

Scenario: You have recently joined the Security Operations team at a medium-sized organization. As part of your first assignment, you are tasked with analyzing OpenSSH log files to help identify any potential security threats. The organization has recently experienced a few suspicious incidents, and management is keen on understanding if there are any patterns or anomalies in the SSH login attempts.

Objective:

Your goal is to use Splunk Cloud to thoroughly analyze the provided OpenSSH log file and create a comprehensive report covering all aspects of your work. You will also need to set up a dashboard and an alert in Splunk Cloud to help monitor similar activities in the future. Additionally, you will manage user accounts in Splunk Cloud as part of the assignment.

Tasks:

1. User Management:

- **Add New Users:** Create a new user in Splunk Cloud for each group member. Ensure the following configurations:
 - **Time Zone:** Set the time zone to WAT (West Africa Time).
 - **Default App:** Set the default app to "launcher (home)."
 - **Password Policy:** Configure each user to change their password on the first login.
 - **Role Assignment:** Assign an appropriate role to each new user based on their responsibilities.

2. Analysis:

- **Upload the Log File:** Load the provided OpenSSH log file into Splunk Cloud.
- **Analyze the Data:** Conduct a detailed analysis of the log file. Look for anomalies such as unusual IP addresses, multiple failed login attempts, or any other indicators of potential security issues.

3. Dashboard and Alert Creation:

- **Create a Dashboard:** Use the search query ***'Received disconnect from 112.95.230.3: 11: Bye Bye [preauth]'*** to create a dashboard in Splunk Cloud. Ensure the dashboard visualizes relevant data from the OpenSSH logs effectively.
- **Configure an Alert:** Set up an alert based on the provided search query. The alert should:
 - Run daily at 8am.
 - Expire after 24 hours.
 - Trigger when the number of results is greater than 2.
 - Be received via email in plain text format.
 - **Include all group members as recipients:** Ensure that all members of your group are included as recipients of the alert email.
 - **Restrict Email Domain:** Configure Splunk to allow alert emails to be sent only to a particular domain.

4. **Field Extraction:**

- **Create Field Extraction:** Configure a field extraction for the IP address **'183.62.140.253'** in Splunk Cloud. Name the extraction **'src_ip'**.

5. **Reporting:**

- Prepare and submit a well-organized report that includes your Splunk Cloud dashboard and alert configurations along with a comprehensive summary of all tasks completed.

Resources:

[Create Free Splunk Cloud Account](#)

[How to create users in splunk cloud](#)

[How to upload log file to splunk](#)

[About Splunk Commands](#)