

## Splunk Enterprise Security Hands-On Workshop

Thank you for attending our Enterprise Security Hands-On workshop. We hope you found it helpful. Below are links referenced during the workshop as well as some other helpful links to use.

### Apps Referenced

SA-Investigator for Enterprise Security - <https://splunkbase.splunk.com/app/3749/>

Enterprise Security Content Update - <https://splunkbase.splunk.com/app/3449/>

Splunk Stream: <https://splunkbase.splunk.com/app/1809/>

### Additional Data Sources

Splunk Stream:

<https://docs.splunk.com/Documentation/StreamApp/latest/User/ConfigureStreams>

Osquery: <https://osquery.io/>

Microsoft Sysmon: <https://docs.microsoft.com/en-us/sysinternals/downloads/sysmon>

### Web Vulnerability Scenario

The Diamond Model of Intrusion Analysis: <http://www.activeresponse.org/wp-content/uploads/2013/07/diamond.pdf>

W3af web vulnerability scanner: <http://w3af.org/>

WebApp Information Gatherer: <https://github.com/jekyc/wig>

### Exploit Database

SQL Injection: <https://www.exploit-db.com/exploits/40396/>

Cross Site Scripting: <https://www.exploit-db.com/exploits/40749/>

### ES Concepts Covered

Incident Review:

<http://docs.splunk.com/Documentation/ES/latest/User/IncidentReviewdashboard>

Workflow Actions:

<http://docs.splunk.com/Documentation/Splunk/latest/Knowledge/CreateworkflowactionsinSplunkWeb>

Asset Center:

[http://docs.splunk.com/Documentation/ES/latest/User/IdentityDomaindashboards#Asset\\_Center\\_dashboard](http://docs.splunk.com/Documentation/ES/latest/User/IdentityDomaindashboards#Asset_Center_dashboard)

Glass Tables: <http://docs.splunk.com/Documentation/ES/latest/User/CreateGlassTable>

### Commands Used

stats: <https://docs.splunk.com/Documentation/Splunk/latest/SearchReference/stats>

## APT Scenario

PowerShell Empire: <https://github.com/EmpireProject/Empire>

Censys.IO: <https://censys.io>

## ES Concepts Covered

Incident Review:

<http://docs.splunk.com/Documentation/ES/latest/User/IncidentReviewdashboard>

Investigations: <http://docs.splunk.com/Documentation/ES/latest/User/Timelines>

Adaptive Response Actions:

[http://docs.splunk.com/Documentation/ES/5.2.0/User/IncludedResponseActions#Add\\_threat\\_intelligence](http://docs.splunk.com/Documentation/ES/5.2.0/User/IncludedResponseActions#Add_threat_intelligence)

SSL Search:

[http://docs.splunk.com/Documentation/ES/latest/User/ProtocolIntelligence#SSL\\_Search](http://docs.splunk.com/Documentation/ES/latest/User/ProtocolIntelligence#SSL_Search)

Workflow Actions:

<http://docs.splunk.com/Documentation/Splunk/latest/Knowledge/CreateworkflowactionsinSplunkWeb>

## Endpoint/Spyware Scenario

Fruitfly: <https://www.blackhat.com/docs/us-17/wednesday/us-17-Wardle-Offensive-Malware-Analysis-Dissecting-OSXFruitFly-Via-A-Custom-C&C-Server.pdf>

Updated Information on Fruitfly: <https://www.zdnet.com/article/fbi-solves-mystery-surrounding-15-year-old-fruitfly-mac-malware/>

Detecting Dynamic DNS Domains In Splunk:

<https://www.splunk.com/blog/2015/08/04/detecting-dynamic-dns-domains-in-splunk.html>

Device Hunt: <https://devicehunt.com>

## ES Concepts Covered

DNS Search:

[http://docs.splunk.com/Documentation/ES/latest/User/ProtocolIntelligence#DNS\\_Search](http://docs.splunk.com/Documentation/ES/latest/User/ProtocolIntelligence#DNS_Search)

Incident Review:

<http://docs.splunk.com/Documentation/ES/latest/User/IncidentReviewdashboard>

Correlation Searches:

<http://docs.splunk.com/Documentation/ES/latest/Admin/Correlationsearchoverview>

Lists and Lookups:

<http://docs.splunk.com/Documentation/ES/latest/Admin/Createlookups>

Endpoint Changes:

[http://docs.splunk.com/Documentation/ES/latest/User/EndpointProtectionDomaindashboards#Endpoint\\_Changes\\_dashboard](http://docs.splunk.com/Documentation/ES/latest/User/EndpointProtectionDomaindashboards#Endpoint_Changes_dashboard)

Investigations: <http://docs.splunk.com/Documentation/ES/latest/User/Timelines>

Hunting with Splunk! Blog Series: <https://www.splunk.com/blog/2017/07/06/hunting-with-splunk-the-basics.html>

Splunk Quick Reference: <https://www.splunk.com/pdfs/solution-guides/splunk-quick-reference-guide.pdf>

Splunk Search Reference:

<http://docs.splunk.com/Documentation/Splunk/latest/SearchReference/WhatsInThisManual>

### **Additional Resources**

Windows Detection and Hunting with Sysmon by Tom Ueltschi:

<https://www.first.org/resources/papers/conf2017/Advanced-Incident-Detection-and-Threat-Hunting-using-Sysmon-and-Splunk.pdf>

Windows logging configuration cheatsheets: <https://www.malwarearchaeology.com/cheat-sheets/>

Endpoint Threat Hunting Using Splunk and Sysmon:

[https://medium.com/@haggis\\_m/splunking-the-endpoint-threat-hunting-with-sysmon-9dd956e3e1bd](https://medium.com/@haggis_m/splunking-the-endpoint-threat-hunting-with-sysmon-9dd956e3e1bd)

Forum of Incident Response and Security Teams (FIRST): <https://first.org>