VA Enterprise Cloud (VAEC)
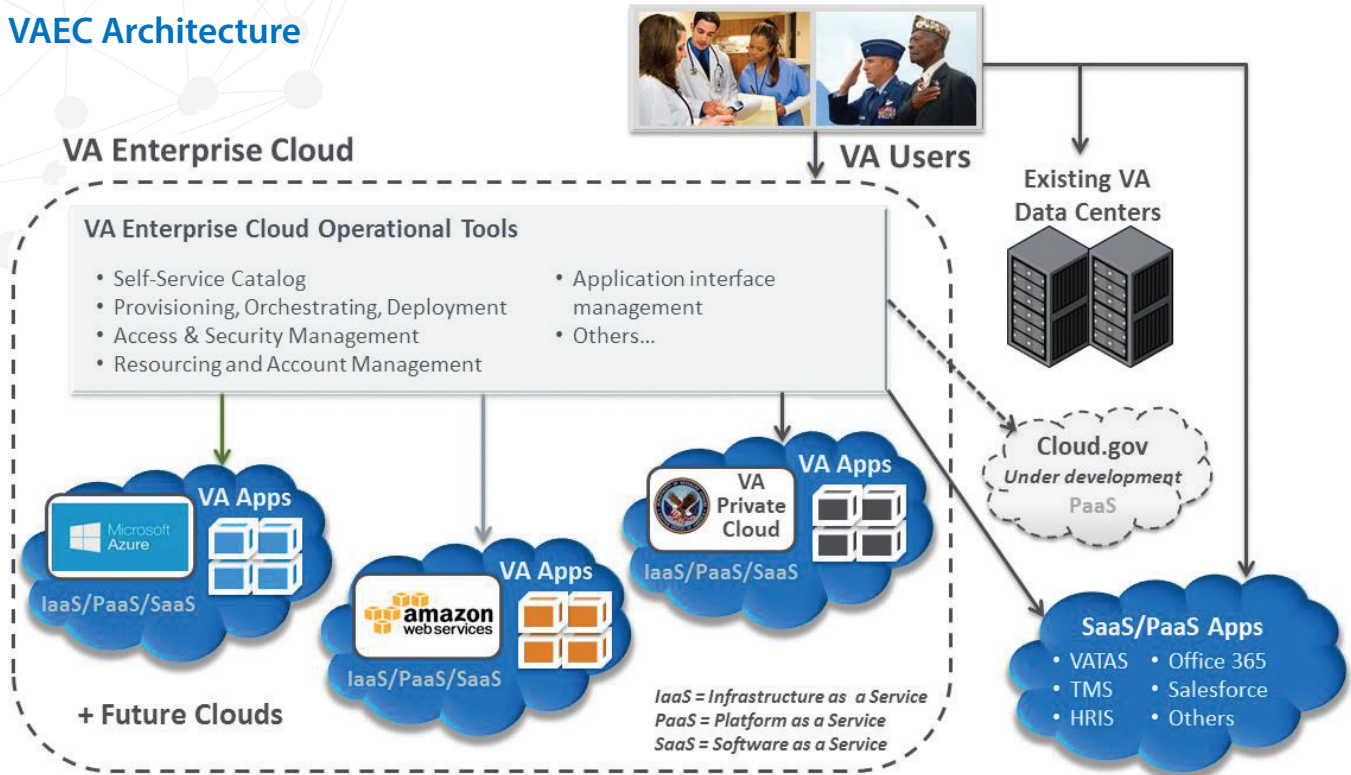
OIT has developed a multi-vendor platform to enable project teams to rapidly develop and deploy VA cloud applications
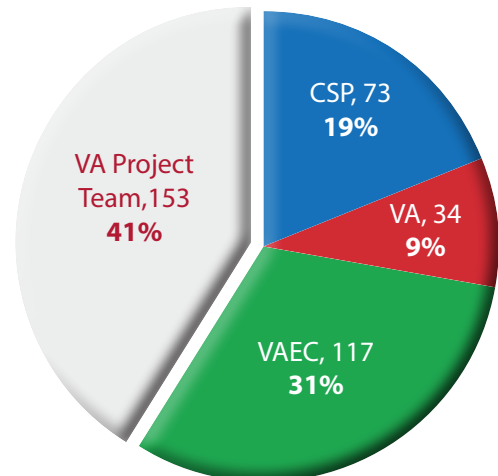
VA ENTERPRISE
CLOUD SOLUTIONS

VAEC Architecture

VA Enterprise Cloud

VA Enterprise Cloud Operational Tools
- Self-Service Catalog
- Provisioning, Orchestrating, Deployment
- Access & Security Management
- Resourcing and Account Management
- Application interface management
- Others...

Microsoft Azure — VA Apps — IaaS/PaaS/SaaS
amazon web services — VA Apps — IaaS/PaaS/SaaS
VA Private Cloud — VA Apps — IaaS/PaaS/SaaS

+ Future Clouds

IaaS = Infrastructure as a Service
PaaS = Platform as a Service
SaaS = Software as a Service

VA Users

Existing VA Data Centers

Cloud.gov *Under development* PaaS

SaaS/PaaS Apps
- VATAS
- TMS
- HRIS
- Office 365
- Salesforce
- Others

Capabilities Offered

- The initial offering includes Microsoft Azure and Amazon Web Services (AWS) at the HIGH FedRAMP impact level
- Cloud.gov, hosted by GSA, is under development for LOW and MODERATE impact level, PaaS applications
- A sandbox for testing and "kicking the tires" is available today for Azure and AWS and coming soon for Cloud.gov
- The combination of the Cloud Service Provider (CSP), VA and the VAEC will address approximately 60% of FedRAMP High Controls (see right). Your project-specific controls responsibilities may be different
- A rich toolkit of services is available to speed development and simplify support (see back)
- VAEC applications can leverage an existing, high-bandwidth, redundant, TIC-compliant connection
- Using VAEC facilitates an expedited Enterprise Security Change Control Board (ESCCB) approval process for projects using baseline connectivity

Sample HIGH Baseline Breakdown of FedRAMP Controls Responsibility

- CSP, 73 — **19%**
- VA, 34 — **9%**
- VAEC, 117 — **31%**
- VA Project Team, 153 — **41%**

Note: The HIGH baseline has 359 controls. 18 of these controls are hybrid and have shared responsibility with the Project Team, VA or VAEC.

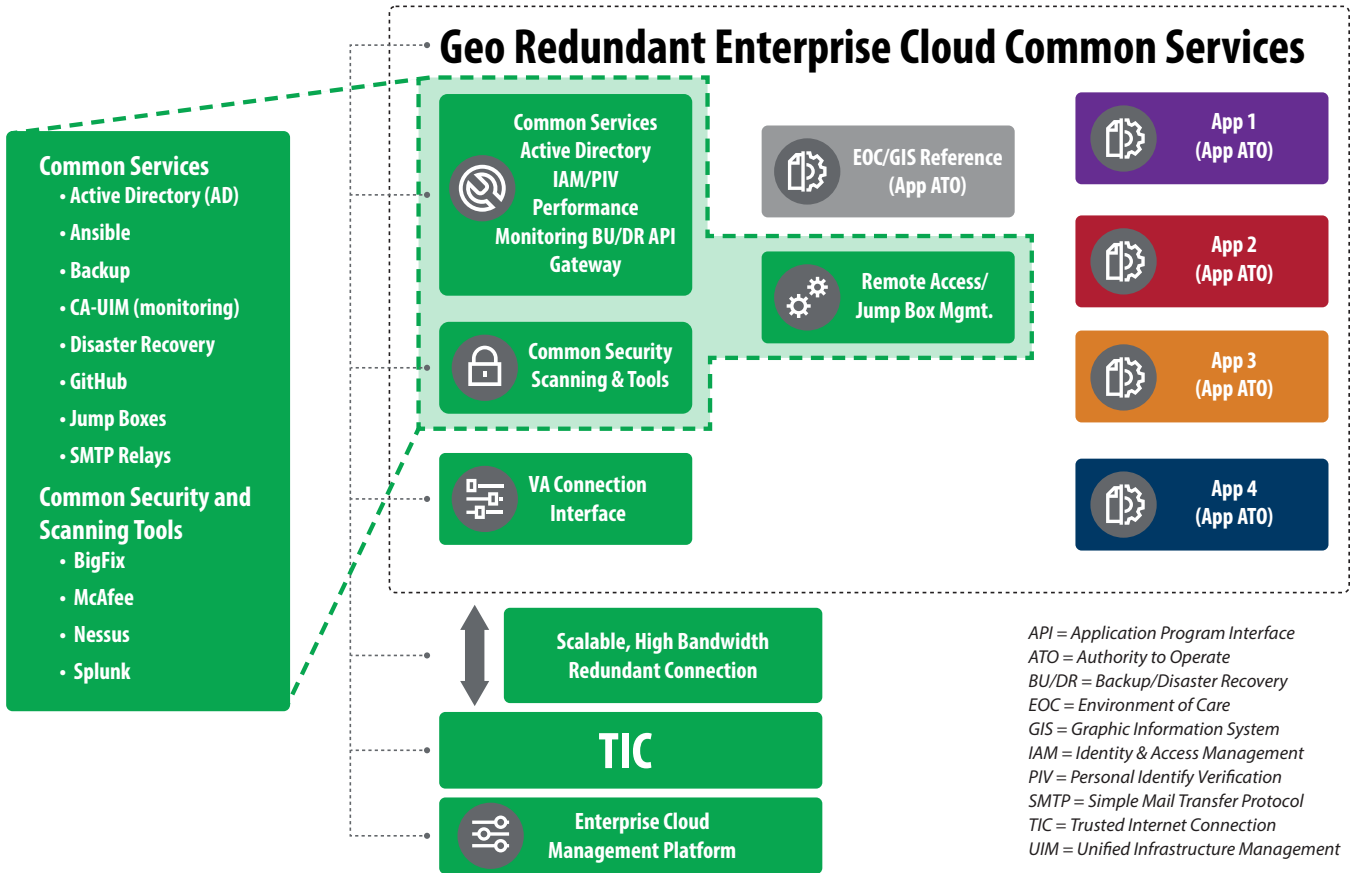**VA | U.S. Department of Veterans Affairs**
Office of Information and Technology

VA Enterprise Cloud (VAEC)

General Support Services v1.0

Geo Redundant Enterprise Cloud Common Services

- Common Services Active Directory IAM/PIV Performance Monitoring BU/DR API Gateway
- EOC/GIS Reference (App ATO)
- Remote Access/ Jump Box Mgmt.
- Common Security Scanning & Tools
- VA Connection Interface
- App 1 (App ATO)
- App 2 (App ATO)
- App 3 (App ATO)
- App 4 (App ATO)

Common Services
- Active Directory (AD)
- Ansible
- Backup
- CA-UIM (monitoring)
- Disaster Recovery
- GitHub
- Jump Boxes
- SMTP Relays

Common Security and Scanning Tools
- BigFix
- McAfee
- Nessus
- Splunk

- Scalable, High Bandwidth Redundant Connection
- **TIC**
- Enterprise Cloud Management Platform

API = Application Program Interface
ATO = Authority to Operate
BU/DR = Backup/Disaster Recovery
EOC = Environment of Care
GIS = Graphic Information System
IAM = Identity & Access Management
PIV = Personal Identify Verification
SMTP = Simple Mail Transfer Protocol
TIC = Trusted Internet Connection
UIM = Unified Infrastructure Management

How to Get Started Checklist

❑ Fill out the ECSO Request Form and participate in an Intake meeting with the Enterprise Cloud Solutions Office (ECSO) team
- Receive the ECSO Information Guide
- Discuss funding requirements
- Review acquisition options and receive guidance
- Set up sandbox accounts

❑ Sign up for training if needed (see the ECSO Portal Learning page for a list of cloud-related courses available on TMS)

Other Resources Available

- To request an EDE Azure sandbox for your project, email the VA EDE Azure Labs Team at vaedeazurelabsteam@va.gov
- To request an AWS sandbox for your project, start by setting up a VHA Future Technologies user account at https://help.vaftl.us
- AWS and Azure architecture diagrams
- An AWS Calculator and an Azure Calculator are available from the vendors to provide a starting point for cost estimation
- Email VAEC or other cloud questions to VAITECIntakeMailbox@va.gov

U.S. Department of Veterans Affairs
Office of Information and Technology