

Cloud Orchestration, DevSecOps, Low-Code Solutions

8(a) | 8(a) STARS III HIGHLIGHTS

PURPOSE

Overview Detailing Capabilities around Cloud Orchestration, DevSecOps and Low-Code Solutions for Public Sector



BOOKER DIMAIO

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Cloud Orchestration →

- Ansible
- Terraform
- Gitlab
- AWS CloudFormation
- Microsoft Azure Automation
- IBM Cloud Orchestrator

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DevSecOps →

CI/CD ORCHESTRATION:

- Jenkins
- VMware Tanzu (Cloud Foundry)
- Atlassian Bamboo
- Travis CI

SOURCE CODE REPOSITORY:

- GitLab
- GitHub

SECURITY/CODE SCANNING TOOLS:

- SonarQube
- Fortify
- Tenable.io
- Nessus
- OWASP
- JFrog Xray
- ClamAV

BUILD/ARTIFACT TOOLS:

- JFrog Artifactory
- Nexus
- Apache Maven
- Harbor

SOFTWARE AUTOMATION TESTING:

- xUnit (i.e., JUnit)
- Selenium
- Katalon

SOFTWARE TEAM TICKETING/CHAT/COMMUNICATION

- Atlassian Jira
- ServiceNow ITSM
- Slack
- Mattermost
- Atlassian Confluence

INFRASTRUCTURE MONITORING

- Nagios Core
- Splunk
- IBM Observability (Instana)

INFRASTRUCTURE (COMPUTE, STORAGE, NETWORKING, SECURITY, ETC.)

- AWS Cloud
- Microsoft Azure Cloud
- Google Cloud
- On-Premise

SECURITY

- DoD Secure Cloud Computing Architecture (DISA)
- Risk Management Framework (RMF)
- SD Elements
- SecuLore

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Low-Code Solutions →

- Appian
- Katalon
- Apache NiFi



Our Past Performance

Booker DiMaio's experience includes the Department of Defense, United States AirForce, Kessel Run Division, Hanscom AFB, where the team did unit level intelligence application re-hosting, replatforming, and modernization. The team leveraged Ansible, Terraform, and Gitlab/GitHub in a CI/CD Kubernetes based environment in AWS within CloudONE.

Moreover, within the Health and Human Services Centers of Medicaid and Medicare Services, Booker DiMaio implemented Enterprise Master Data Management at scale leveraging Ansible, Terraform, and Gitlab in a modernized software environment managing patient and provider data applications in the cloud. Booker DiMaio also has experience in low-code solutions with the United States Marines MCRIS Unit leveraging Appian low-code software development.

Cloud Orchestration

Booker DiMaio is skilled in working with cloud orchestration and automation tools such as:

ANSIBLE

An open-source software provisioning, configuration management, and application-deployment tool enabling infrastructure as code.

TERRAFORM

An infrastructure as code tool that lets you build, change, and version cloud and on-prem resources safely and efficiently.

GITLAB

Designed for cloud native applications with tight Kubernetes integration in a single application for unparalleled collaboration, visibility, and development velocity. Businesses are shifting from traditional deployment models to cloud native applications to gain speed, reliability, and scale.



AWS CLOUDFORMATION

A service that gives developers and businesses an easy way to create a collection of related AWS and third-party resources, and provision and manage them in an orderly and predictable fashion.



MICROSOFT AZURE AUTOMATION

Delivers cloud-based automation, operating system updates, and configuration services that support consistent management across your Azure and non-Azure environments, including process automation, configuration management, update management, shared capabilities, and heterogeneous features.

IBM CLOUD ORCHESTRATOR

A comprehensive cloud management platform that helps IT operations teams build a cloud delivery platform to increase the speed of service delivery, while maintaining enterprise level control and governance over IT services.

DevSecOps

Booker DiMaio is highly successful in working in DevSecOps environments, using agile software development (SDLC) within a modernized software factory and with tooling such as:



CI/CD Orchestration

JENKINS

An open-source automation server; automate the parts of software development related to building, testing, and deploying, which facilitates continuous integration and delivery.

VMWARE ARE TANZU (CLOUDFOUNDRY)

Cloud-native platform for deploying and operating modern applications. It is the suite or portfolio of products and solutions that allow its customers to build, run, and manage Kubernetes controlled container-based applications. VMware Cloud Foundry® is the world's most powerful cloud-native platform to build and run software.

ATLASSIAN BAMBOO

A continuous integration (CI) and deployment (CD) tool that ties automated builds, tests, and releases together in a single workflow.

TRAVIS CI

A hosted continuous integration (CI) service used to build and test software projects hosted on GitHub and Bitbucket.



Source Code Repository

GITLAB

DevOps software that combines the ability to develop, secure, and operate software in a single application: a web-based Git repository that provides free open and private repositories, issue-following capabilities, and wikis.

GITHUB

A Git repository hosting service that provides a web-based graphical interface and the world's largest coding community.

Security/Code Scanning Tools

SONARQUBE

An open-source platform developed for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs and code smells on 20+ programming languages. It offers reports on duplicated code, coding standards, unit tests, code coverage, code complexity, comments, bugs, and security recommendations.

FORTIFY

A suite of tightly integrated solutions for fixing and preventing security vulnerabilities in applications. It eliminates software security risk by ensuring that all business software—whether it is built for the desktop, mobile or cloud—is trustworthy and in compliance with internal and external security mandates. It performs Security Static Analysis, also known as Static Application Security Testing (SAST), and Dynamic Analysis, also known as Dynamic Application Security Testing (DAST).

TENABLE.IO

Provides actionable insight into your entire infrastructure's security risks, allowing you to identify, investigate, and prioritize vulnerabilities and misconfigurations in your modern IT environment quickly and accurately.

NESSUS

An open-source network vulnerability scanner that uses the Common Vulnerabilities and Exposures architecture for easy cross-linking between compliant security tools. Nessus scans can include vulnerabilities that allow unauthorized access to sensitive data, misconfigurations (open mail relay, missing patches, etc.), or password issues (default, common, or blank passwords). Nessus can also call Hydra (an external tool) to launch a dictionary attack, and scans for denial-of-service vulnerabilities.

OWASP

Web application vulnerability scanners are automated tools that scan web applications, normally from the outside, to look for security vulnerabilities such as cross-site scripting, SQL injection, command injection, path traversal, and insecure server configuration. OWASP vulnerabilities are security weaknesses or problems published by the Open Web Application Security Project.



JFROG XRAY

A universal software composition analysis (SCA) solution that natively integrates with Artifactory, giving developers and DevSecOps teams an easy way to proactively identify vulnerabilities on open source and license compliance violations before they manifest in production releases.

CLAMAV

Clam Antivirus (ClamAV) is a free, open-source, cross-platform antimalware toolkit able to detect many types of malwares, including viruses.

Build/Artifact Tools

JFROG ARTIFACTORY

A universal DevOps solution providing end-to-end automation and management of binaries and artifacts through the application delivery process that improves productivity across your development ecosystem.

NEXUS

Nexus by Sonatype is a repository manager that organizes, stores, and distributes artifacts needed for development. With Nexus, developers can completely control access to, and deployment of, every artifact in an organization from a single location, making it easier to distribute software.

APACHE MAVEN

A software project management and comprehension tool based on the concept of a project object model

(POM), Maven can manage a project's build, reporting, and documentation from a central piece of information. Maven is a popular open-source build tool developed by the Apache Group to build, publish, and deploy several projects at once for better project management. The tool provides allows developers to build and document the lifecycle framework.

HARBOR

An open-source registry that secures artifacts with policies and role-based access control, ensures images are scanned and free from vulnerabilities, and signs images as trusted.



Software Automation Testing

xUNIT (I.E., JUNIT)

Unit testing comes into picture at the developer level as the testing of a single entity (class or method). Unit testing plays a critical role in helping a software company deliver quality



deliver quality products to its customers. Unit testing can be done in two ways: manual testing and automated testing. JUnit is a unit testing framework for Java programming language. It plays a crucial role in test-driven development and is a family of unit testing frameworks collectively known as xUnit.

SELENIUM

Selenium is an open-source tool that automates web browsers. It is most famous for enabling rapid, repeatable web-app testing, which allows developers to ship new releases faster and with confidence. It provides a single interface that lets you write test scripts in programming languages like Ruby, Java, NodeJS, PHP, Perl, Python, and C#, among others.

KATALON

Leading low-code test automation solution for web, API, mobile, and desktop apps. It is an automation testing software tool built on top of the open-source automation frameworks Selenium, Appium with a specialized IDE interface for web, API, mobile, and desktop application testing.

Software Team Ticketing/Chat/Communication

ATLASSIAN JIRA

A software application used for issue tracking and project management. The tool has become widely used by agile development teams to track bugs, stories, epics, and other tasks.

SERVICENOW ITSM

IT Service Management is the planning, delivery, and support of IT services via people, processes, and technology. ITSM is a set of workflows and tools for optimally developing, delivering, and managing IT services. ITSM is used to handle incidents, service requests, problems, and changes – all of which are typically linked through an ITSM platform such as ServiceNow.

SLACK

A messaging app for business that connects people to the information they need. By bringing people together to work as one unified team, Slack transforms the way organizations communicate.

MATTERMOST

Open-source platform for secure communications, collaboration, and workflow orchestration. This platform allows teams to operate faster without sacrificing security across tools and teams. It is designed as an internal chat for organizations and companies, and mostly as an open-source alternative to Slack and Microsoft Teams.

ATLASSIAN CONFLUENCE

A collaboration wiki tool used to help teams collaborate and share knowledge efficiently. With Confluence, we can capture project requirements, assign tasks to specific users, and manage several calendars at once with the help of Team Calendars add-on.



Infrastructure Monitoring

NAGIOS CORE

Nagios is a free and open-source computer-software application that monitors systems, networks, and infrastructure. Nagios Core offers monitoring and alerting services for servers, switches, applications, and services.



SPLUNK

Uses machine data for identifying data patterns, providing metrics, diagnosing problems, and providing intelligence for business operations. Splunk is mainly used for searching, monitoring, and examining machine-generated Big Data through a web-style interface.

IBM OBSERVABILITY (INSTANA)

IBM Observability is a robust application performance monitoring solution that helps you track performance and resolve incidents faster. IBM Observability improves application performance management and accelerate CI/CD pipelines no matter where applications reside –public cloud, private

cloud, private cloud, hybrid cloud, on premises, IBM Z® and more. With IBM® Observability by Instana, users can combine APM with automation capabilities and distributed tracing to deploy on premises or as a SaaS solution.

Infrastructure (Compute, Storage, Networking, Security, etc.)

AWS CLOUD

AWS (Amazon Web Services) is a comprehensive, evolving cloud computing platform provided by Amazon that includes a mixture of infrastructure as a service (IaaS), platform as a service (PaaS), and packaged software as a service (SaaS) offerings.

MICROSOFT AZURE CLOUD

Microsoft Azure is a cloud computing service from Microsoft. Azure offers a range of software as a service (SaaS), platform as a service (PaaS), and infrastructure as a service (IaaS) options for deploying applications and services on Microsoft-managed data center

GOOGLE CLOUD

A suite of public cloud computing services offered by Google. The platform includes a range of hosted services for computing storage, and application development that run on Google hardware.



ON-PREMISE

A company keeps all of this IT infrastructure onsite, which is either managed by themselves or a third-party. With the Cloud it means that it is housed offsite with someone else responsible for monitoring and maintaining it.

We leverage customer provided and/or CompleteCloud (private cloud infrastructure) holistically manages all your business's cloud networking and computing, hardware, core software, internet, backup, and security; CompleteCloud takes all the major components of IT and offers it as a simple, per user per monthly subscription.

Security

DoD SECURE CLOUD COMPUTING ARCHITECTURE (BY DISA)

DISA's SCCA is a Scalable, Cost-Effective Approach to Securing Cloud-Based Programs Under a Common Security Architecture; is a suite of enterprise-level cloud security and management services.

It provides a standard approach for boundary and application-level security for impact level four and five data hosted in commercial cloud environments. •

Cloud Access Point (CAP) • Virtual Data Center Security Stack (VDM) • Virtual Data Center Managed Services (VDSS) • Trusted Cloud Credential Manager (TCCM).

RISK MANAGEMENT FRAMEWORK (RMF)

Provides a process that integrates security, privacy, and cyber supply chain risk management activities into the system development life cycle; a United States federal

government guideline, standard and process for risk management to help secure information systems developed by National Institute of Standards and Technology.

SD ELEMENTS

An expert system for application security, helps you to manage and mitigate cyber risks. Provides tailored security requirements, design advice, secure coding standards, and step-by-step testing instructions on how to build secure applications from the ground up.

SECULOIRE

Partnered with Booker DiMaio, a cybersecurity product company that provides 24/7/365 monitoring solutions to clients in public safety, local government, and beyond.

Low-Code Solutions

Booker DiMaio is skilled in working with Low-Code tools such as:

APPIAN

Low-code app development allows development teams and business users to build more applications (of any complexity



level) in less time than traditional coding. With a visual development environment, low-code applications can be drawn and configured instead of coded to exponentially speed development and maintenance. Appian is the Only Vendor to Receive this Distinction for Both Global & Large Enterprises.

KATALON

Leading low-code test automation solution for Web, API, Mobile, and Desktop apps; It is an automation testing software tool built on top of the open-source automation frameworks Selenium, Appium with a specialized IDE interface for web, API, mobile and desktop application testing.



APACHE NiFi

NiFi provides a drag n' drop interface that allows you to build data flows without writing code. NiFi is built around the concept of Processors, which are code modules that serve several different roles.

NiFi was built to automate the flow of data between systems. While the term 'dataflow' is used in a variety of contexts, we use it here to mean the automated and

managed flow of information between systems. This problem space has been around ever since enterprises had more than one system, where some of the systems created data and some of the systems consumed data.

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