**Splunk Proficiency Objective Completed**

* Completed Splunk Fundamentals course chapters.
* Understand role of Splunk components: Forwarders, Indexers, Search Head, Source types, Events.
* Used Splunk queries to check which servers were logging/not logging to Splunk indexes.
* Used advanced "lookups" to quickly get status of many servers.
* Learned how to install the Splunk Forwarder and associated "apps".
* Developed Ansible playbooks to install & upgrade Splunk on Linux, AIX and Windows servers.

**Technical Accomplishments**

1. Developed technique on Ansible Tower to test presence of ssh keys for **ansibsplunk** user on TJX prod & non-prod servers.  Ran in batches to determine list of servers which required manual remediation.
2. **Developed playbook & role to forward logging from TJX servers to syslog.**  Time-sensitive project due to pending ArcSight license expiration!  All TJX servers (prod/non-prod, Linux/AIX) needed to forward their system logs to central Syslog server.
   * **JIRA ticket:** [Ansible playbook: Enable logging to Syslog server (SECTEAM-619)](https://jira.tjx.com/browse/SECTEAM-619)
   * I implemented this key functionality:
     + Dynamic detection of OS (Linux vs AIX)
     + Edit config file (rsyslog.config) on each target server
     + Dynamic search for key string in config file (os dependent search)
     + Replace key value (ArcSight server to Syslog server)
     + Replacement value is based on server’s OS (Linux/AIX) and location (NA/EU/AU)
     + All values defined as Ansible group variables.
     + Auto stop & start of Syslog service after update.
3. **Developed playbook & role to upgrade Splunk Universal Forwarder on Unix servers.**
   * **Jira ticket:**[Ansible playbook: Install/upgrade Splunk on Unix (DSOTEAM-1054)](https://jira.tjx.com/browse/DSOTEAM-1054)
   * I implemented this key functionality:
     + Dynamic detection of install vs upgrade scenario
     + Create Splunk destination path with proper access rights
     + Added support for AIX servers.  Allowed us to remove separate AIX playbook.
4. **Developed playbook & role to install Splunk Universal Forwarder on Windows servers**
   * **JIRA ticket:**[Ansible playbook: Install Splunk on Windows (DSOTEAM-1056)](https://jira.tjx.com/browse/DSOTEAM-1056)
   * I implemented this key functionality:
     + Configured WinRM with CREDSSP transport for Ansible-Windows connectivity
     + Pulled Splunk installer files from JFrog artifactory.
     + Auto stop & start of Splunk service
     + Auto clean-up of temp files upon completion.
5. **Developed playbook & role to install/upgrade App Dynamics**
   * **JIRA tickets:**
     + [Ansible playbook: Install AppDynamics on Linux (DSOTEAM-1063)](https://jira.tjx.com/browse/DSOTEAM-1063)
     + [Ansible playbook: Install AppDynamics on Windows (DSOTEAM-1058)](https://jira.tjx.com/browse/DSOTEAM-1058)
   * I implemented this key functionality:
     + Used Ansible tags to control workflow:  Install java agent vs machine agent
     + Pulled AppDynamic installer files from JFrog artifactory.
6. **Developed playbook & role to disable log forwarding to Syslog**
   * **JIRA ticket:**[Ansible playbook: Disable syslog forwarding (DSOTEAM-1052)](https://jira.tjx.com/browse/DSOTEAM-1052)
   * This playbook stops servers from sending their logs to Syslog server.  Replaced original config file entry with date-stamped comment to explain how & why the file got edited.
7. **Server Tracking Initiative**
   * I tracked & reported status of 1400 Prod & Non-prod TJX server logging to Splunk cloud. Used Splunk queries to determine logging success.

**User Support**

1. **Resolved user Splunk failover issue.**
   * **JIRA ticket**: [Configure Splunk on Marshalls TM1 Prod fail-over server (DSOE-2822)](https://jira.tjx.com/browse/DSOE-2822)
   * **Description**:  Resolved issue with fail-over server not logging to Splunk.  Used root cause analysis to isolate server issue.  Discussion with customer revealed they copied entire config tree from master server.  I used text string search to confirm invalid server reference in configuration!
2. **Blue Prism-Splunk integration**
   * **JIRA ticket:** [Enable Splunk logging for Blue Prism servers via Http Event Collector (DSOTEAM-958)](https://jira.tjx.com/browse/DSOTEAM-958)
   * **Description:** I created an Http Event Collector token for the Blue Prism team.  This establishes basic connectivity between Blue Prism servers and Splunk cloud.   Blue Prism team will create a dashboard in Splunk using audit log from Blue Prism servers.