

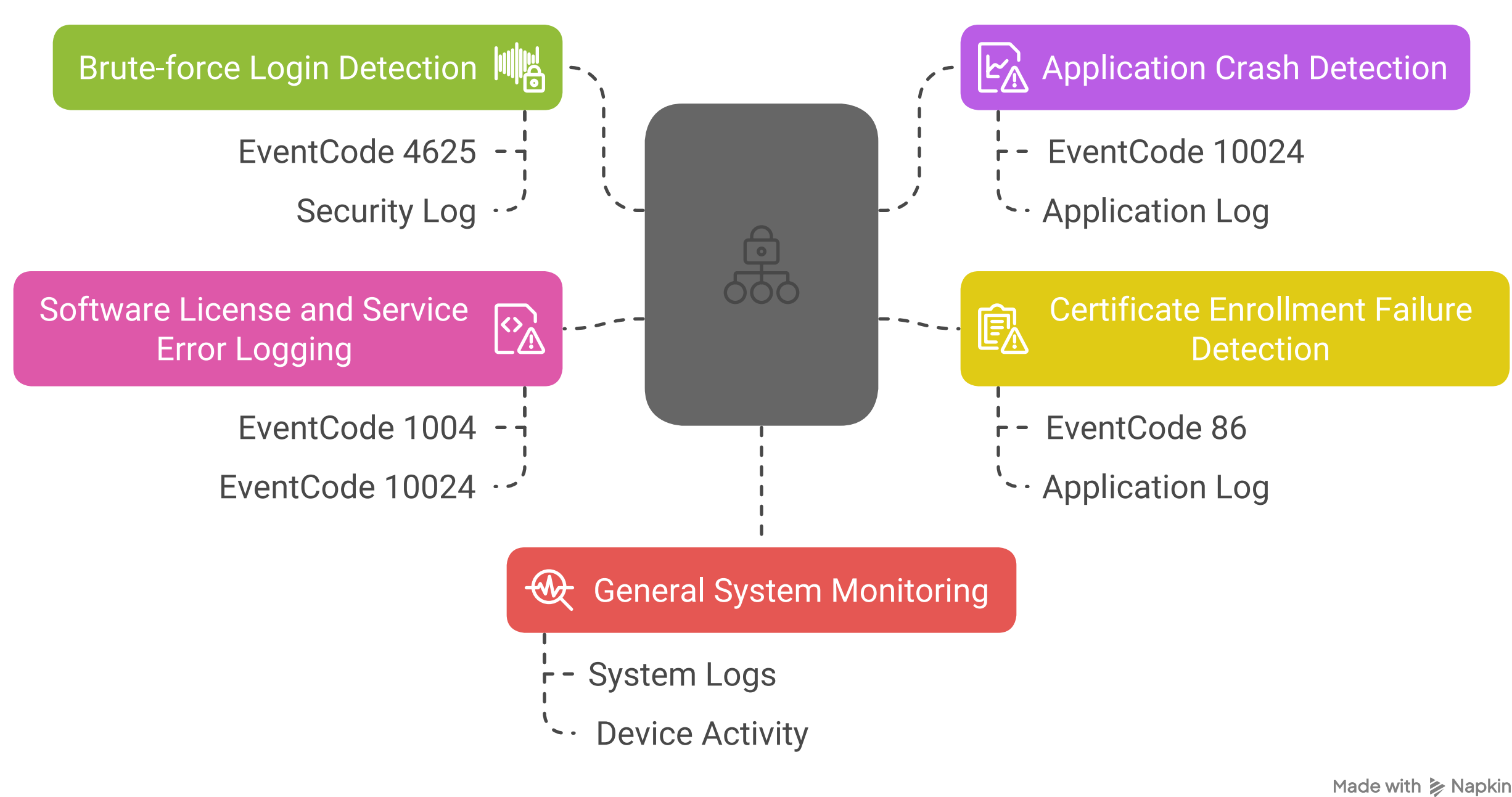
# Splunk Threat Detection Project Report

This document outlines the steps taken in a project that utilizes Splunk for monitoring and analyzing Windows Event Logs to identify common attack patterns and system events. The report details the objectives, use cases implemented, tools and environment used, SPL queries executed, and concludes with the effectiveness of Splunk in real-time log analysis and threat detection.

## 1. Objective

This project uses Splunk to monitor and analyze Windows Event Logs to detect common attack patterns and system events.

## 2. Use Cases Implemented



## 3. Tools & Environment

- **Splunk Enterprise** installed on Windows 10
- **Log Sources:**
  - WinEventLog:Security
  - WinEventLog:Application
  - WinEventLog:System

## 4. SPL Queries Used

**brute\_force\_logins.spl:**

```
index=main OR index=default sourcetype=WinEventLog:Security EventCode=4625
| stats count by Account_Name, Workstation_Name
| where count > 5
```

**application\_crashes.spl:**

```
index=main sourcetype=WinEventLog:Application
| search Message="forcibly terminated"
| table _time, Source, EventCode, Message
```

**system\_device\_activity.spl:**

```
index=main sourcetype=WinEventLog:System
| table _time, Source, EventCode, Message
```

# Note: No system-related results were observed in this session.

## 5. Conclusion

This project demonstrates how Splunk can be effectively used for real-time log analysis and threat detection across multiple Windows log sources. Although system logs returned no data in this instance, the workflow lays the foundation for ongoing monitoring and SIEM development. It serves as a strong foundation for building a home-based SIEM system.