Big Bang Overview

PLATFORM ONE

BIG BANG

What does BigBang provide?

- A Framework for deploying instances of a DevSecOps Platform for DoD commands who need to build and run mission applications.

  The BigBang Platform can receive a cATO by working with an AO (Authorizing Official), because it uses IronBank Container Images and is DSOP (DevSecOps Platform) reference architecture compliant.

What is BigBang?

BigBang is a Framework for deploying instances of a DevSecOps Platform

BigBang is:

- An Umbrella Helm Chart that leverages IronBank Container Images
- installed on a pre-existing Kubernetes Cluster
- It's installed and managed using GitOps and Infrastructure as Code
- An instance of BigBang is a DevSecOps Platform that can build and host apps

Bring your own Cluster:

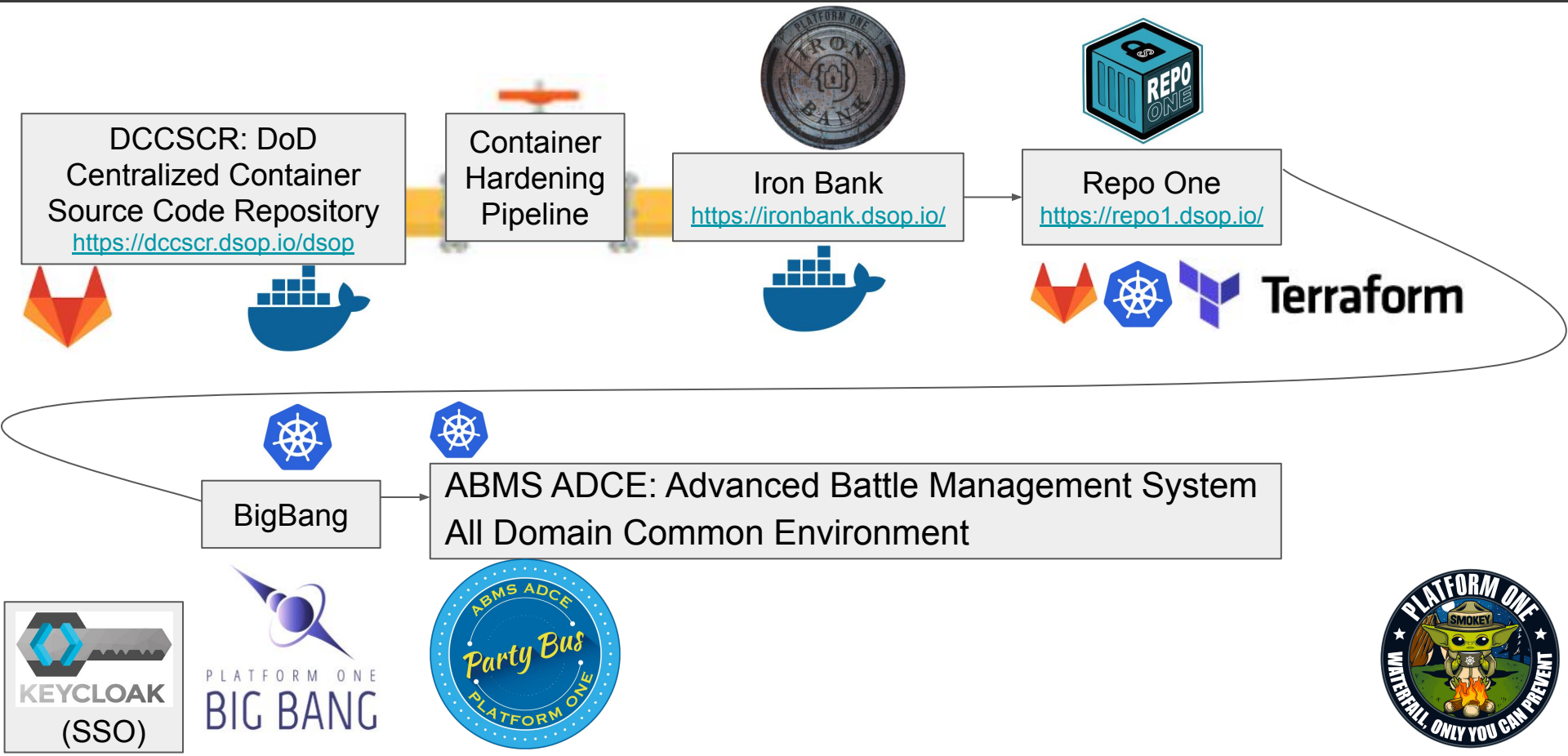
BigBang is installed on a pre-existing Kubernetes Cluster:

- We have docs to help customers make an informed decision: https://confluence.il2.dsop.io/display/BB1/KubeDistro+Decision+Generic+Customer+ADR

- P1 hosts Infrastructure as Code for Kubernetes Clusters: https://repo1.dsop.io/platform-one/distros

- P1 can connect customers with vendors and staff augmentation who can help with this prerequisite.

How the P1 Services Fit Together



Visualization of Big Bang

Customer A's Clusters

Internet Connected Environment
Highest Automation and BB Support
IaC/CaC hosted on Repo1

Dev

Mock Air Gapped Environment
High Automation and BB Support
IaC/CaC hosted on Repo1

Stage

Air Gapped Environment
Semi Automation, less* BB Support
IaC/CaC hosted in Customer's Env

Prod

Customer B's Clusters

Mission App 1 (Prod)

Mission App 2 (Prod)

Customer C's Clusters

Dev / CICD Software Factory

Stage

Prod (multiple mission apps)

What applications are in a BigBang Cluster?

https://repo1.dsop.io/platform-one/big-bang/apps

P

Packages

Group ID: 4366

Collection of kubernetes applications bundled as Kpt packages

Subgroups and projects Shared projects Archived projects

Search by name

- S **Sandbox**
  Packages which are not (yet) supported by Big Bang
- A **Application Utilities**
  Applications that provide utility for other applications to consume (PostgreSQL, MinIO, etc...)
- S **Security Tools**
- D **Developer Tools**
- C **Collaboration Tools**
- C **Core**
  Core DSOP Reference Architecture applications

How do I get started? Where can I find out more?

BigBang's being Open Sourced:
https://repo1.dsop.io/platform-one/big-bang/apps
https://repo1.dsop.io/platform-one/big-bang/umbrella

Licensing Info can be found on Confluence:
https://confluence.il2.dsop.io/display/BB1/Licensing+information

P1's BigBang Onboarding Webpage:
https://p1.dsop.io/#/products/big-bang/onboarding
- Jira Service Desk flow allows signing up for Workshop or Residency
- Confluence FAQS
- Both require creating an account (need .mil or a validated email domain)