



PLATFORM ONE

Compliance as Code for Big Bang

Risk Management Framework (RMF) Control Mapping to Accelerate
Department of Defense (DoD) Authorization to Operate (ATO)

Platform One
AFLCMC/HNCX

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Contents

- Why Platform One
- Why Big Bang
- Why OSCAL
- How OSCAL



Why Platform One



Platform One: Why, How, What

MISSION

Accelerate Secure Software Delivery for the DoD.

VISION

A collaborative Defense Department enabled by continuous delivery

Mission Apps



DevSecOps Platforms



DevSecOps Capabilities



Infrastructure



Secure &
Connect Users



Cloud Native Access Point provides **zero-trust security** for development, test, and production enclaves

Harden &
Store Components



DoD repository of **hardened binary container images** approved for DoD-wide use across enclaves

Build &
Deploy Platforms



Infrastructure as Code (IaC) and Configuration as Code (CaC) deployable to cloud or on-premise infrastructures

Code &
Operate Apps



DevSecOps Platform-as-a-Service at IL-2 to IL-4 accredited and managed by Platform One



Why Big Bang



3 Feb 2022 Continuous Authority to Operate (cATO)

- Issued by DoD Senior Information Security Officer
- Calls out specific guidance for cATO programs
 - Continuous Monitoring
 - Active Cyber Defense
 - Secure Software Supply Chain
- Big Bang is the Platform One starting point for a K8s-based platform that provides for Continuous Monitoring and Active Cyber Defense
 - Both inside Platform One, and used by third parties across the DoD as they wish



PLATFORM ONE
BIG BANG

Architecture & Tools

Customer Repos

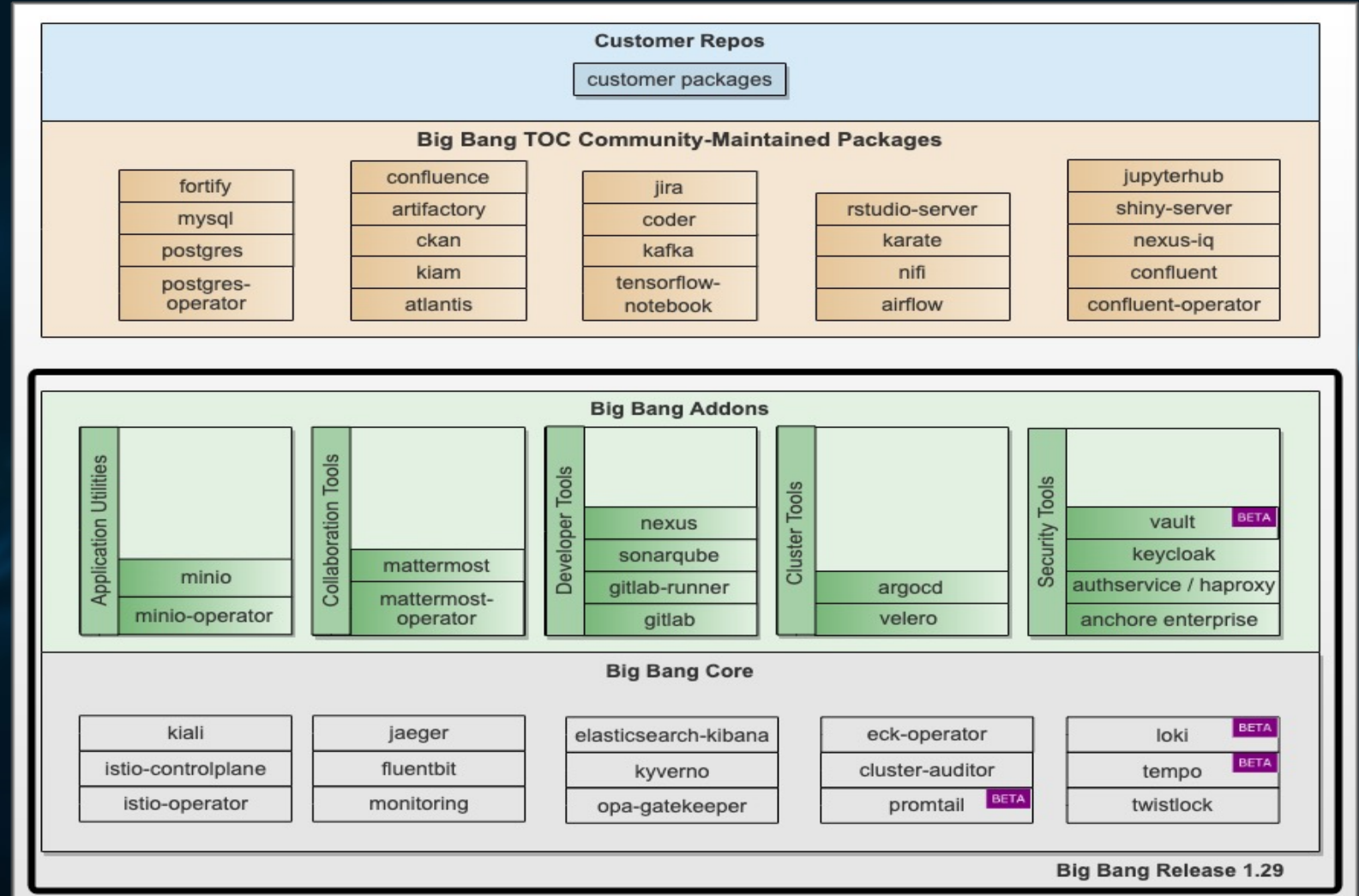
3rd Party Additions

Big Bang Addons

Big Bang Core

Vendor Cluster
(RKE2, OCP, Konvoy)

Infrastructure
(AWS, Azure, On-Prem)





Why OSCAL



The RMF/ATO "problem"

- Per GSA (18f):
 - "ATOs across government have traditionally taken 6-18 months, with a lot of slow back-and-forth between system owners and assessors."
- Within the DoD, the RMF *process* is synonymous with the *tools* used to track controls
 - Manually intensive effort between tool experts and system experts called out by GSA
- Particularly with the advent of cloud software, control inheritance is of particular interest



RMF as a Hurdle to Adoption

- Big Bang is being deployed in different development and production environments across different services, both on-prem and in the cloud
 - Different customers (deployers) use different systems to manage the RMF process
 - Customers need to know what controls are inherited from Big Bang
 - Cannot afford 18 months of control entry!
- Big Bang releases a new version every 2 weeks
 - Did the answers to different RMF controls change?
- Our Solution: Distribute OSCAL control list with every version
 - Always up to date with version, and hopefully it works across systems



OSCAL Demo

Questions?



Comments?

★ MISSION OBSESSED ★