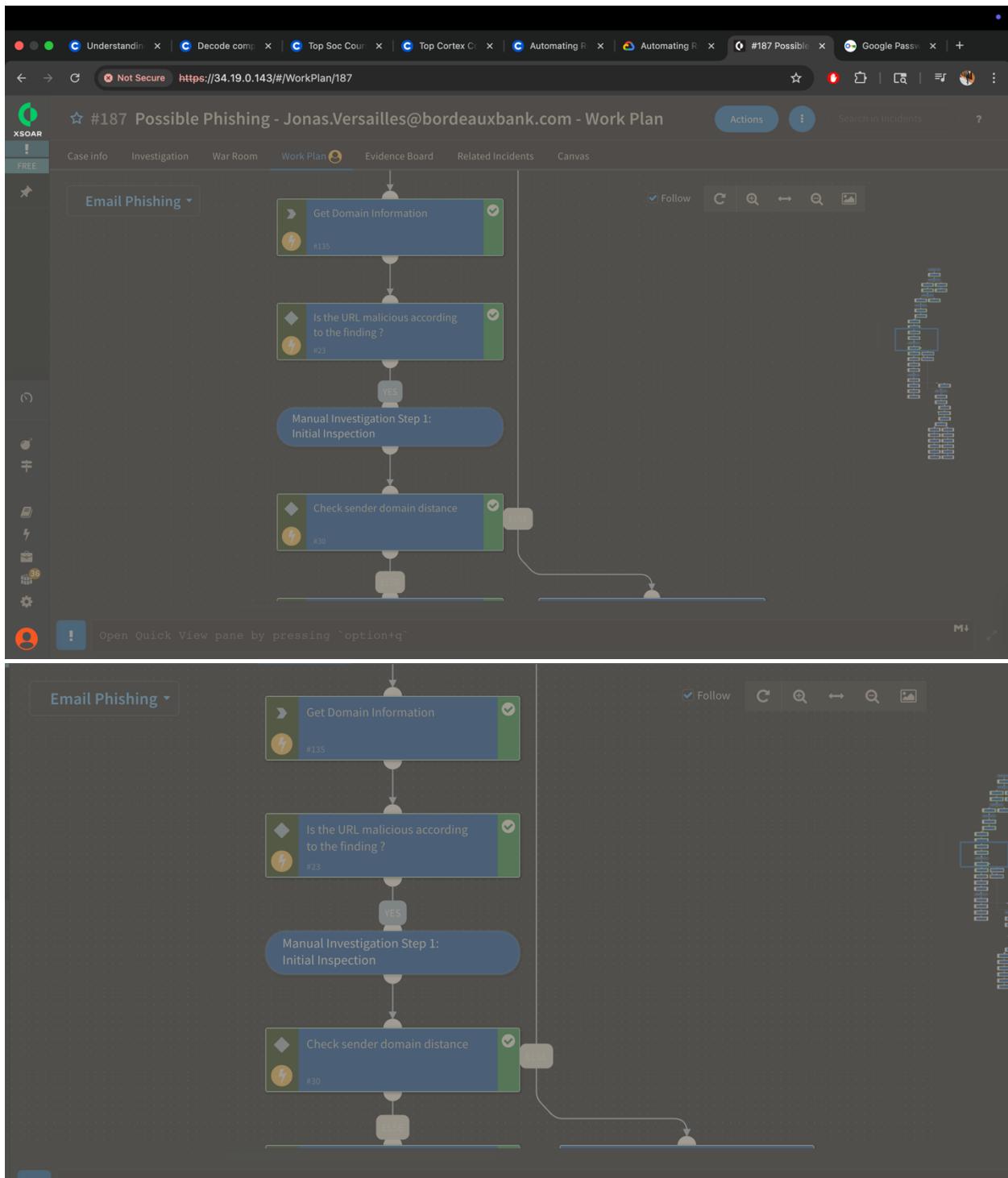
July 28, 2025 4:14 PM
Task Result #89: Is the distance really small Go to Task
Command: `!Exists` (Scripts) C O V
no

DBot July 28, 2025 4:14 PM
Execution paused, waiting for manual input #31: Manually inspect the email for anything suspicious

Navigate to Evidence Board view by using `option+4`





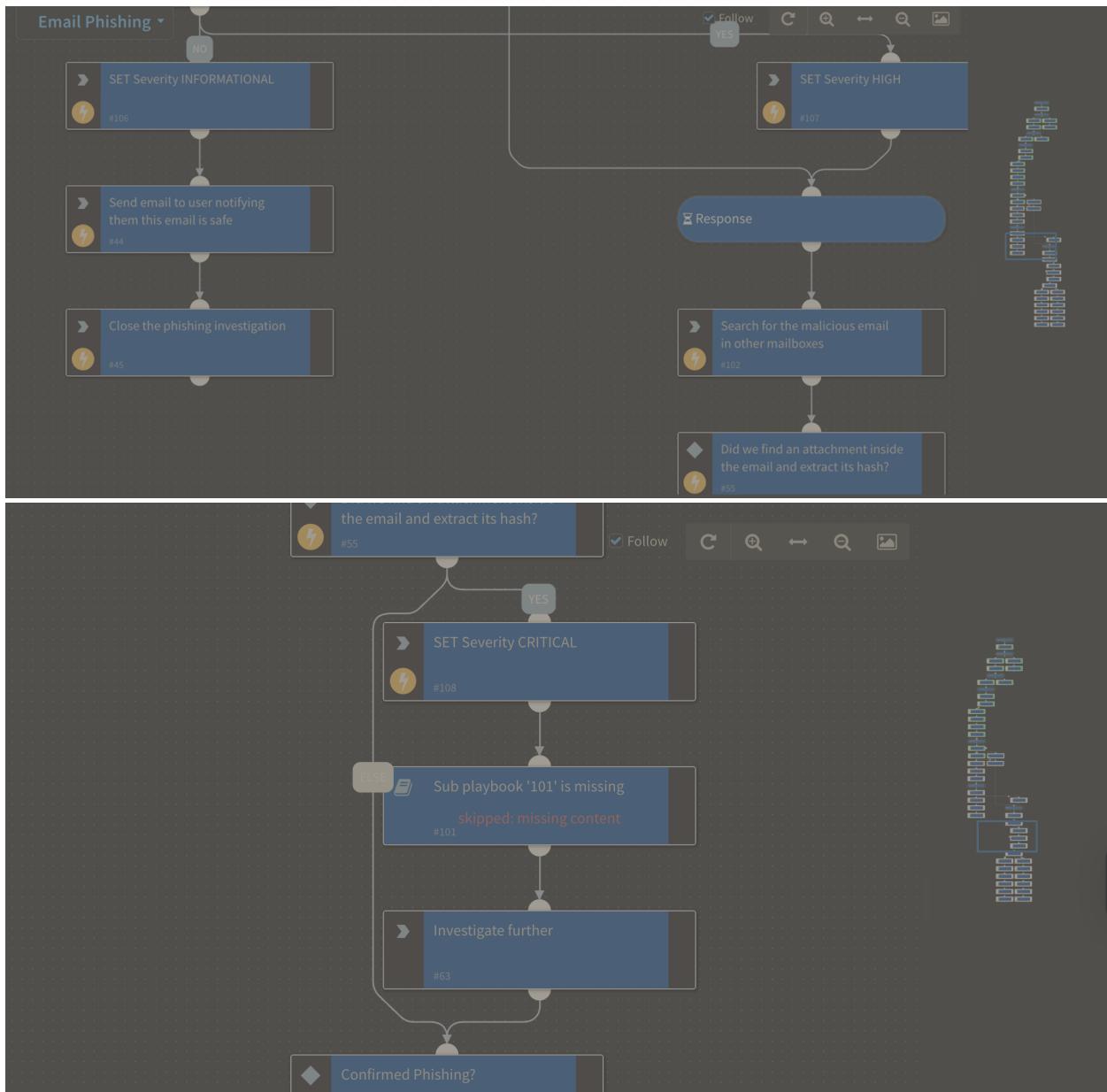


Indicators (13) [Q](#)

Indicators [⚙](#)

Type	Value	Verdict	First Seen	
IP	172.16.94.221	Benign	June 23, 2021 1:52 PM	N/A
Domain	bordeauxbank.com	Benign	June 30, 2021 12:24 PM	N/A
URL	https://i.postimg.cc/d1Y2SddB/GMOF.png	Unknown	January 11, 2023 9:08 AM	N/A
IP	100.231.114.51	Benign	June 23, 2021 1:52 PM	N/A







★ #187 Possible Phishing - Jonas.Versailles@bordeauxbank.com - War Room

Case info Investigation War Room Work Plan (1) Evidence Board Related Incidents Canvas

No filter selected Clear all Add to Saved filters

July 28, 2025 4:14 PM

#30: Check sender domain distance

Command: !CheckSenderDomainDistance domain="paloal..." (Scripts)

no

July 28, 2025 4:14 PM

Task Started #89: Is the distance really small

!Exists value="null"

July 28, 2025 4:14 PM

Task Result #89: Is the distance really small

Command: !Exists (Scripts)

no

DBot

Execution paused, waiting for manual input

#31: Manually inspect the email for anything suspicious

Type ! or / to get started

Actions Search in Incidents ?

Incident Tasks

Playbook Tasks (1) To-Do Tasks (0) My Tasks Only

Email Phishing

Waiting for action

#31 Manually inspect the email for anything suspic...

Hide description Since automatic triage did not find anything wrong, please inspect it manually and see if something stands out.

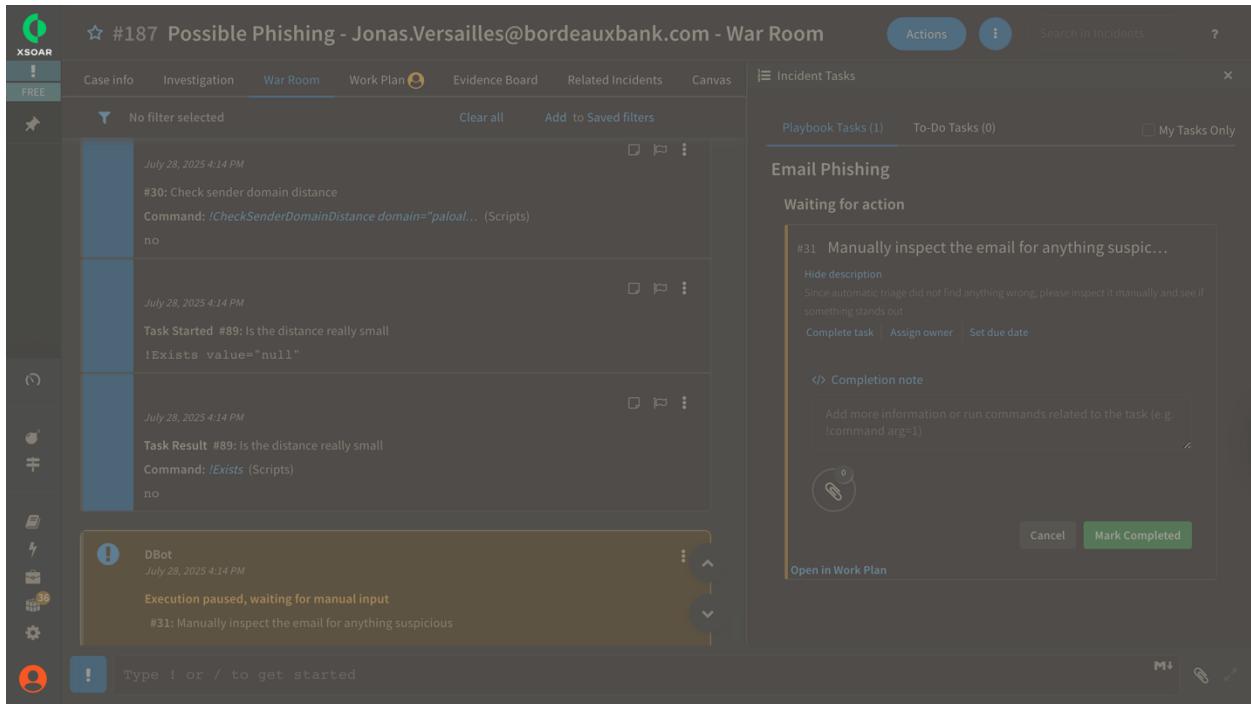
Complete task Assign owner Set due date

Completion note

Add more information or run commands related to the task (e.g. !command arg=1)

Cancel Mark Completed

Open in Work Plan



★ #187 Possible Phishing - Jonas.Versailles@bordeauxbank.com - Work Plan

Case info Investigation War Room (1) Work Plan (1) Evidence Board Related Incidents Canvas

Task details

Hide description See if the URL text versus the hostname shown are different by hovering over the link. Also carefully inspected the URL for spelling spoofing which is typically a sign of phishing email.

Complete Task

No Yes

Completion note

Add more information or run commands related to the task (e.g. !command arg=1)

Mark Completed

Add comment John Set due date

Results (0) Comments (0) Errors (0) Input Results (0) Duration

There are no results for this task

Type `:` to use Emojis

Actions Search in Incidents ?

Incident Tasks

Playbook Tasks (1) To-Do Tasks (0) My Tasks Only

Email Phishing

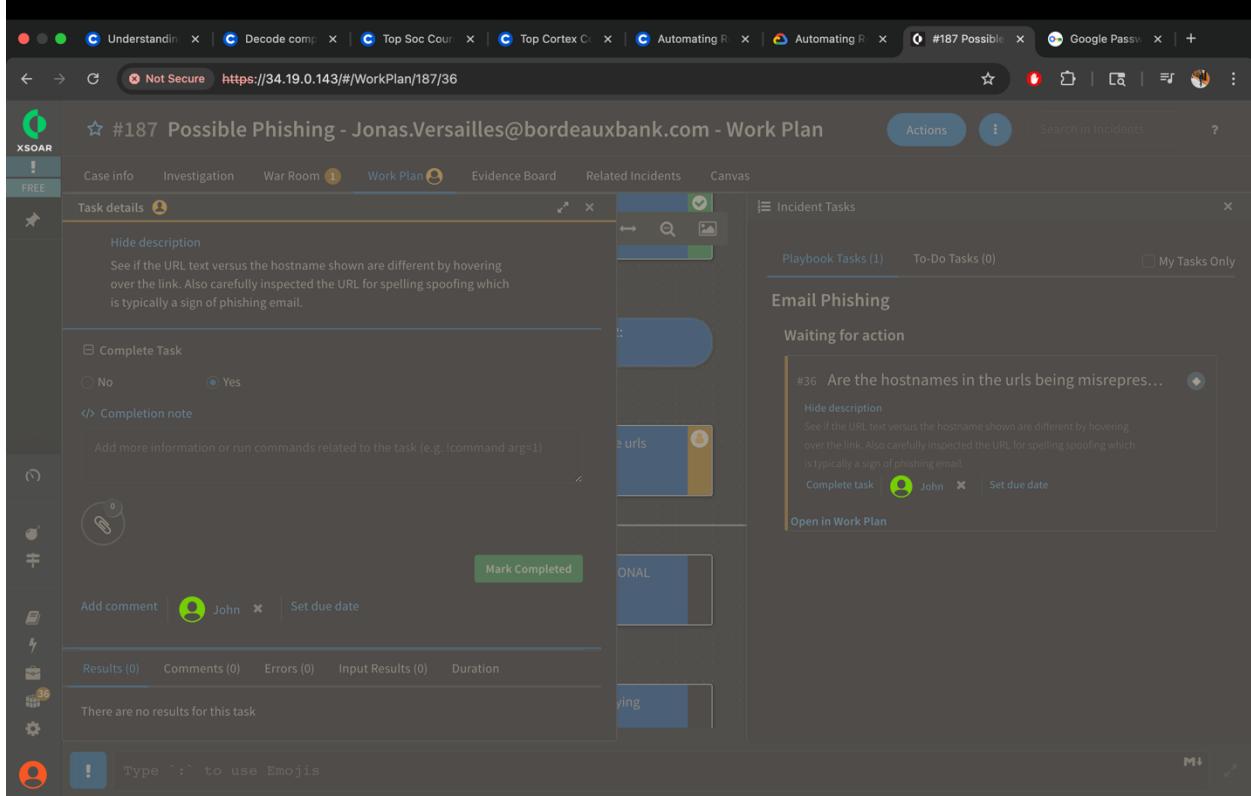
Waiting for action

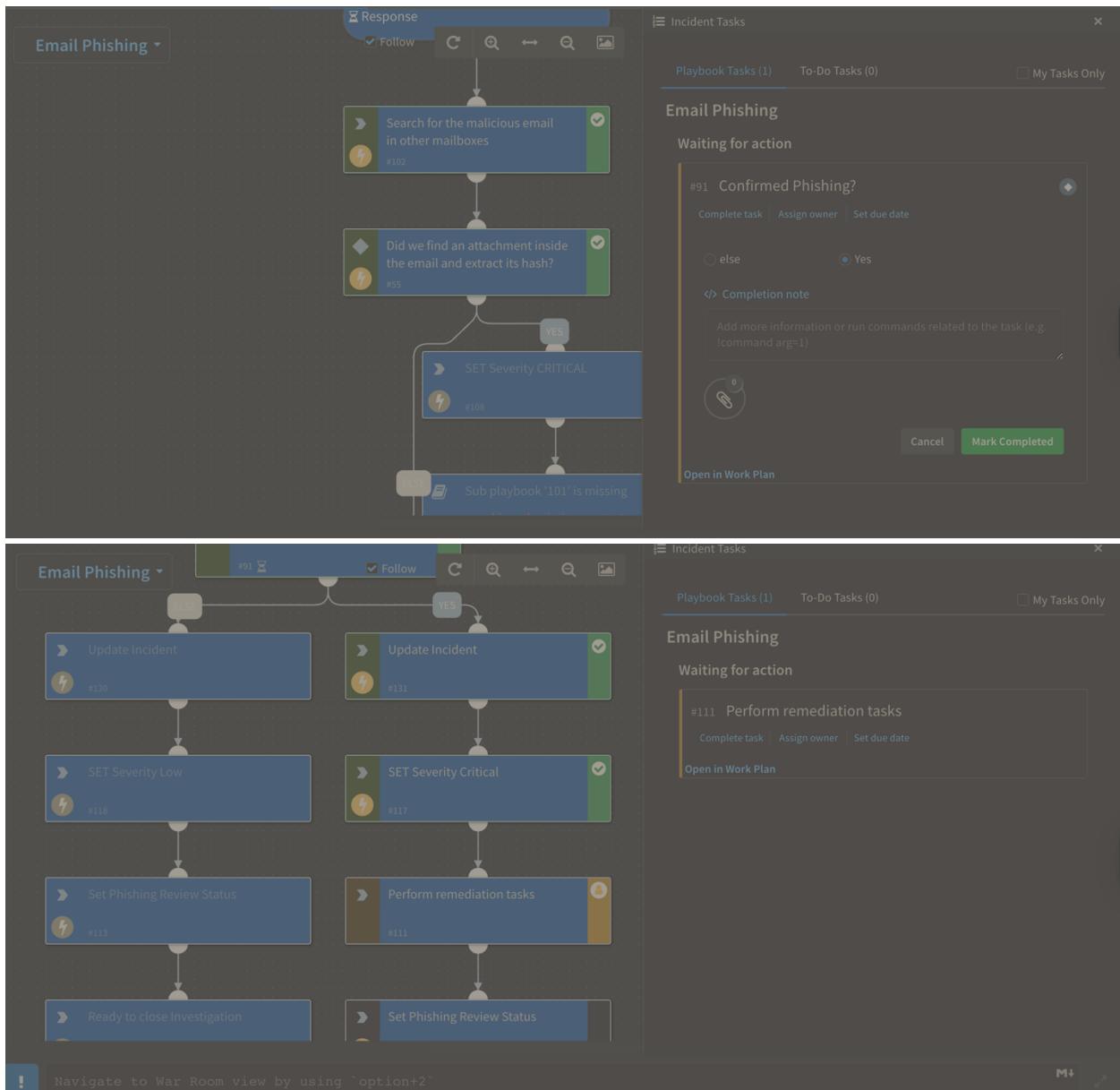
#36 Are the hostnames in the urls being misrepres...

Hide description See if the URL text versus the hostname shown are different by hovering over the link. Also carefully inspected the URL for spelling spoofing which is typically a sign of phishing email.

Complete task John Set due date

Open in Work Plan



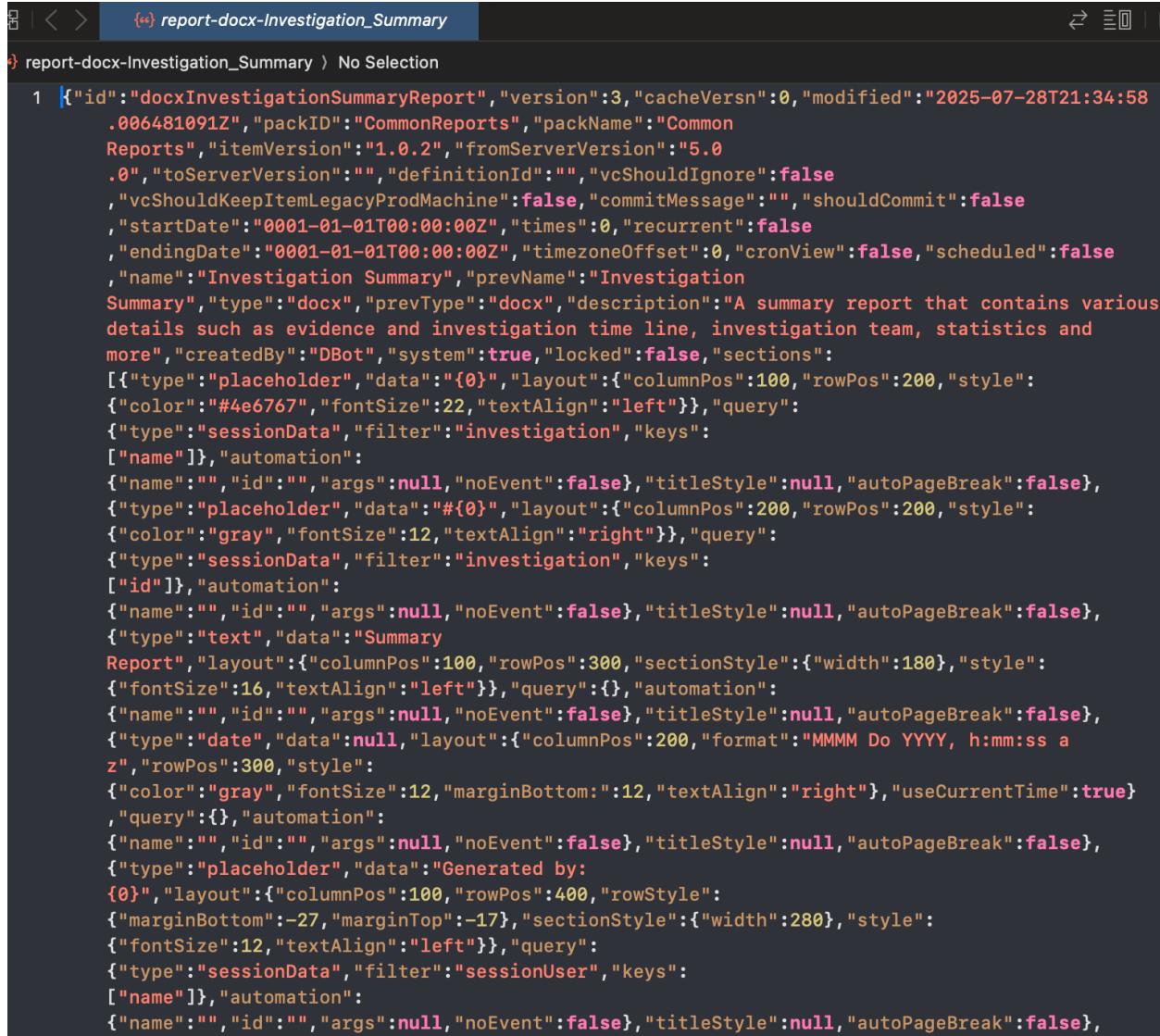


The image shows two screenshots of the XSOAR platform. The top screenshot displays the 'Email Phishing' workflow in the 'Work Plan' tab. It consists of four parallel tasks: 'Confirm close' (IDs #125 and #124), which then lead to 'Close Investigation' (IDs #126 and #112). The bottom screenshot shows the 'Work Plan' tab for investigation #187. It details a task named '#112 Close Investigation' with automation 'closeInvestigation (Builtin)'. A task result from DBot on July 28, 2025, at 4:27 PM, shows the command: /closeInvestigation closeNotes="Dee... (Builtin)". The investigation is marked as 'CLOSED' with a large blue diagonal banner. The 'Incident Tasks' sidebar shows 'Playbook Tasks (1)' and 'To-Do Tasks (0)'. A message on the right says 'You're awesome! All your tasks are done' with a crown icon.

Step 3: (Optional) Generate a Report

1. Create and Download the Report:

- Went to **Case Info** → **Actions** → **Report**
- Set the “Select a tab to generate report from” option to **Case Info**
- Clicked **Generate Report**
- Downloaded the file from the **Reports** tab



The screenshot shows a code editor with a JSON file named 'report-docx-Investigation_Summary'. The JSON code describes a 'docxInvestigationSummaryReport' with various properties like version, cacheVersn, modified date, and sections. It includes placeholder data for 'Summary Report' and 'Generated by' sections, and session data for 'sessionUser'.

```
1 {"id": "docxInvestigationSummaryReport", "version": 3, "cacheVersn": 0, "modified": "2025-07-28T21:34:58 .006481091Z", "packID": "CommonReports", "packName": "Common Reports", "itemVersion": "1.0.2", "fromServerVersion": "5.0 .0", "toServerVersion": "", "definitionId": "", "vcShouldIgnore": false, "vcShouldKeepItemLegacyProdMachine": false, "commitMessage": "", "shouldCommit": false, "startDate": "0001-01-01T00:00:00Z", "times": 0, "recurrent": false, "endingDate": "0001-01-01T00:00:00Z", "timezoneOffset": 0, "cronView": false, "scheduled": false, "name": "Investigation Summary", "prevName": "Investigation Summary", "type": "docx", "prevType": "docx", "description": "A summary report that contains various details such as evidence and investigation time line, investigation team, statistics and more", "createdBy": "DBot", "system": true, "locked": false, "sections": [{"type": "placeholder", "data": "\u0000", "layout": {"columnPos": 100, "rowPos": 200, "style": {"color": "#4e6767", "fontSize": 22, "textAlign": "left"}}, "query": {"type": "sessionData", "filter": "investigation", "keys": ["name"]}, "automation": {"name": "", "id": "", "args": null, "noEvent": false}, "titleStyle": null, "autoPageBreak": false}, {"type": "placeholder", "data": "\u0000", "layout": {"columnPos": 200, "rowPos": 200, "style": {"color": "gray", "fontSize": 12, "textAlign": "right"}}, "query": {"type": "sessionData", "filter": "investigation", "keys": ["id"]}, "automation": {"name": "", "id": "", "args": null, "noEvent": false}, "titleStyle": null, "autoPageBreak": false}, {"type": "text", "data": "Summary Report", "layout": {"columnPos": 100, "rowPos": 300, "sectionStyle": {"width": 180}, "style": {"fontSize": 16, "textAlign": "left"}}, "query": {}, "automation": {"name": "", "id": "", "args": null, "noEvent": false}, "titleStyle": null, "autoPageBreak": false}, {"type": "date", "data": null, "layout": {"columnPos": 200, "format": "MMMM Do YYYY, h:mm:ss a z", "rowPos": 300, "style": {"color": "gray", "fontSize": 12, "marginBottom": 12, "textAlign": "right"}, "useCurrentTime": true}, "query": {}, "automation": {"name": "", "id": "", "args": null, "noEvent": false}, "titleStyle": null, "autoPageBreak": false}, {"type": "placeholder", "data": "Generated by: \u0000", "layout": {"columnPos": 100, "rowPos": 400, "style": {"marginBottom": -27, "marginTop": -17}, "sectionStyle": {"width": 280}}, "query": {"type": "sessionData", "filter": "sessionUser", "keys": ["name"]}, "automation": {"name": "", "id": "", "args": null, "noEvent": false}, "titleStyle": null, "autoPageBreak": false}], "query": {}, "automation": {}}
```

Conclusion

In this lab, I learned how to use Cortex XSOAR to respond to phishing incidents, generate investigative reports, and work with the War Room, Work Plan, and automated playbooks. To continue learning, I explored additional resources like Cortex XSOAR Community Edition and Threat Intel Management.

For any technical issues with the lab, I contacted google-tech@paloaltonetworks.com.