



GRAVITY

Overview

Presented by



Laura Rodriguez – Program Manager
Office of the Deputy Chief of Space
Operations
for Cyber and Data (S6)

Gordon Deng – Portfolio Lead
AFRL/RVSX “Orbital Labs”



The Agenda

- 01 Mission
- 02 Why?
- 03 Target Tenants
- 04 Onboarding
- 05 Capabilities
- 06 Gravity Applications
- 07 Roadmap



GRAVITY

01 Mission

We provide a **secure, affordable, and accredited platform** with **personalized service to USSF**.

We optimize costs with a customer-first approach so teams can focus on providing value to the warfighter.



GRAVITY

02 Why?

Past



Sep 2020



{BB} Big Bang

A repository of components enabling organizations to build their own Platform.

Jun 2021



GRAVITY

*Created for **USSF** based on Big Bang*

03 Target Tenants

For Teams that want to focus on coding

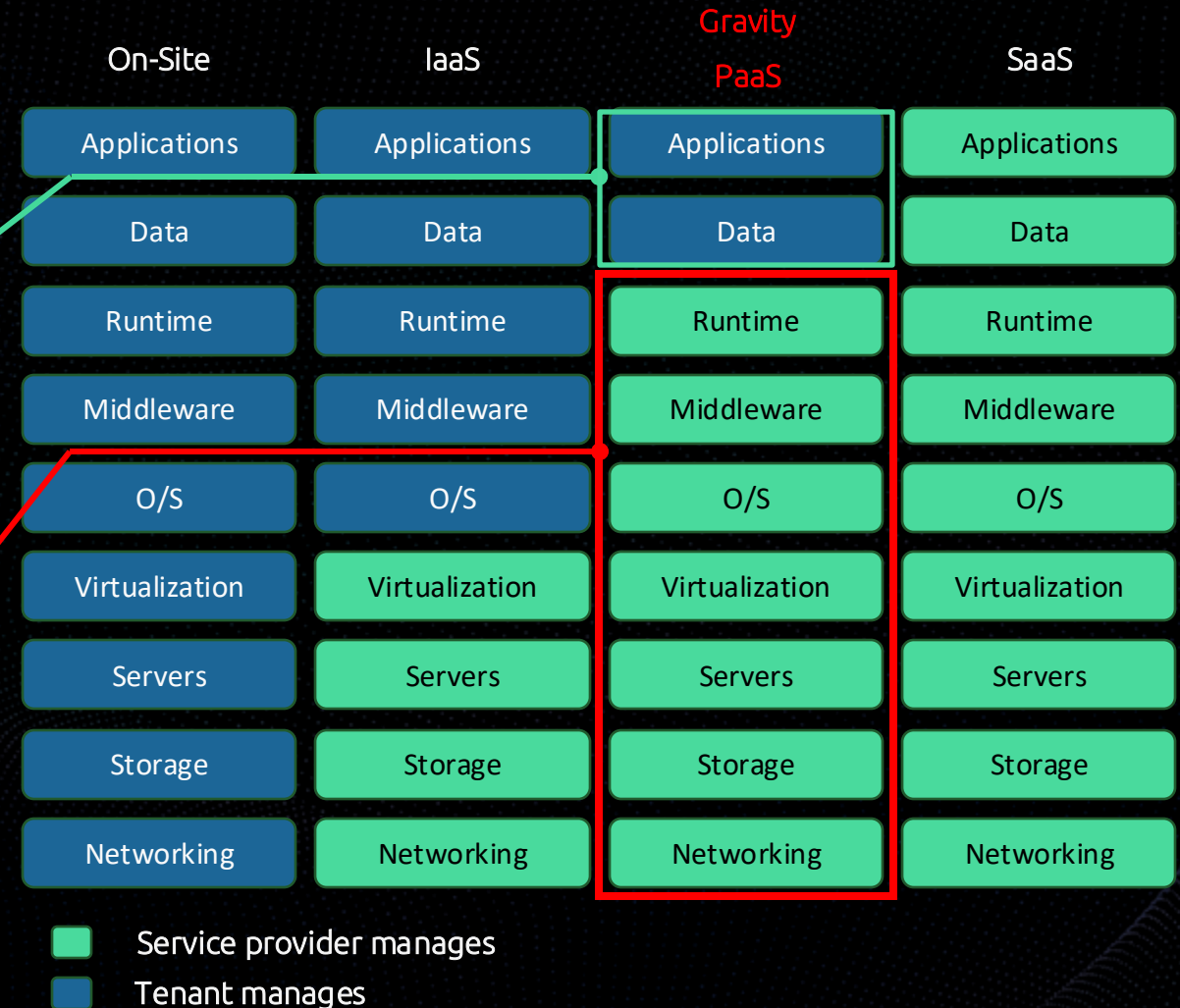
- Tenant Responsibility

- Code repository
- End-users
- Data

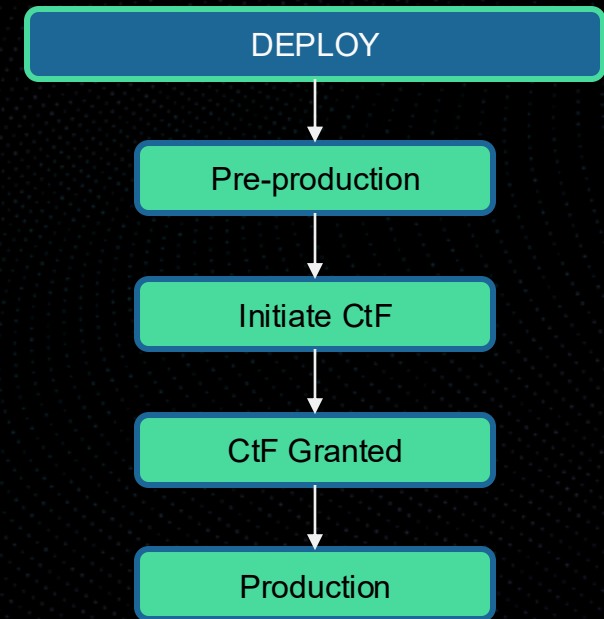
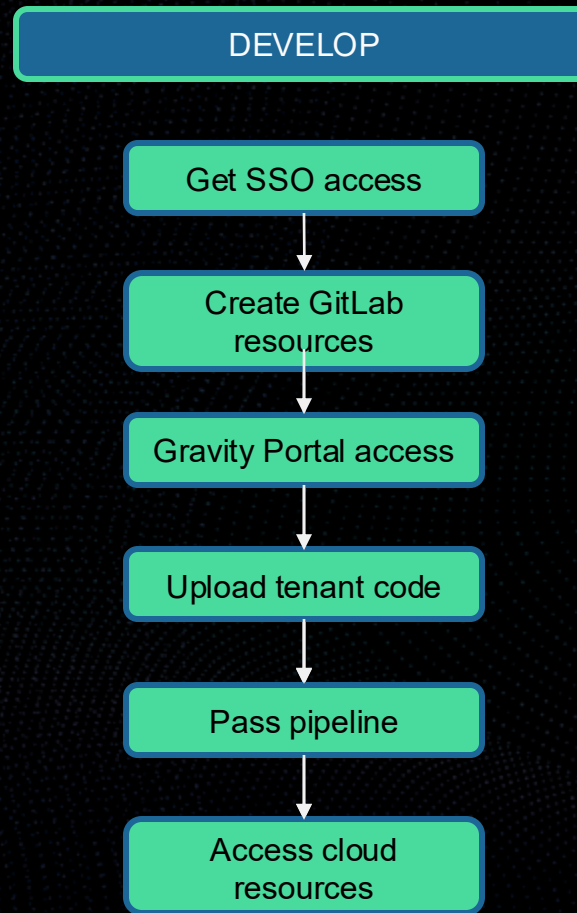
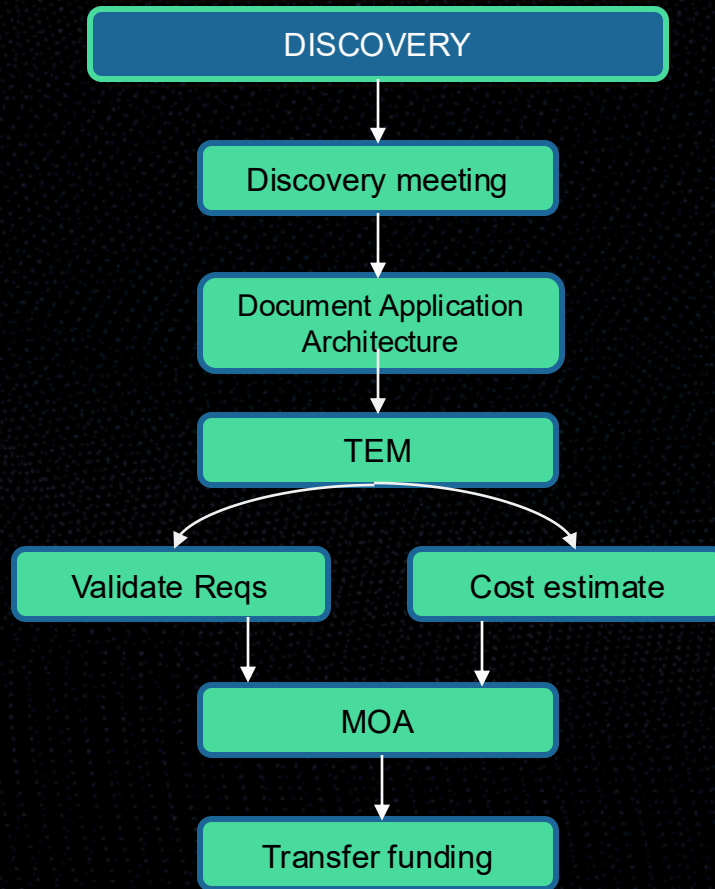
- Gravity Responsibility:

- Infrastructure
- Cloud resources
- Security
- Accreditation

Shared Responsibility Model



04 Onboarding



05 Capabilities

What tenants get.....

- **Tenant Portal**

- Automated onboarding
- Advanced starter apps
- Knowledge base
- Cost-estimator
- Help Desk

- **Optimized for Performance**

- Fast Pipeline Runtime (<10 mins)
- Growing language support: JS, Java, Python, Go, C#, PHP
- Highly-reliable AWS managed Architecture
- Self-service Tools

- **Classifications**

- Unclassified
- CUI - pending AO approval.
- Classified - DAF Cloudworks reciprocity
 - Code low / deploy high



GRAVITY



GRAVITY

06 Tenants

- **COMET – Del 8 (CtF)**: Crew scheduling to the operators in SpOC allowing all units to use a unified crew scheduling solution.
- **Guardian One – S6 (CtF)**: Designed to serve as the North Star for all USSF personnel and potential recruits.
- **Space Portal – S6 (CtF)**: Official USSF home portal access to guardian resources.
- **TRACER – STARCOM**: User tracking, mission scheduling, and resource deconfliction and Supra Coder sandbox.
- **AMS – SSC/SZQI**: Provides computing, data processing, storage, and networking capabilities. Analyze data to assess mission-failure risks.
- **Uplink – STARCOM (CtF)**: USSF social media tool.
- **Beowulf – SSC/SNSR (CtF)**: SSC/SNSR tactical SRT tool.
- **Decon+ - SSC/SZBN (CtF)**: Register lasers, predictive avoidance.
- **SpaceWiki – Del 10 (CtF)**: Living knowledge base for the USSF and joint forces.
- **eForms - SSC/ACO**: Order 66 (Atlas Web Dev). Automated form processing; moves all current Sharepoint forms on pdf signing, tracking, and archiving to an all inclusive in-app solution.



07 Roadmap

FY25

- *Scan external images
- *Jira/Confluence
- *Self-service secrets manager
- *Self-service Cost Estimate
- CUI environment
- Independent Authentication

* Completed

FY26

- Self-service onboarding enhancements
- Self-service CtF
- Static site hosting
- Virtual Development Environment
- Self-service Cloud Cost tracker



GRAVITY

Demo

Questions

Contact Gravity

Gravity Portal: <https://gravity.spaceforce.mil>

<https://spacecamp.dso.mil/#/platform>

Org Box: sf.gravity.help@spaceforce.mil

