Compliance as Code for Big Bang
Risk Management Framework (RMF) Control Mapping to Accelerate Department of Defense (DoD) Authorization to Operate (ATO)
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Why Platform One
Mission Apps

DevSecOps Platforms

DevSecOps Capabilities

Infrastructure

Cloud Native Access Point (CNAP) provides zero-trust security for development, test, and production enclaves.

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

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

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

MISSION
Accelerate Secure Software Delivery for the DoD.

VISION
A collaborative Defense Department enabled by continuous delivery.
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
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