

## Annual Pentesting Engagement Automation:

### People:

Engagement Manager  
Application Owner  
Application Security Leader  
Vendor (Future)

### Flow :

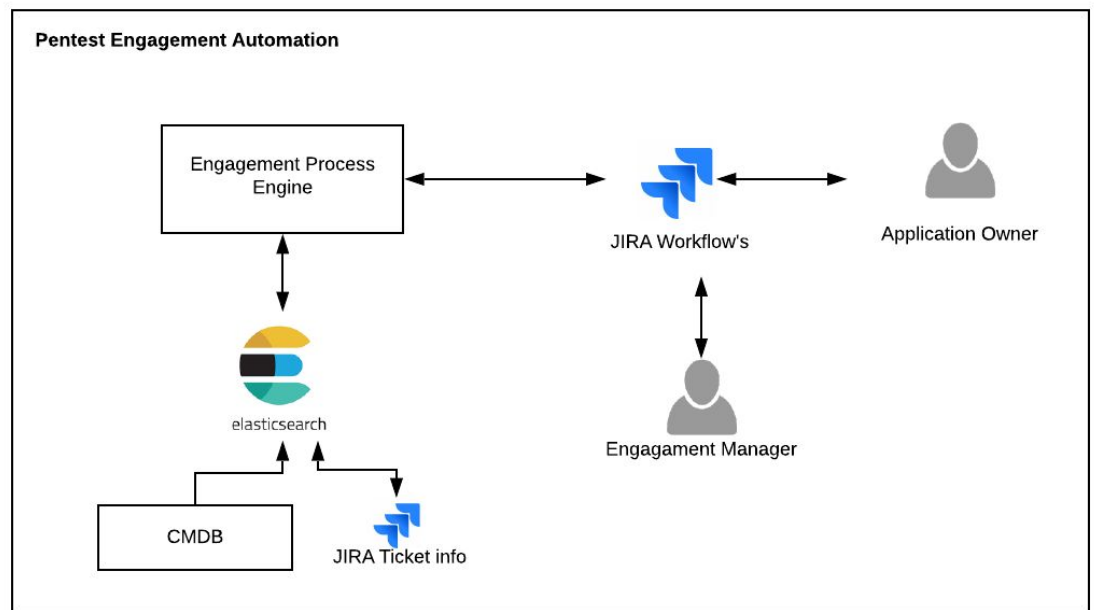
1. Pull CMDB data on a daily basis to keep in sync with updates to CMDB
2. **Process engine** trigger's JIRA work-flow for any application ready for Annual Pentesting or any new application went to production.

#### JIRA work-flow:

- JIRA service ticket created with a Form asking Application owner to fill details of application to be pen tested. Some fields are auto populated from CMDB.
- JIRA ticket moves back and forth from Application Owner to Engagement Manager if information is missing.
- If Engagement Manager Satisfies with the information provided in JIRA ticker, Vendor pen testing process kicks-in ( this is outside scope of this design).

### Systems:

- **Process engine**
- **CMDB (a.k.a Asset Management System)**
- **ElasticSearch**
  - Used as a Datalake
  - Stores up-to-date information on applications or software assets synched daily with CMDB.
  - Data from JIRA (ticket information) is stored in Data Lake to run analysis and to show Dashboards. The following information is fetched.
    - JIRA ticket information
    - History of processed tickets.
  - Dashboards for Application Security Leader
    - Ad-hoc dashboards can be created by correlating data from JIRA and CMDB
      - Current engagements
      - Future engagements
      - Pending engagements
      - Completed Engagements



## High level Design