## DevSecOps Tooling Cheat Sheet

## (4/25/18)

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| **Capability** | **Tool** | **Purpose** | **Status** |
| **Application Lifecycle Management**  (ALM) |  | Centralize & prioritize backlog items, release traceability, Team Room facility to organize sprints and track metrics | Available for agile team use—to onboard please contact Doug Carlson |
| **Version Control**  **System**  (VCS/SCM) |  | Change tracking for source code, scripts & configuration files—strong team collaboration capabilities | Available for general use—to onboard please contact Dana Colpo |
| **Continuous Integration / Continuous Deployment** (CI/CD) |  | Automated orchestration of app build, deployment & test tooling across CI/CD pipeline—consolidates left-shifted feedback to developers | *POC in progress—onboard readiness targeted for mid-June* |
| **Artifact**  **Repository** |  | Centralized management of binary artifacts—deployment packages, open source libraries & COTS installs | *Standup project kicking off—onboard readiness targeted for mid-July* |
| **Static Code**  **Analysis** |  | Inspects source code within IDE and on build server for code quality defect based on configurable rulesets | *POC in progress—onboard readiness targeted for mid-August* |
| **Continuous Configuration Management** (CCM) | ***TBD*** | Defines environment infrastructure as code (IaC), centralized auditing & sync of server configuration policies | *Re-evaluating tool selection: Chef or Ansible* |
| **Test**  **Automation Tools** (various) | ***TBD*** | Provide automated testing capability for mobile (e.g. Perfecto), traditional GUIs (e.g. Selenium) & unit test suites | *Vendor/tooling selection in progress* |
| **Service Virtualization**  (SV) | ***TBD*** | Simulates sub-system dependencies (databases, web-services, etc.) so app teams can test their layer in isolation | *RFP in progress* |
| **Test Data Management**  (TDM) | ***TBD*** | Provides capabilities such as gold-copy image management, fabrication, de-identification, ID/key synchronization | *TDM framework implementation partner selection in progress* |
| **Application Release Automation**  (ARA) | ***TBD*** | Orchestrates app promotion across non-prod environments and ultimately into prod—enables automated rollback | *RFP in progress* |
| **Static Application Security Testing**  (SAST - IDE) |  | Lightweight static analysis IDE plug-in that detects common security defects as the developer codes | Available for general use—contact Security Champion to onboard |
| **Software Composition Analysis** (SCA) |  | Automated identification of known vulnerabilities in open source software or third-party code | *Standup project kicking off—onboard readiness targeted for mid-June* |
| **Static Application**  **Security Testing**  (SAST – Pipeline) | ***TBD*** | Automated discovery of security defects without actually executing underlying code | *RFP in progress* |

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