

Architecture

Dynatrace for Government

Dynatrace Training Module



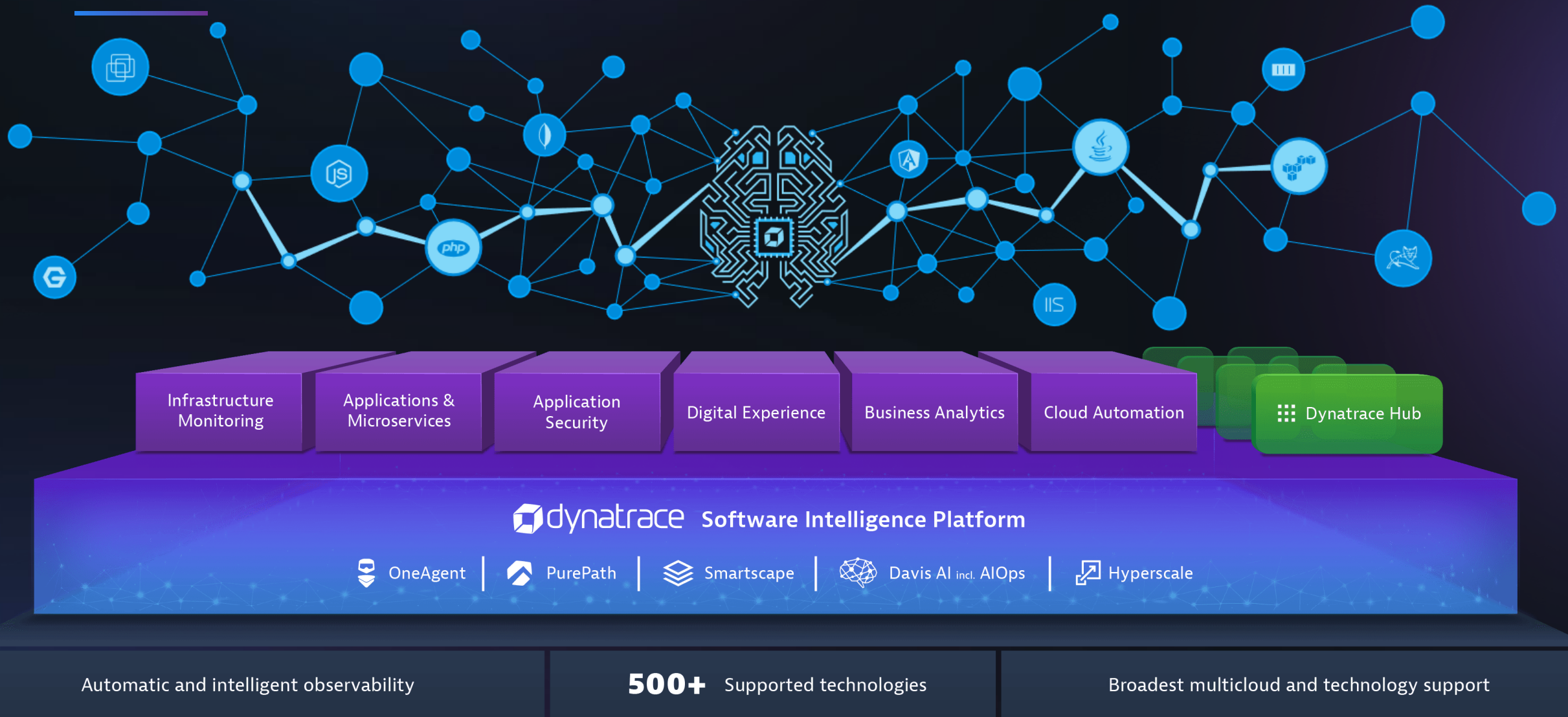
Agenda

- Dynatrace Capabilities Overview
- Dynatrace Offerings
 - Dynatrace for Government vs SaaS vs Managed
- Dynatrace for Government Architecture

What is Dynatrace?



What is Dynatrace?



Deploying software and getting the best of both worlds

SaaS

We provide the service, you just use it.

Benefits

- No local installation
- No worries about hardware provisioning backups and data storage
- No monitoring/operator needed

Concerns

- Compliance
- Bandwidth consumption



On Premises

We provide the software, you run it.

Benefits

- Full control of data

Concerns

- System administrators need to support it: troubleshooting, patching, upgrading, backup, monitoring, failover



Deploying software and getting the best of both worlds

DT for SaaS Government

We provide the service, you just use it.

We provide the service, you just use it.

Benefits

- No local installation
- No worries about hardware provisioning backups and data storage
- No monitoring/operator needed
- Compliance

Concerns

- Bandwidth consumption



On Premises Managed

We provide the software, you run it.

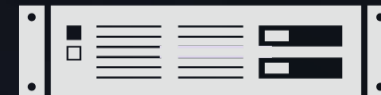
You provide the platform, we manage the service.

Benefits

- Full control of data
- Self monitoring built-in
- No worries about patching, upgrading, troubleshooting, monitoring or failover

Concerns

- System administrators need to support it: troubleshooting, patching, upgrading, backup, monitoring, failover



Deploying software and getting the best of both worlds

DT for Government

We provide the service, you just use it.

- No local installation
- No worries about hardware provisioning backups and data storage
- No monitoring/operator needed

Concerns

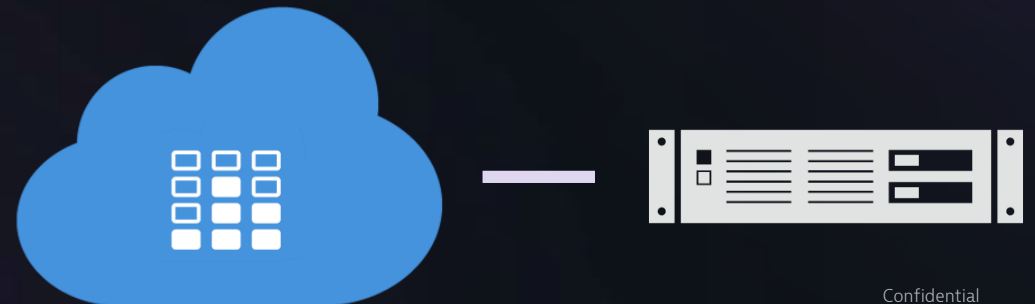
- Bandwidth consumption



Managed

You provide the platform, we manage the service.

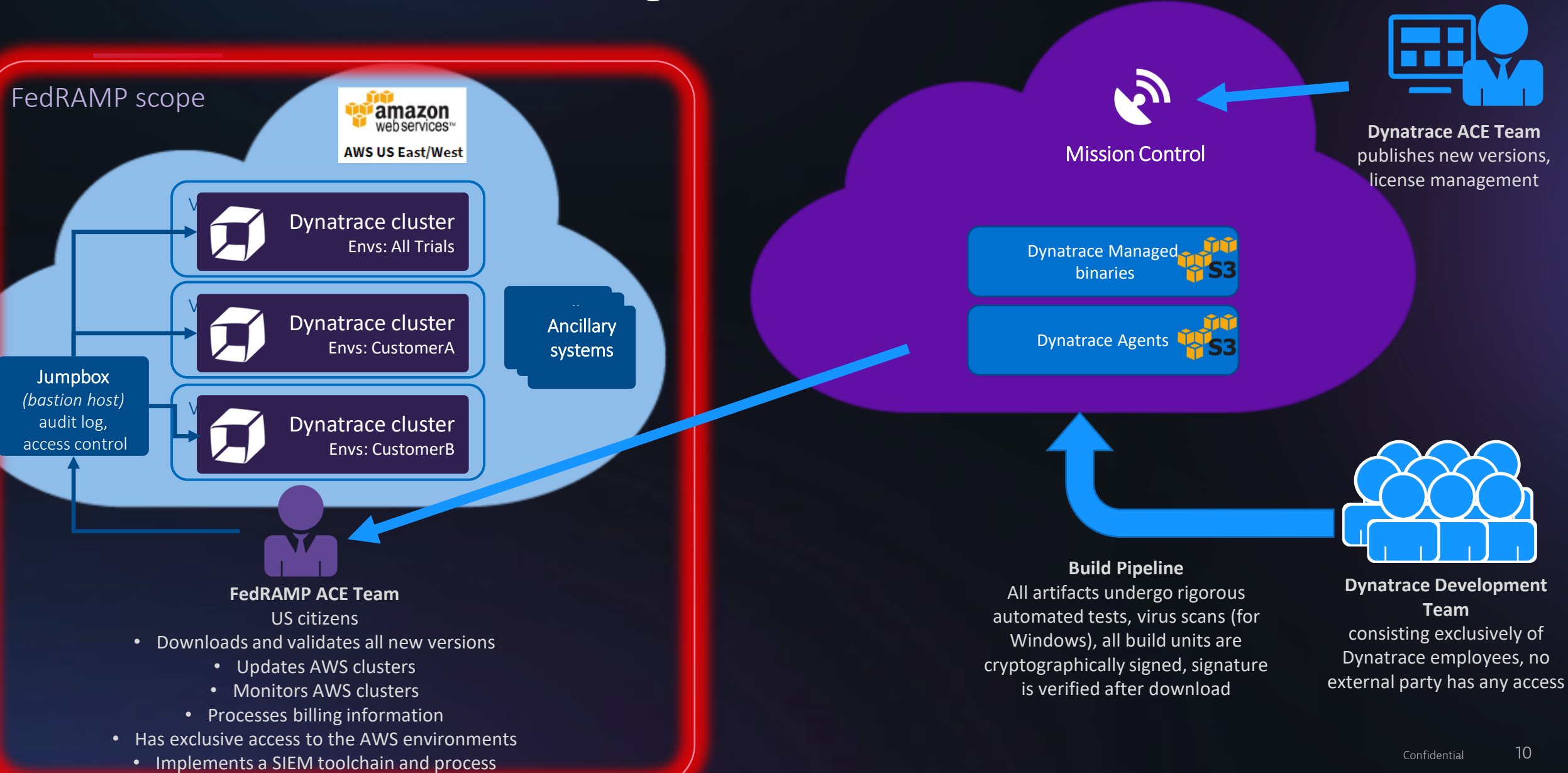
- Full control of data
- Self monitoring built-in
- No worries about patching, upgrading, troubleshooting, monitoring or failover



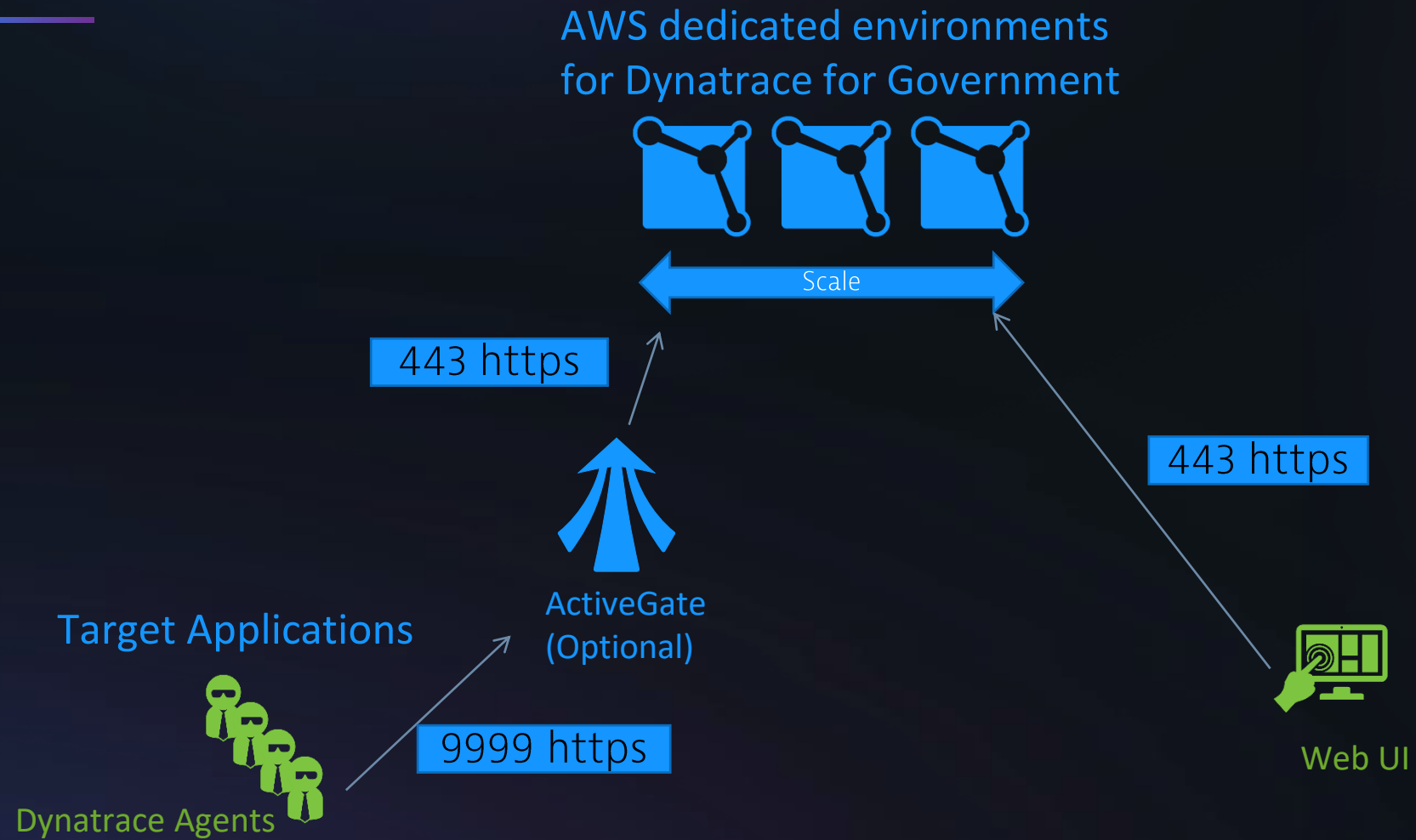
Dynatrace for Government

Dynatrace for Government Architecture

(a FedRAMP-certified, isolated SaaS offering)



Ports - SaaS



Storage and Retention - Dynatrace for Government

- Code Level and Performance data
 - Service Requests – 35 days (can be adjusted)
 - Service Code Level – 10 days (can be adjusted)
- Time Series
 - 1 minute intervals – 14 days
 - 5 minute intervals – 28 days
 - 1 hour intervals – 400 days
 - 1 day intervals – 5 years
- RUM
 - Sessions and User Actions – 35 days (can be adjusted)
 - Session Replay – 35 days
 - Waterfall analysis– 10 days (can be adjusted)
- Synthetic
 - Transactions – 35 days (can be adjusted)



Tooltips provide info on where data is coming from

Updates

- The components are updated on the schedules below:
- SaaS Cluster
 - Every 4 weeks (automatic)
- OneAgent
 - Every 4 weeks (optional)
 - OneAgent versions are supported for 9 months (12 months with Premium support)

Environments

What is a monitoring environment?

- Dynatrace environments contain all of the monitoring data
- It is an independent instance (tenant) where root cause analysis and fault domain isolation take place
- Your monitoring tenant is where Dynatrace OneAgent sends its monitoring data
- It also includes the dashboards, charts, and reports that you use to stay on top of your environment's performance
- Think of your monitoring environment as the analysis server that provides all application performance analysis

Multiple Environments

- Generally it is best to have one environment.
- For usability purposes or licensing there may rise a need to have multiple DT environments
 - Sample use cases:
 - To separate Prod from Non-Prod
 - Security or process and procedure requirements
 - Custom data retention periods
 - To handle license allocation
- Agent Deployment
 - Every environment has its own agent (preloaded configurations)
 - Make sure to obtain the deploy script from the specific environment (Dynatrace Hub)
- Navigating between the multiple environments
 - Navigating between different environments can be done by clicking on the Top Right Menu and selecting the environment name

How many Environments do I need?

Dynatrace Component	Level	Use Cases	Control User Access	Cross Transaction Monitoring
Environment	1	<ul style="list-style-type: none"> License Quotas Control access to global Settings (typically used to limit configuration access for Prod) 	Yes (per User Group)	No
Host Group	2	<ul style="list-style-type: none"> Separate processes into logical groupings Pass in additional metadata for tagging/naming 	No	Yes
Management Zone	2	<ul style="list-style-type: none"> Separate Applications, Services, and resources into logical groupings (used in combination with Host Groups) Control edit access to individual entities Filter a single tile or an entire Dashboard Global filtering of the data Filter Alert notifications 	Yes (per User Group)	Yes
Tag	2	<ul style="list-style-type: none"> Filter a single tile on a Dashboard Advanced filtering Filter Alert notifications 	No	Yes

Security

Security

- FedRAMP Moderate Authorization
- Our security measures include best practices such as firewalls and regular security updates
- We also perform regular security scans and vulnerability assessments using external parties
- Dynatrace benefits from Amazon's secure, world-class data centers
- Our security team relies on industry best practices, such as:
 - Encrypted transmissions, cross-site scripting prevention, protection against code or SQL injection, hardening against DoS attacks, firewalls, regular security updates, security scans, and vulnerability assessments to ensure the security of your data
- The OneAgent undergoes continuous and extensive penetration testing and expert security reviews
- All communication between Dynatrace OneAgent and Dynatrace Cluster is handled over secure socket https communication (port 443) with strong cryptography, to guarantee your data privacy
- Metric and transaction data are encrypted even while at rest, and each customer's data are programmatically partitioned from each other customer's data

SOC 2 Type II certified

- Dynatrace has received SOC 2 Type II certification for security and availability



- View our publically available [SOC 3 Report](#) to learn more about Dynatrace adherence to the Security and Availability Service Organization Controls 3 (SOC 3) Criteria established by the American Institute of Certified Public Accountants (AICPA)

Questions?



Simply smarter clouds