



Log Analysis Using SIEM (Splunk Enterprise)

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Course : CICA

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1. Introduction

In today's digital environment, organizations face a wide range of cyber threats that require continuous monitoring and rapid response. Security Operations Centers (SOCs) rely on Security Information and Event Management (SIEM) platforms to collect, analyze, and correlate logs from multiple systems in order to detect malicious activity.

This project focuses on log analysis using Splunk Enterprise, a widely used SIEM platform. The objective of this project is to analyze logs from different sources, identify anomalies, and investigate security incidents in a simulated environment. The project demonstrates how SOC analysts use SIEM tools to detect brute-force attacks, privilege escalation, persistence mechanisms, and web-based attacks.

2. Objectives of the Project

The objectives of this project are:

- To understand the role of SIEM in security monitoring and incident investigation
- To install and configure Splunk Enterprise
- To analyze logs from Windows, Linux, and Web systems
- To detect malicious activity using Splunk search queries
- To understand the importance of log correlation and normalisation
- To gain hands-on experience in SOC-style investigations

3. Procedure for Installing Splunk Enterprise

3.1 System Requirements

- Operating System: Windows / Linux
- RAM: Minimum 4 GB (8 GB recommended)
- Disk Space: Minimum 10 GB free space
- Browser: Chrome or Firefox
- Internet connection

3.2 Downloading Splunk Enterprise

1. Open a web browser and visit the official Splunk website
2. Navigate to Products → Splunk Enterprise
3. Click on Free Trial
4. Create a Splunk account or log in
5. Download the installer suitable for your operating system

3.3 Installing Splunk Enterprise on Windows

1. Open the downloaded .msi file
2. Accept the license agreement
3. Choose the default installation directory
4. Set the Splunk administrator username and password
5. Click Install
6. Wait for the installation to complete

3.4 Installing Splunk Enterprise on Linux

1. Open the terminal
2. Extract the downloaded package:
3. `tar -xvzf splunk-<version>-Linux-x86_64.tgz`
4. Move Splunk to the /opt directory:
5. `sudo mv splunk /opt/`
6. Start Splunk:

7. `sudo /opt/splunk/bin/splunk start`
8. Accept the license and create admin credentials

3.5 Accessing Splunk Web

- Open a browser and go to:
- `http://localhost:8000`
- Log in using admin credentials

3.6 Verifying Installation

Run the following query in the Search app:

```
index=_internal
```

If results appear, Splunk Enterprise is installed successfully.

4. Overview of SIEM and Its Benefits

4.1 Centralisation

SIEM platforms centralize logs from multiple systems such as servers, endpoints, network devices, and applications into a single platform. This allows analysts to investigate incidents without switching between tools.

4.2 Correlation

Correlation is the process of linking events from different log sources to identify relationships between activities. It helps analysts reconstruct attack timelines and understand attacker behavior.

4.3 Normalisation

Normalisation converts logs from different formats into a common structure, making analysis and searching easier across multiple data sources.

Screenshots

Installing Splunk Enterprise

The screenshot shows the Splunk website's 'Explore free trials and downloads' section. The header includes the Splunk logo (a Cisco company), navigation links for Platform, Security, Observability, Industries, Resources, and Pricing, and a 'Trials & Downloads' button. The main banner features a woman thinking, surrounded by icons for Platform, Security, and Observability. Below the banner, there are three tabs: Platform, Security, and Observability. The 'Platform' tab is selected, showing three cards: 'Splunk Cloud Platform', 'Splunk Enterprise', and 'Universal Forwarder'. Each card has a description, a 'Start download' link, and a 'View product information' or 'Learn more' link.

splunk > a Cisco company

Platform Security Observability Industries Resources Pricing

Support Log In **Trials & Downloads**

Explore free trials and downloads

Get hands-on with free trials and downloads across Splunk's platform, security, and observability solutions.

Platform Security Observability

Splunk Cloud Platform

Experience the power of the Splunk Platform in a Splunk-hosted cloud environment. Ingest up to 5GB of your own data per day for 14 days.

[Start download >](#)

[View product information >](#)

Splunk Enterprise

Try Splunk Enterprise on your own hardware or cloud instance to collect, analyze, and visualize your data. Index up to 500MB per day for 60 days.

[Start download >](#)

[View product information >](#)

Universal Forwarder

Explore reliable, secure data collection from remote sources and forward that data into Splunk software for indexing and consolidation.

[Start download >](#)


[Learn more >](#)

Choosing Enterprise Version for Download.

FREE TRIAL

Splunk Enterprise 10.2.0

Try Splunk Enterprise free for 60 days. No credit card required.




The screenshot displays the 'Employee Device Security' dashboard. It features a top section with four metrics: 'Employee Office Devices' (984), 'Contingent Office Devices' (492), 'Employee Remote Devices' (1,476), and 'Contingent Remote Devices' (861). Below these is a world map with colored bubbles representing device locations. A 'Security Training Completion' bar chart shows 100% completion. A 'Total Devices' counter shows 13,653. The bottom section includes 'Remote Workers and Security Incidents', 'Security Incidents', 'Office Devices', 'Remote Devices', and 'Device Connections'.

Start your free download

Already have a Splunk account? [Log In](#)

Register an account in Splunk portal .




splunk
a CISCO company

Log into your Splunk account

Forgot your [password](#) or [username](#)?

Need to [sign up](#) for a Splunk account?



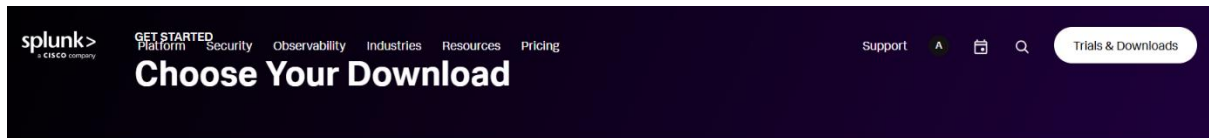
State of Observability 2025

State of Oily

See how observability leaders are setting themselves apart from their peers, and seeing a 2.67x return

[Get the report](#)


Using the Registered Account to Login.





Splunk Enterprise 10.2.0

Index 500 MB/Day. Sign up and download now. After 60 days you can convert to a perpetual free license or purchase a Splunk Enterprise license to continue using the expanded functionality designed for enterprise-scale deployments.

Choose Your Installation Package

 Windows

 Linux

 Mac OS

64-bit

Windows Server 2016, 2019, 2022, 2025

.msi

1041.6 MB

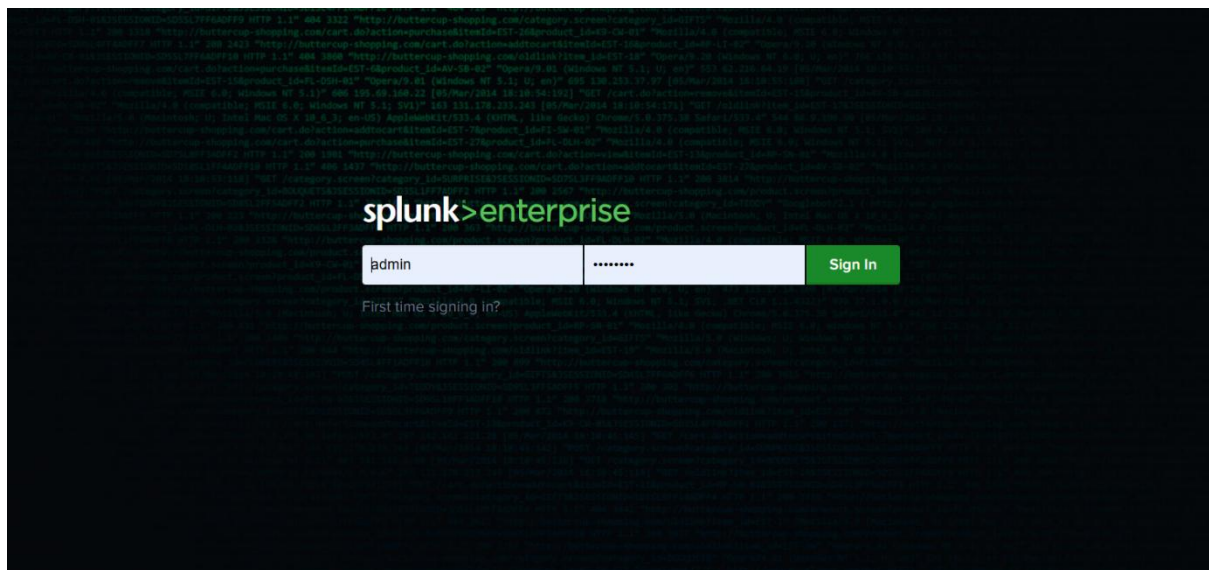
Download Now

Copy wget link

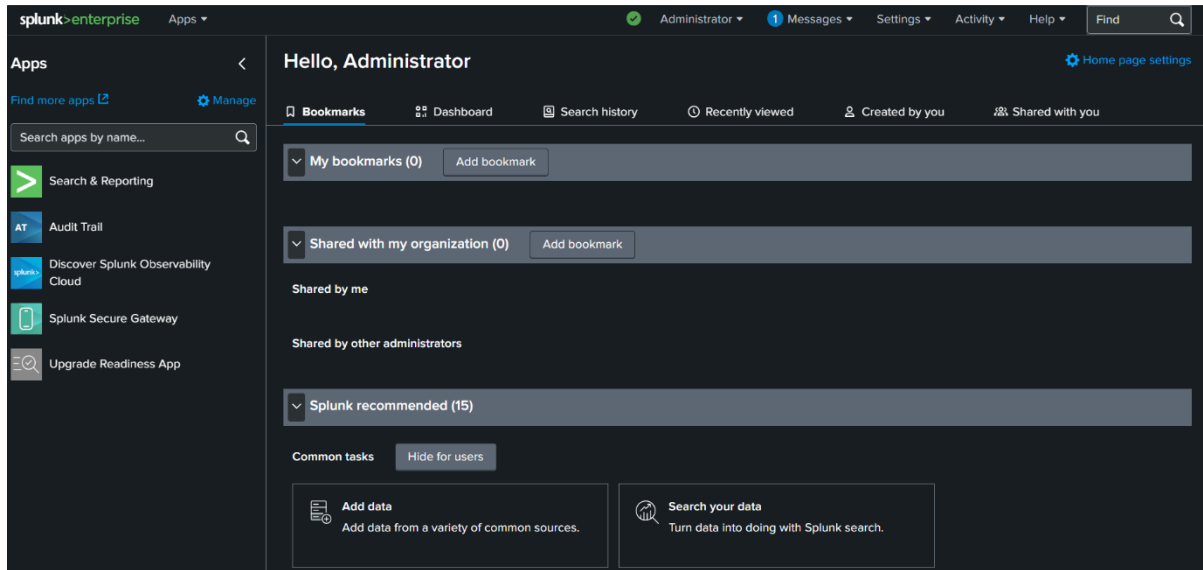
More

[Release Notes](#) | [System Requirements](#) | [Previous Releases](#) | [All Other Downloads](#)

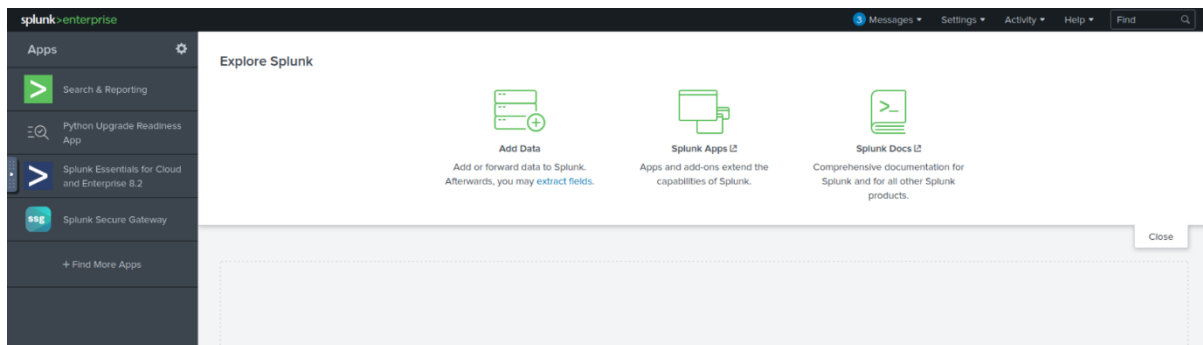
Downloading the Splunk Enterprise according to the OS (Windows / Linux).



Splunk Enterprise web login interface after successful installation and configuration. Login using the created Credentials : username – admin , password – admin123.



Splunk Enterprise interface showing the Search & Reporting application used for SIEM-based log analysis.



Ingesting log data to Splunk Enterprise Platform.

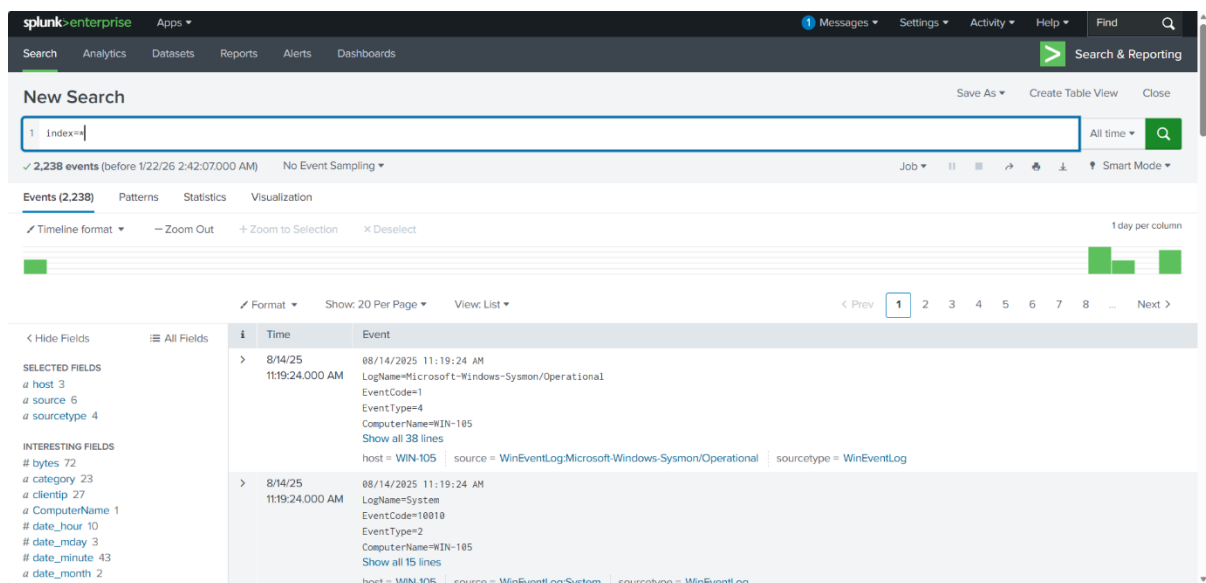
5. Log Sources Overview

SIEM platforms collect logs from various sources across an organization. The major log categories used in this project include:

- Host-based logs
- Network-based logs
- Web application logs

Each log source contributes valuable information during investigations.

Screenshot



Overview of multiple log sources ingested into Splunk SIEM, including host-based, network-based, and web application logs.

6. Windows Log Analysis

6.1 Windows Log Sources

Windows investigations primarily use:

- Sysmon logs – detailed process and network activity
- Windows Event Logs – authentication, account changes, and system activity

6.2 Findings from Windows Logs

The investigation identified:

- Suspicious process execution using masquerading
- Abnormal outbound network connections
- Malicious file execution verified using hash analysis
- Persistence via scheduled task creation

Key Findings:

- Malicious process: SharePoInt.exe
- External IP address: 10.10.114.80
- MD5 hash: 770D14FFA142F09730B415506249E7D1
- Persistence mechanism: Scheduled task “Office365 Install”

splunk>enterpriseApps

1 MessagesSettingsActivityHelpFind

SearchAnalyticsDatasetsReportsAlertsDashboards

Search & Reporting

New Search

Save AsCreate Table ViewClose

1 Index=task4 EventCode=3 DestinationPort=5678
2 | table ProcessID , Image , DestinationIP

All time

1 event (before 1/21/26 8:04:56.000 PM)No Event SamplingJobPauseRefreshDownloadSmart Mode

EventsPatternsStatistics (1)Visualization

Show: 20 Per PageFormatPreview: On

ProcessIDImageDestinationIP

C:\Windows\Temp\SharePoInt.exe

splunk>enterpriseApps

1 MessagesSettingsActivityHelpFind

SearchAnalyticsDatasetsReportsAlertsDashboards

Search & Reporting

New Search

Save AsCreate Table ViewClose

1 Index=task4 *SharePoInt.exe*
2 | table _time EventCode ParentImage Image ParentProcessId ProcessId ParentCommandLine CommandLine

All time

17 events (before 1/21/26 8:12:05.000 PM)No Event SamplingJobPauseRefreshDownloadSmart Mode

EventsPatternsStatistics (17)Visualization

Show: 20 Per PageFormatPreview: On

_time	EventCode	ParentImage	Image	ParentProcessId	ProcessId	ParentCommandLine	CommandLine
2025-08-14 11:15:09	1	C:\Windows\System32\cmd.exe	C:\Windows\System32\schtasks.exe	5844	5448	cmd.exe	schtasks /create /sc once /st 15:30 /tn "Office365 Install" /tr "C:\Windows\Temp\SharePoInt.exe"
2025-08-14 11:15:08	10						
2025-08-14 11:15:08	1	C:\Windows\Temp\SharePoInt.exe	C:\Windows\System32\cmd.exe	1460	5844	"C:\Windows\Temp\SharePoInt.exe"	cmd.exe
2025-08-14 11:14:39	11		C:\Windows\Temp\SharePoInt.exe		1460		
2025-08-14 11:14:17	1	-	C:\Windows\System32\schtasks.exe	700	3132	-	schtasks /create /sc onlogon /tn "Office365 Install" /tr "C:\Windows\Temp\SharePoInt.exe" /ru "Ben Foster"
2025-08-14 11:13:20	1	C:\Windows\System32\cmd.exe	C:\Windows\System32\schtasks.exe	700	5208	cmd.exe	schtasks /create /sc onlogon /tn "Office365 Install" /tr "C:\Windows\Temp\SharePoInt.exe"

splunk>enterpriseApps

1 MessagesSettingsActivityHelpFind

SearchAnalyticsDatasetsReportsAlertsDashboards

Search & Reporting

New Search

Save AsCreate Table ViewClose

1 Index=task4 *SharePoInt.exe* CommandLine=""C:\Windows\Temp\SharePoInt.exe\""

Date time range

1 event (8/14/25 11:10:22.000 AM to 8/14/25 11:10:22.001 AM)No Event SamplingJobPauseRefreshDownloadSmart Mode

Events (1)PatternsStatisticsVisualization

Timeline formatZoom OutZoom to SelectionDeselect1 millisecond per column

FormatShow: 20 Per PageView: List

< Hide Fields

All Fields

SELECTED FIELDS
a host 1
a source 1
a sourcetype 1
INTERESTING FIELDS
a category 1
a CommandLine 1
a Company 1
a ComputerName 1
a CurrentDirectory 1
a Description 1
a dvc 1
a dvc_nt_host 1

i	Time	Event
>	8/14/25 11:10:22.000 AM	... 19 lines omitted ... Image: C:\Windows\Temp\SharePoInt.exe FileVersion: - ... 3 lines omitted ... OriginalFileName: - CommandLine: "C:\Windows\Temp\SharePoInt.exe" CurrentDirectory: C:\Windows\Temp\ Show all 38 lines host = WIN-105 source = WinEventLog\Microsoft-Windows-Sysmon\Operational sourcetype = WinEventLog

Show: 20 Per Page ▾ Format ▾ Preview: On							
Time ▾	EventCode ▾	ParentImage ▾	Image ▾	ParentProcessId ▾	ProcessId ▾	ParentCommandLine ▾	CommandLine ▾
2025-08-14 11:09:47	11		C:\Program Files\Google\Chrome\Application\chrome.exe		6148		
2025-08-14 11:09:47	15		C:\Program Files\Google\Chrome\Application\chrome.exe		6148		
2025-08-14 11:10:22	7		C:\Windows\Temp\SharePoInt.exe		1460		
2025-08-14 11:10:22	1	C:\Windows\explorer.exe	C:\Windows\Temp\SharePoInt.exe	5240	1460	C:\Windows\Explorer.EXE	"C:\Windows\Temp\SharePoInt.exe
2025-08-14 11:10:24	3		C:\Windows\Temp\SharePoInt.exe		1460		
2025-08-14 11:11:57	10						
2025-08-14 11:13:20	1	C:\Windows\System32\cmd.exe	C:\Windows\System32\schtasks.exe	700	5208	cmd.exe	schtasks /create /sc onlogon /tn "Office365 Ins...
2025-08-14 11:14:17	1	-	C:\Windows\System32\schtasks.exe	700	3132	-	CommandLine = schtasks /create /sc onlogon /tn "Office365 Ins...
2025-08-14 11:14:39	11		C:\Windows\Temp\SharePoInt.exe		1460		
2025-08-14 11:15:08	10						
2025-08-14 11:15:08	1	C:\Windows\Temp\SharePoInt.exe	C:\Windows\System32\cmd.exe	1460	5844	"C:\Windows\Temp\SharePoInt.exe"	cmd.exe
2025-08-14 11:15:09	1	C:\Windows\System32\cmd.exe	C:\Windows\System32\schtasks.exe	5844	5448	cmd.exe	schtasks /create /sc once /st 15:30 /tn "Office365 Install" /tr "C:\Windows\Temp\SharePoInt.exe"

Events (1)

Patterns

Statistics

Visualization

Timeline format ▾

Zoom Out

+ Zoom to Selection

X Deselect

1 millisecond per column

Format ▾

Show: 20 Per Page ▾

View: List ▾

< Hide Fields

All Fields

SELECTED FIELDS

a host 1

a source 1

a sourcetype 1

INTERESTING FIELDS

a category 1

a CommandLine 1

a Company 1

a ComputerName 1

a CurrentDirectory 1

a Description 1

a dvc 1

a dvc_nt_host 1

event_Lid 1

EventCode 1

EventType 1

a eventType 3

a FileVersion 1

a Hashes 1

Id 1

a Image 1

a Index 1

a IntegrityLevel 1

a Keywords 1

8/14/25

11:13:20.000 AM

08/14/2025 11:13:20 AM

... 22 lines omitted ...

Company: Microsoft Corporation

OriginalFileName: schtasks.exe

CommandLine: schtasks /create /sc onlogon /tn "Office365 Install" /tr "C:\Windows\Temp\SharePoInt.exe"

CurrentDirectory: C:\Windows\Temp\

Show all 38 lines

Event Actions ▾

Type	Field	Value	Actions
Selected	<input checked="" type="checkbox"/> host ▾	WIN-105	▾
	<input checked="" type="checkbox"/> source ▾	WinEventLog:Microsoft-Windows-Sysmon\Operational	▾
	<input checked="" type="checkbox"/> sourcetype ▾	WinEventLog	▾
Event	<input type="checkbox"/> CommandLine ▾	schtasks /create /sc onlogon /tn "Office365 Install" /tr "C:\Windows\Temp\SharePoInt.exe"	▾
	<input type="checkbox"/> Company ▾	Microsoft Corporation	▾
	<input type="checkbox"/> ComputerName ▾	WIN-105	▾
	<input type="checkbox"/> CurrentDirectory ▾	C:\Windows\Temp\	▾
	<input type="checkbox"/> Description ▾	Task Scheduler Configuration Tool	▾
	<input type="checkbox"/> EventCode ▾	1	▾
	<input type="checkbox"/> EventType ▾	4	▾
	<input type="checkbox"/> FileVersion ▾	10.0.17763.1613 (WinBuild.160101.0800)	▾

Analysis of Windows logs in Splunk SIEM showing suspicious process execution and security-related events.

7. Linux Log Analysis

7.1 Linux Log Sources

Linux investigations rely on:

- Authentication logs (auth.log)
- System logs (syslog)

7.2 Findings from Linux Logs

The investigation revealed:

- Multiple failed SSH login attempts
- Successful brute-force login
- Privilege escalation to root
- Creation of a new remote SSH user
- Persistence using cron jobs

Key Findings:

- Account creation time: 2025-08-12 09:52:57
- Privileged user: jack-brown
- Source IP address: 10.14.94.82
- Failed login attempts: 4
- Persistence port: 7654

splunkenterpriseApps

MessagesSettingsActivityHelpFind

SearchAnalyticsDatasetsReportsAlertsDashboards

Search & Reporting

New Search

Save AsCreate Table ViewClose

1Index=task5 *remote-ssh*

All time

3 events (before 1/21/26 8:31:05.000 PM)No Event Sampling

Job

Timeline formatZoom OutZoom to SelectionDeselect

FormatShow: 20 Per PageView: List

< Hide Fields

All Fields

SELECTED FIELDS

a host 1

a source 1

a sourcetype 1

INTERESTING FIELDS

a action 1

a change_type 1

a COMMAND 1

a command 1

date_hour 1

date_mday 1

date_minute 1

i

Time

Event

> 8/12/25 9:52:57.200 AM 2025-08-12T09:52:57.200559+00:00 deceptipot-demo useradd[2709]: new user: name=remote-ssh, UID=1004, GID=1004, home=/home/remote-ssh, shell=/bin/sh, from=/dev/pts/2 host = ce-splunk source = auth.log sourcetype = linux_secure

> 8/12/25 9:52:57.200 AM 2025-08-12T09:52:57.200420+00:00 deceptipot-demo useradd[2709]: new group: name=remote-ssh, GID=1004 host = ce-splunk source = auth.log sourcetype = linux_secure

> 8/12/25 9:52:57.170 AM 2025-08-12T09:52:57.170059+00:00 deceptipot-demo sudo: root : TTY=pts/1 ; PWD=/home/jack-brown ; USER=root ; COMMAND=/usr/sbin/useradd remote-ssh host = ce-splunk source = auth.log sourcetype = linux_secure

10-49-130-145reverse-proxy-cell-prod-ap-south-1bvm.tryhackme.com/en-US

Timeline formatZoom OutZoom to SelectionDeselect

FormatShow: 20 Per PageView: List

< Hide Fields

All Fields

SELECTED FIELDS

a host 1

a source 1

a sourcetype 1

INTERESTING FIELDS

a action 1

a change_type 1

a COMMAND 1

a command 1

date_hour 1

date_mday 1

date_minute 1

date_month 1

date_second 1

a date_wday 1

date_year 1

date_zone 1

a eventtype 4

a from 1

GID 1

a home 1

a index 1

linecount 1

a name 1

a object 1

object_attr 1

a object_category 1

i

Time

Event

> 8/12/25 9:52:57.200 AM 2025-08-12T09:52:57.200559+00:00 deceptipot-demo useradd[2709]: new user: name=remote-ssh, UID=1004, GID=1004, home=/home/remote-ssh, shell=/bin/sh, from=/dev/pts/2 host = ce-splunk source = auth.log sourcetype = linux_secure

> 8/12/25 9:52:57.200 AM 2025-08-12T09:52:57.200420+00:00 deceptipot-demo useradd[2709]: new group: name=remote-ssh, GID=1004 host = ce-splunk source = auth.log sourcetype = linux_secure

> 8/12/25 9:52:57.170 AM 2025-08-12T09:52:57.170059+00:00 deceptipot-demo sudo: root : TTY=pts/1 ; PWD=/home/jack-brown ; USER=root ; COMMAND=/usr/sbin/useradd remote-ssh host = ce-splunk source = auth.log sourcetype = linux_secure

Event Actions

Type

Field

Value

Actions

Selected

host

ce-splunk

source

auth.log

sourcetype

linux_secure

Event

COMMAND

/usr/sbin/useradd

PWD

/home/jack-brown

TTY

pts/1

USER

root

eventtype

nix-all-logs

nix_security (os unix)

nix_ta_data

useradd (account add change management)

process

sudo

1Index=task5 process=sshd

2 | search "Accepted password" OR "Failed password"

All time

9 events (before 1/21/26 8:45:02.000 PM)No Event Sampling

Job

Timeline formatZoom OutZoom to SelectionDeselect

FormatShow: 20 Per PageView: List

< Hide Fields

All Fields

SELECTED FIELDS

a host 1

a source 1

a sourcetype 1

a user 2

INTERESTING FIELDS

a action 4

a app 1

date_hour 1

date_mday 1

date_minute 4

a date_month 1

date_second 8

a date_wday 1

date_year 1

date_zone 1

a eventtype 6

a index 1

linecount 1

i

Time

Event

> 8/12/25 9:54:13.094 AM 2025-08-12T09:54:13.094648+00:00 deceptipot-demo sshd[2873]: Accepted password for ubuntu from 10.14.94.82 port 54457 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = ubuntu

> 8/12/25 9:53:59.354 AM 2025-08-12T09:53:59.354427+00:00 deceptipot-demo sshd[2807]: Accepted password for ubuntu from 10.14.94.82 port 54456 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = ubuntu

> 8/12/25 9:53:51.423 AM 2025-08-12T09:53:51.423598+00:00 deceptipot-demo sshd[2716]: Accepted password for ubuntu from 10.14.94.82 port 54455 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = ubuntu

> 8/12/25 9:51:29.693 AM 2025-08-12T09:51:29.693579+00:00 deceptipot-demo sshd[2595]: Accepted password for jack-brown from 10.14.94.82 port 54451 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = jack-brown

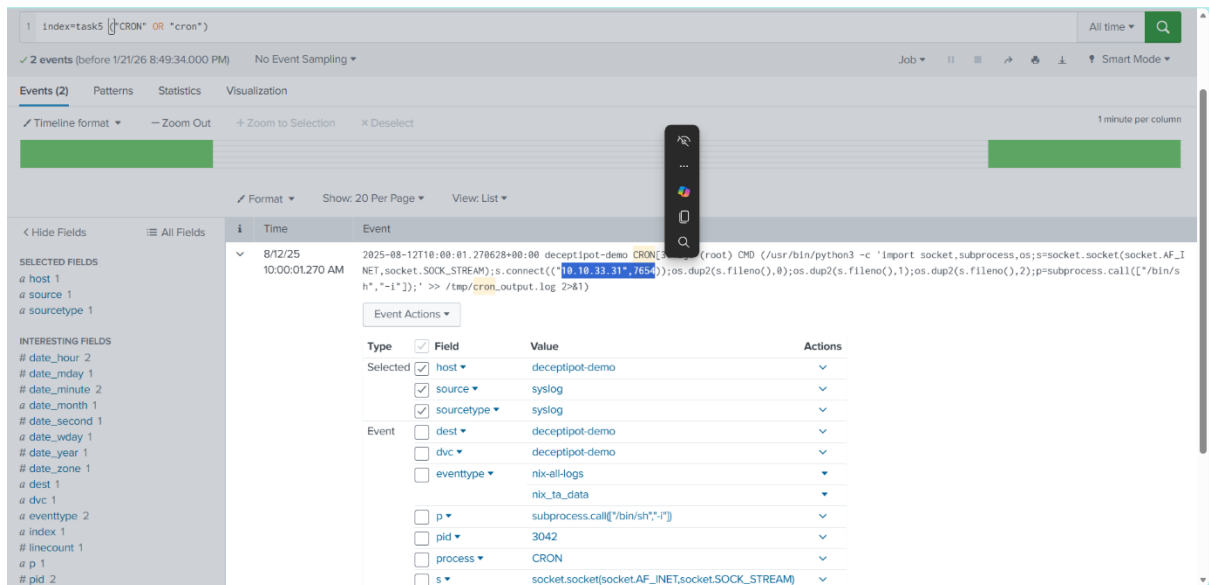
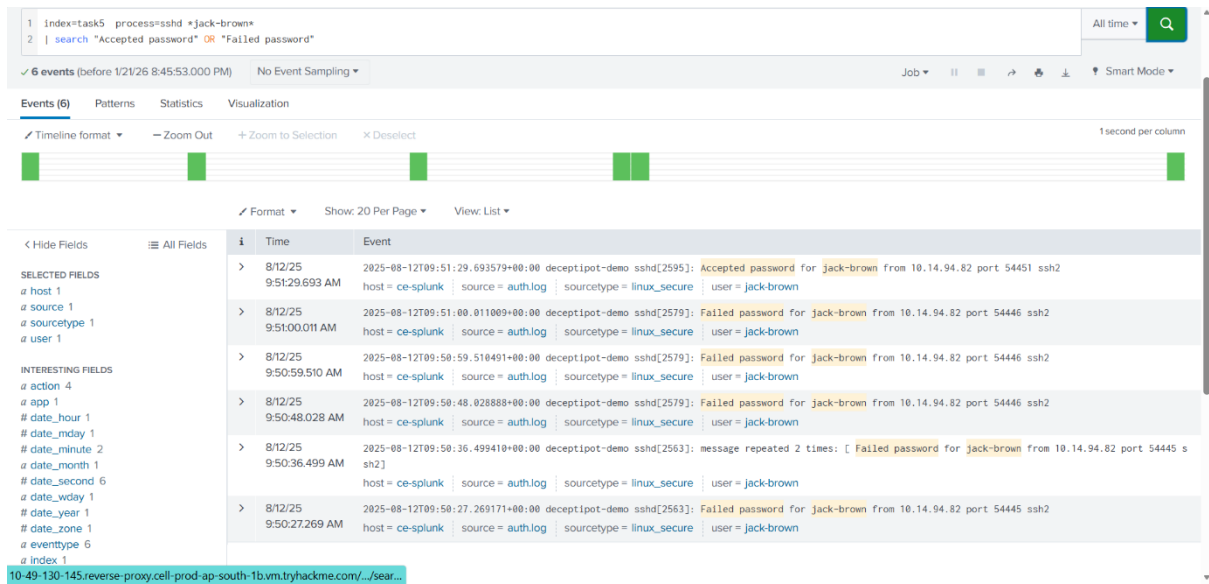
> 8/12/25 9:50:00.011 AM 2025-08-12T09:51:00.011009+00:00 deceptipot-demo sshd[2579]: Failed password for jack-brown from 10.14.94.82 port 54446 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = jack-brown

> 8/12/25 9:50:59.510 AM 2025-08-12T09:50:59.510491+00:00 deceptipot-demo sshd[2579]: Failed password for jack-brown from 10.14.94.82 port 54446 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = jack-brown

> 8/12/25 9:50:48.028 AM 2025-08-12T09:50:48.028888+00:00 deceptipot-demo sshd[2579]: Failed password for jack-brown from 10.14.94.82 port 54446 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = jack-brown

> 8/12/25 9:50:48.028 AM 2025-08-12T09:50:48.028888+00:00 deceptipot-demo sshd[2579]: Failed password for jack-brown from 10.14.94.82 port 54446 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = jack-brown

> 8/12/25 9:50:48.028 AM 2025-08-12T09:50:48.028888+00:00 deceptipot-demo sshd[2579]: Failed password for jack-brown from 10.14.94.82 port 54446 ssh2 host = ce-splunk source = auth.log sourcetype = linux_secure user = jack-brown



Analysis of Linux authentication and system logs used to detect brute-force login attempts and privilege escalation activity.

8. Web Application Log Analysis

8.1 Web Log Sources

Web servers generate access and error logs that help detect:

- Brute-force attacks
- Web shell activity
- DDoS attacks

8.2 Findings from Web Logs

The investigation identified:

- High-volume POST requests to WordPress login
- Repeated authentication attempts
- Use of an automated attack tool

Key Findings:

- Targeted URI: /wp-login.php
- Source IP address: 10.10.243.134
- Attack type: Brute-force
- Tool used: WPScan

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Apps

Messages

Settings

Activity

Help

Find

Search

Analytics

Datasets

Reports

Alerts

Dashboards

Search & Reporting

New Search

Save As

Create Table View

Close

1 index=task6 method=POST uri_path="/wp-login.php"

2 | bin _time span=5m

3 | stats values(referer_domain) as referer_domain values(status) as status values(useragent) as UserAgent values(uri_path) as uri_path count by clientip _time

4 | where count > 25

5 | table referer_domain clientip UserAgent uri_path count status

All time

✓ 743 events (before 1/21/26 8:56:19.000 PM)

No Event Sampling

Job

Smart Mode

Events

Patterns

Statistics (2)

Visualization

Show: 20 Per Page

Format

Preview: On

referer_domain	clientip	UserAgent	uri_path	count	status
http://10.10.28.135	10.10.243.134	WPScan v3.8.28 (https://wpscan.com/wordpress-security-scanner)	/wp-login.php	583	200
http://demo-web.deceptitech.thm	167.172.41.141	Mozilla/5.0 (Hydra)	/wp-login.php	160	200
		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/138.0.0.0 Safari/537.36		302	

splunkenterprise

Apps

Messages

Settings

Activity

Help

Find

Search

Analytics

Datasets

Reports

Alerts

Dashboards

Search & Reporting

New Search

Save As

Create Table View

Close

1 index=task6 method=POST uri_path="/wp-login.php"

2 | stats count by uri_path | sort -count

All time

✓ 743 events (before 1/21/26 8:58:01.000 PM)

No Event Sampling

Job

Smart Mode

Events

Patterns

Statistics (1)

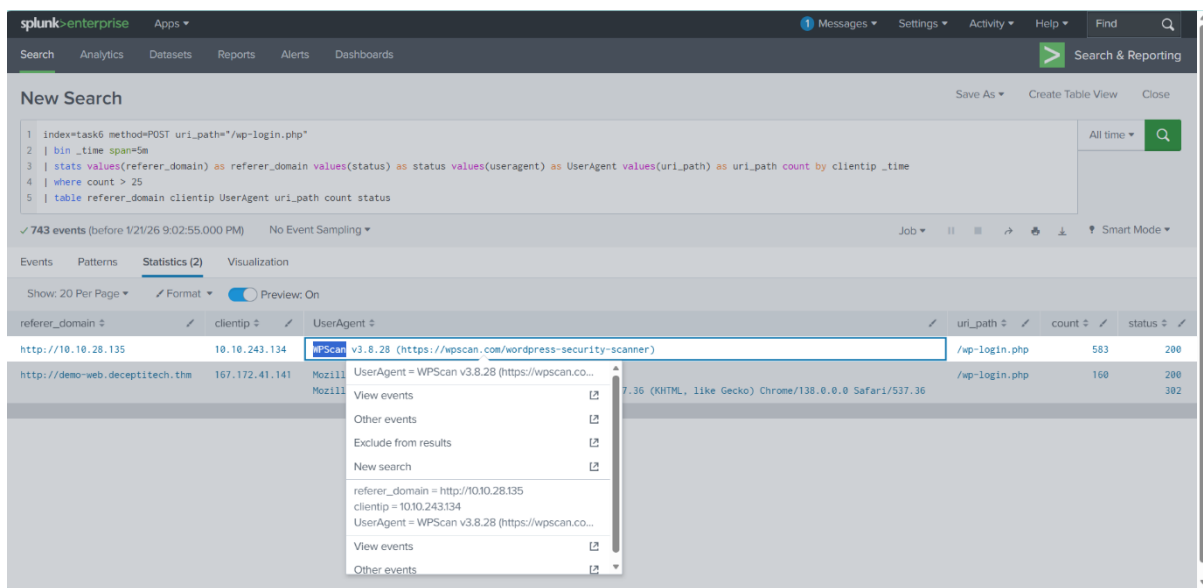
Visualization

Show: 20 Per Page

Format

Preview: On

uri_path	count
/wp-login.php	743



9. Learning Outcomes

Through this project, the following learning outcomes were achieved:

- Understanding of SIEM concepts and architecture
- Hands-on experience with Splunk Enterprise
- Ability to analyze Windows, Linux, and Web logs
- Detection of brute-force attacks, privilege escalation, and persistence
- Improved SOC investigation and reporting skills

10. Conclusion

This project demonstrated the use of Splunk Enterprise as a SIEM platform for analyzing security logs and investigating incidents. By examining Windows, Linux, and web application logs, the project showed how attackers leave identifiable traces at every stage of an attack.

The project highlighted the importance of SIEM features such as centralisation, correlation, and normalisation in detecting malicious behavior and responding to security incidents. Overall, this project reinforces the critical role SIEM tools play in modern Security Operations Centers.