

carahsoft®

DevSecOps Conference

August 17, 2023





PLATINUM



GOLD



SILVER



BRONZE



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Welcoming Remarks



Francis Rose

Host & Co-Founder

Fed Gov Today



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Keep/Start/Stop: Retro on a Decade of DSO



Paul Puckett
Chief Executive Officer
Clarity Innovations





Start, Stop, Continue



START

List of ideas to
start doing.



STOP

List of ideas to
stop doing.

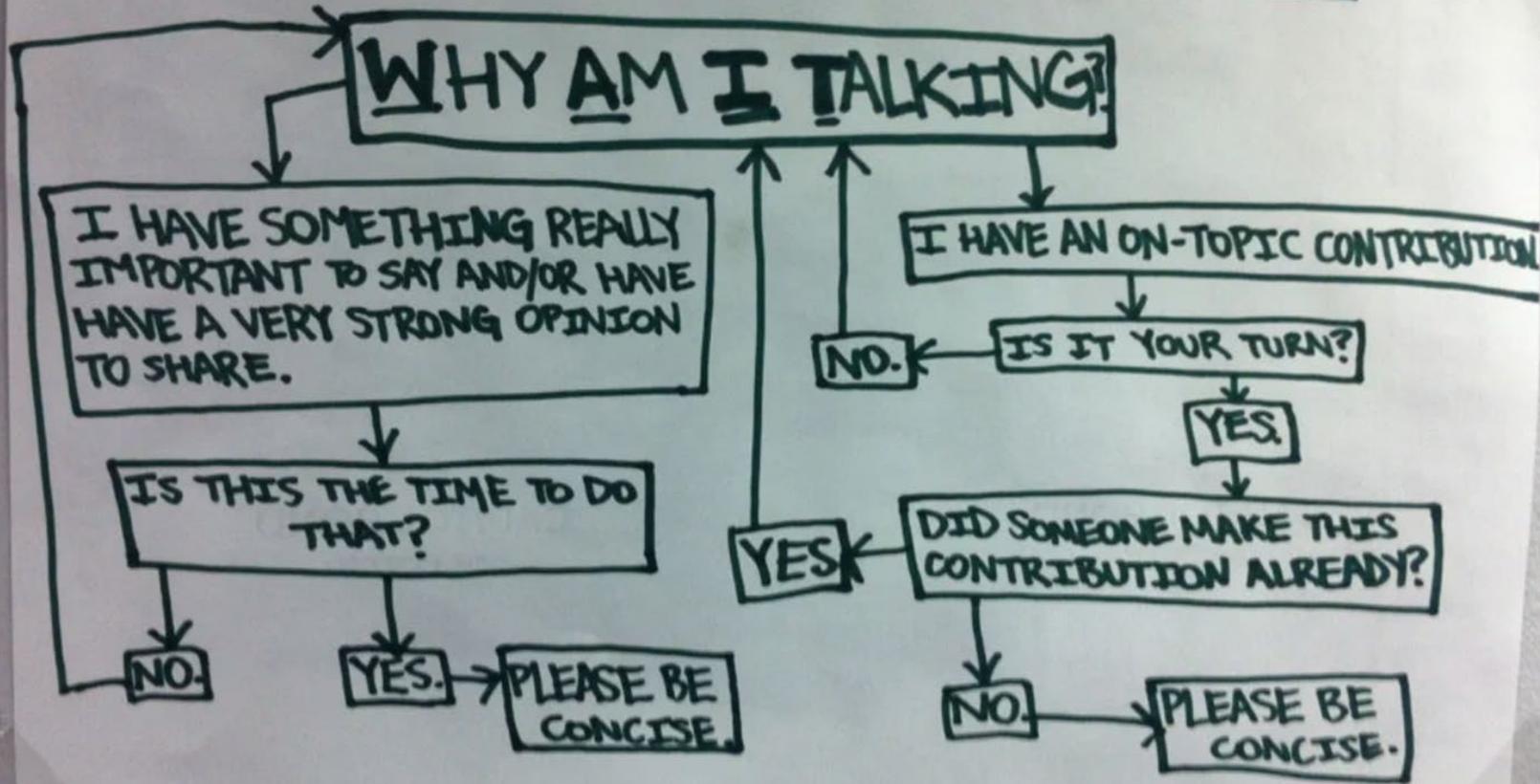


CONTINUE

List of ideas adopt
more widely.

W.A.I.T.

CONSIDER THIS QUESTION BEFORE YOU BEGIN.





KEEP BAHRAIN CLEAN

DO NOT SPIT



Every person on the team is a **vector**.



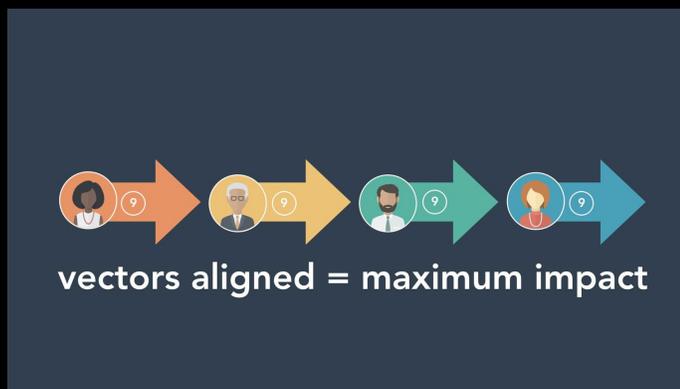
Your progress is
determined by the
sum of all vectors.



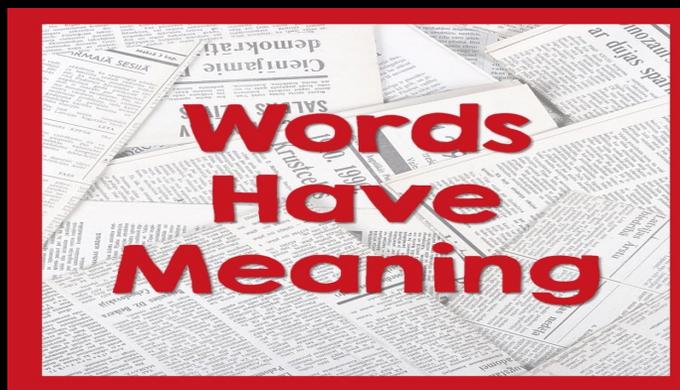
If we want to go from



To



Then we need to agree





DevSecOps -

A methodology in which development, cybersecurity and IT operations teams are mutually incentivized in their cultures, practices, tooling, and processes



DevSecOps -

A methodology in which development, cybersecurity and IT operations teams are mutually incentivized in their cultures, practices, tooling, and processes **in order to continuously field business value**, often in the form of software, without sacrificing quality, stability, or security.



What business are you really in?



Defining DSO in context of
the outcome - the mission





Defining DSO in context of
the outcome - the mission



Defining DSO about CI/CD
or technology products

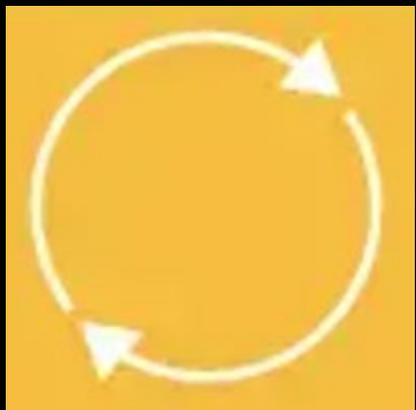




Defining DSO in context of the outcome - the mission



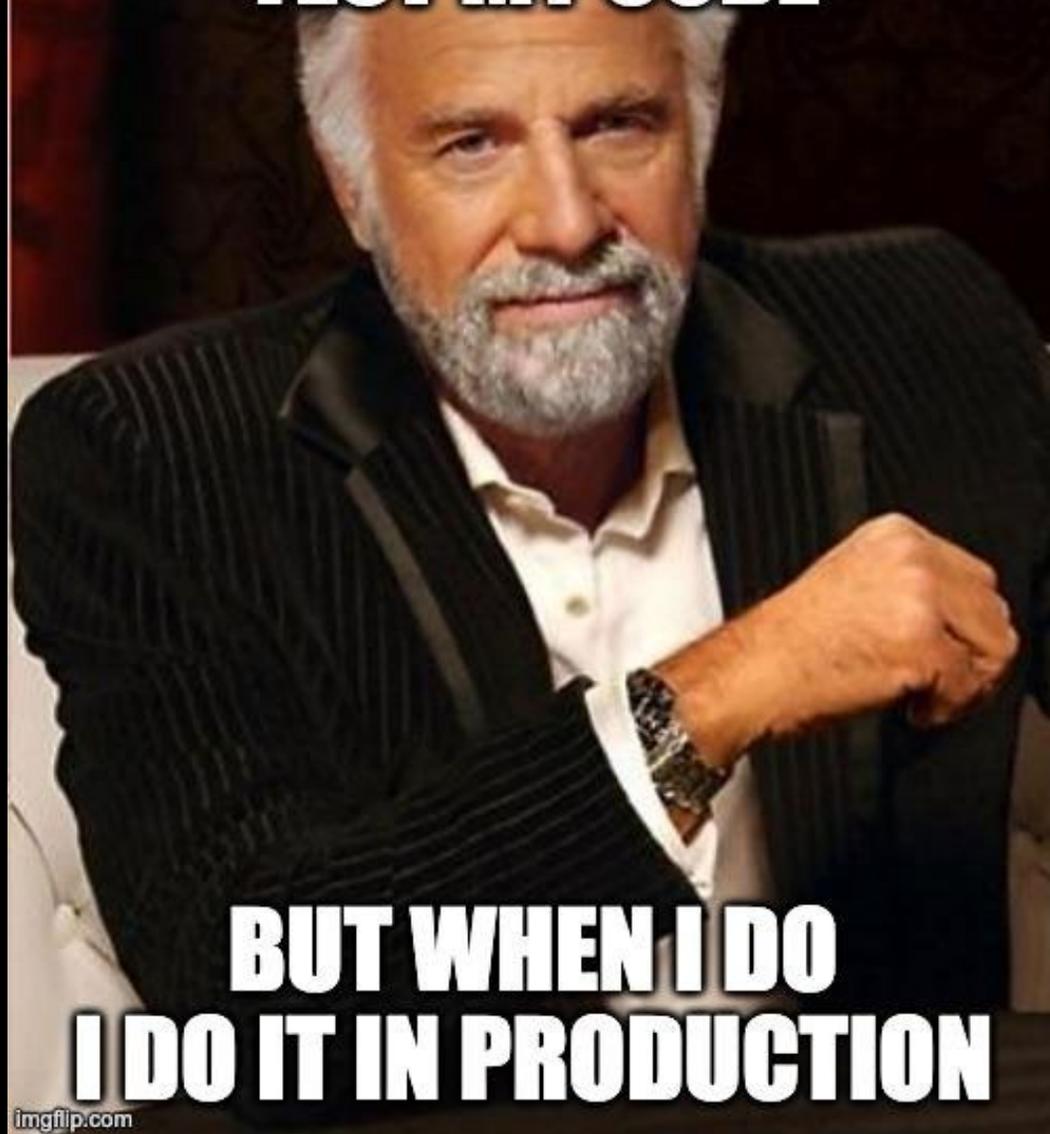
Defining DSO about CI/CD or technology products



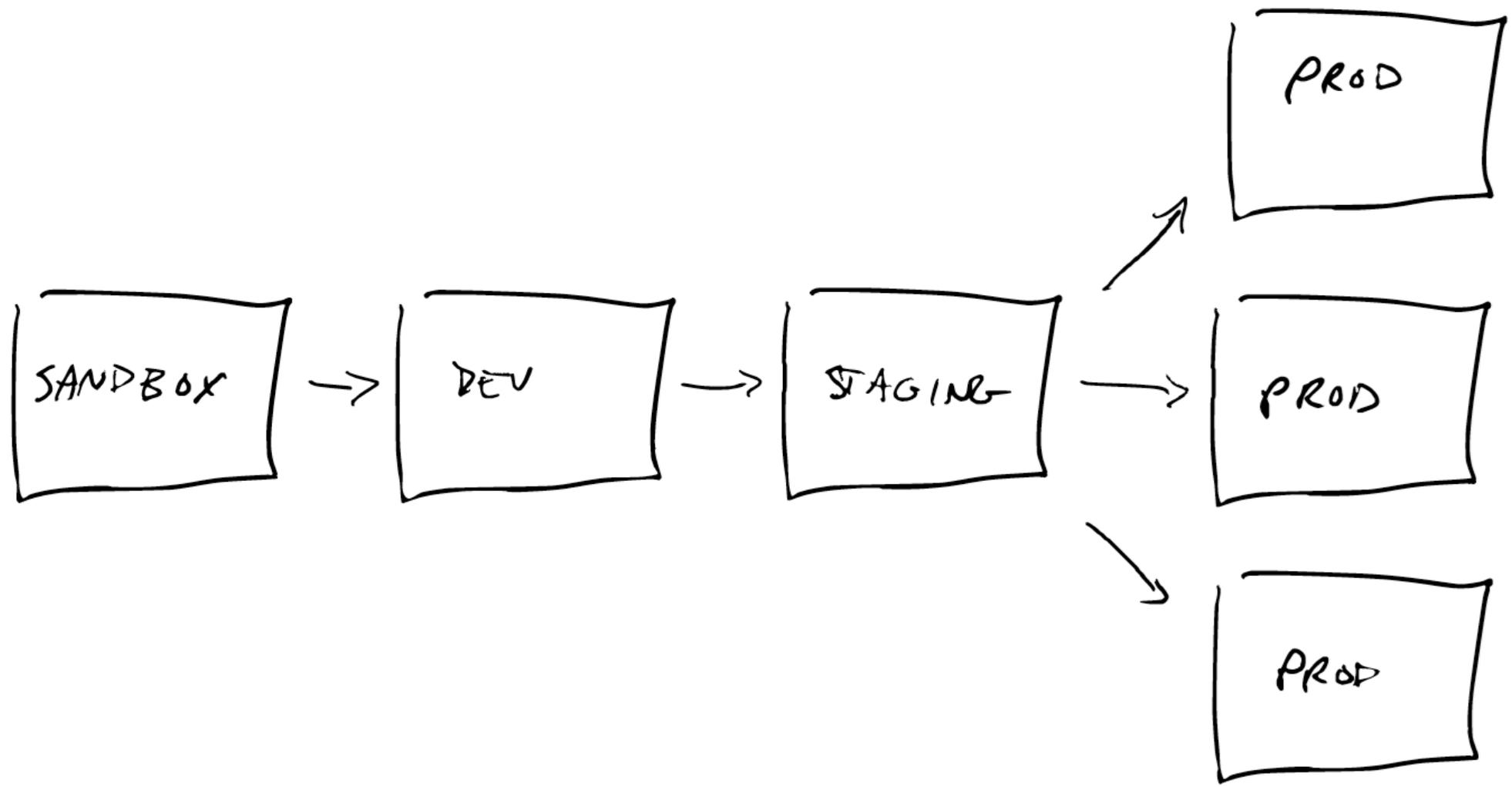
Aligning on definitions so we are all starting together



**I DONT ALWAYS
TEST MY CODE**

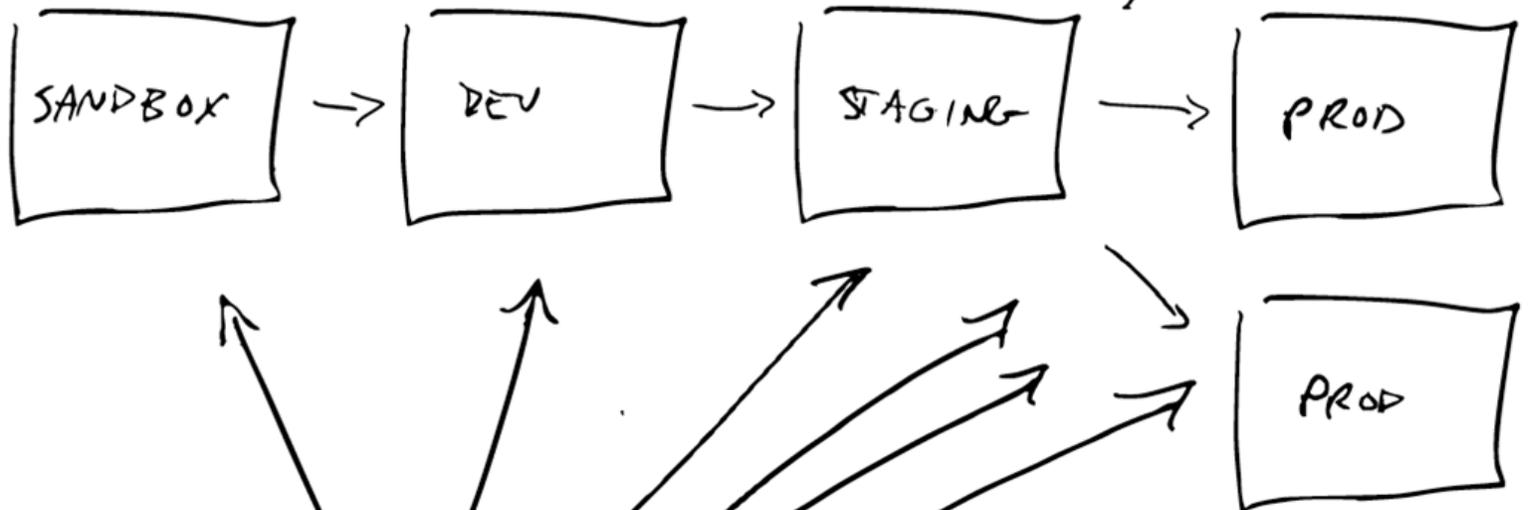


**BUT WHEN I DO
I DO IT IN PRODUCTION**





APP



PLATFORM





Every developer facing service is a
production environment

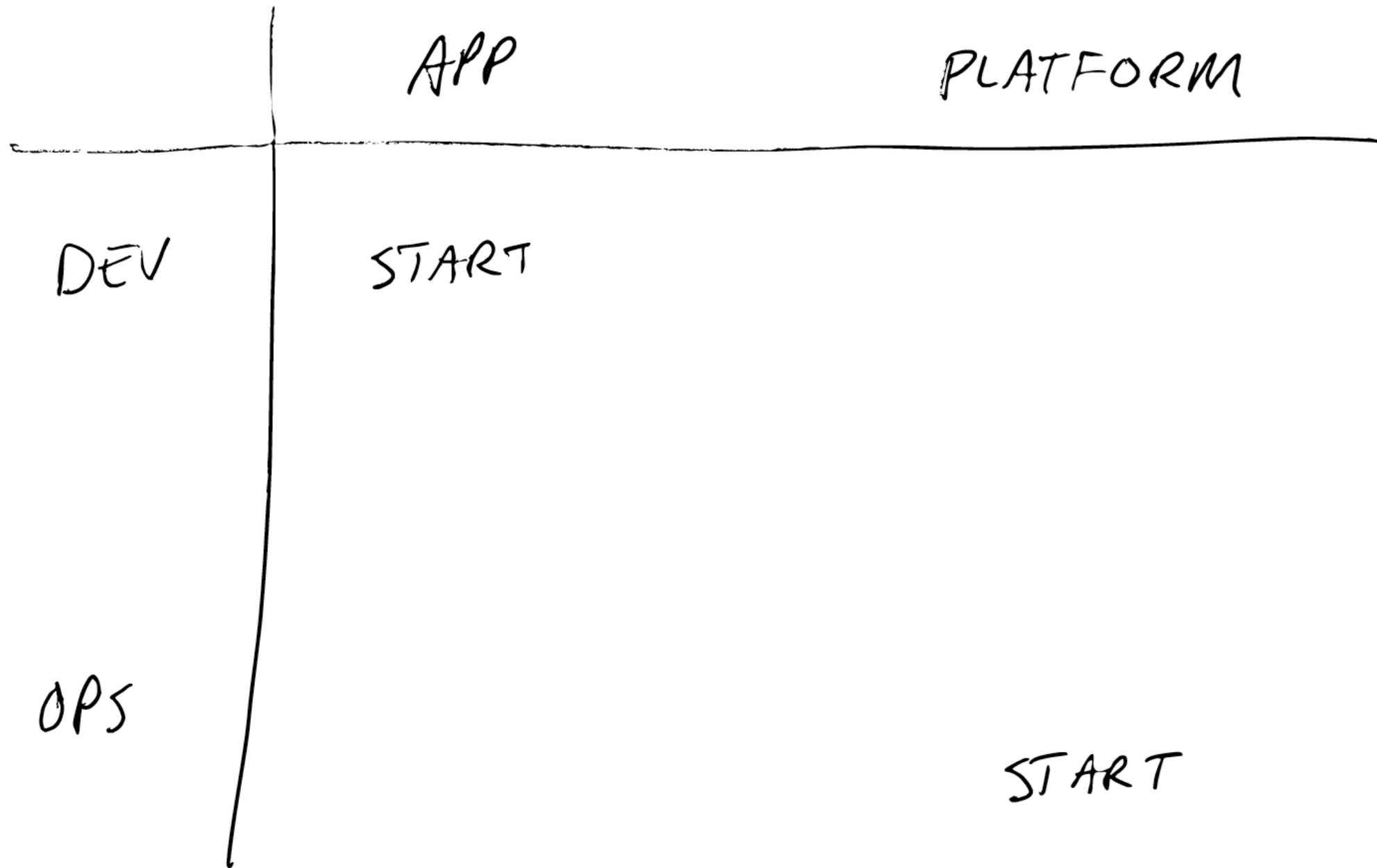


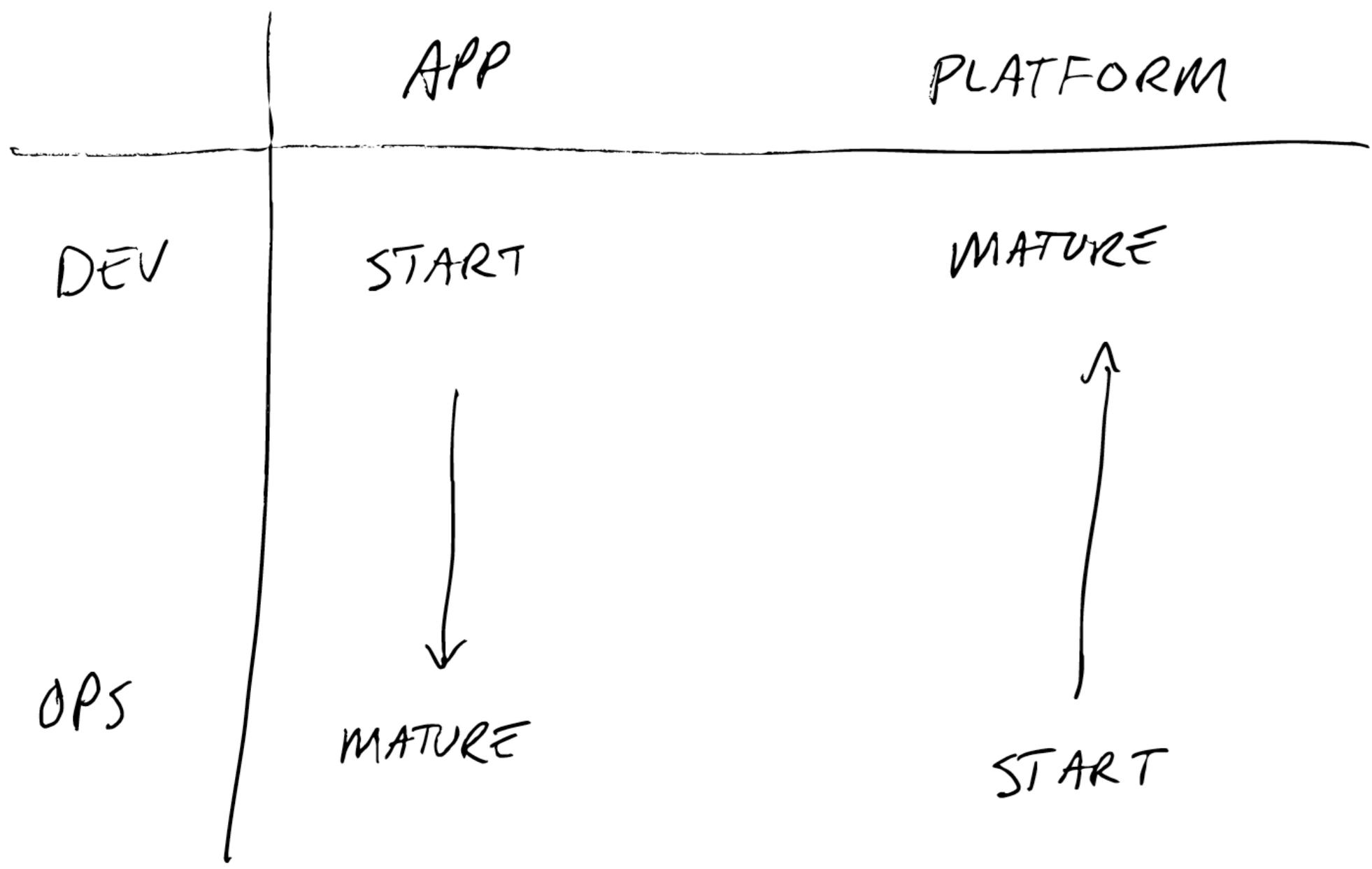
APP

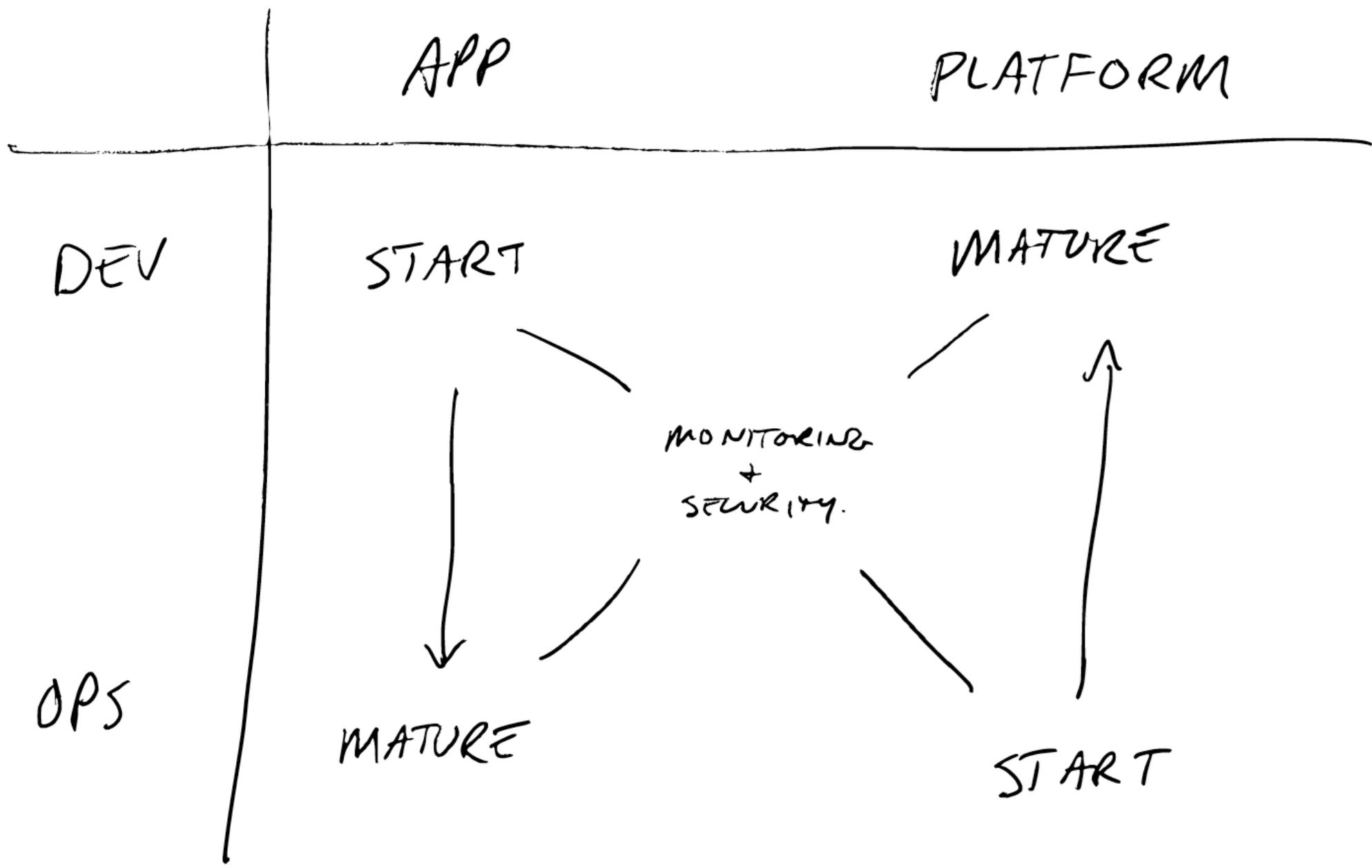
PLATFORM

DEV

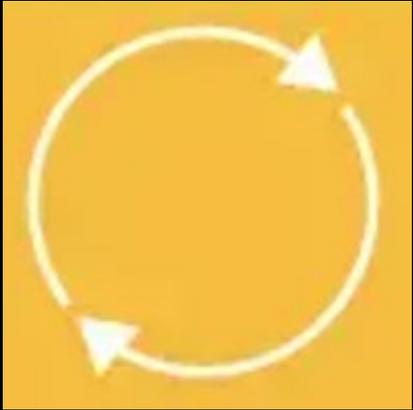
OPS







Treating every app dev
facing service as production





Treating every app dev
facing service as production



Platform testing in
application dev

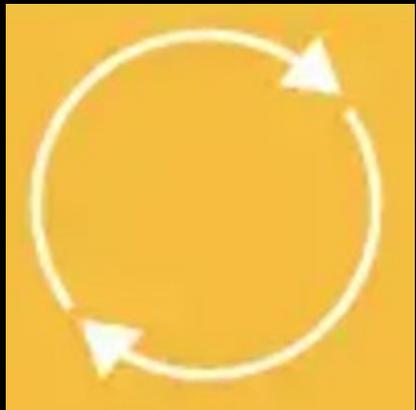




Treating every app dev
facing service as production

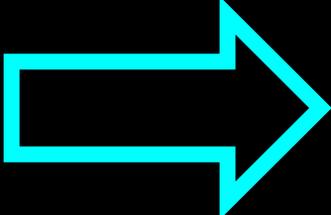


Platform testing in
application dev



Platform as a product



cATO  cRMF



LETS TALK ABOUT SEC BABY





Steps of RMF

Prepare
Categorize
Select
Implement
Assess
Authorize
Monitor



Steps of RMF In Plain Language

Are we ready to do it?

What are you doing?

If you're doing that you need to also do this.

Do it.

Did you do it?

You did it!

Let's make sure you keep doing it.



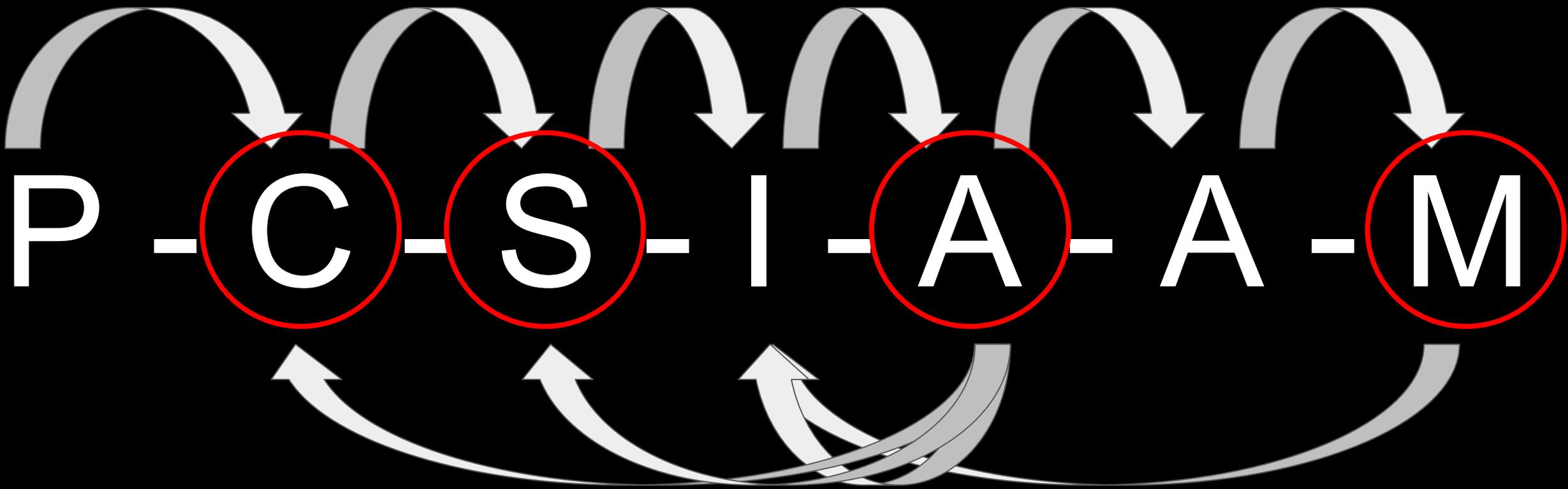
P - C - S - I - A - A - M



P - C - S - I - A - A - M



P - C - S - I - A - A - M





The opportunities to mature here are astounding

P - C - S - I - A - A - M

The fundamental differences between these two things are converging







Incorporating cybersecurity
engineers to automate SCA





Incorporating cybersecurity engineers to automate SCA



Ignoring the other steps of the RMF in DSO

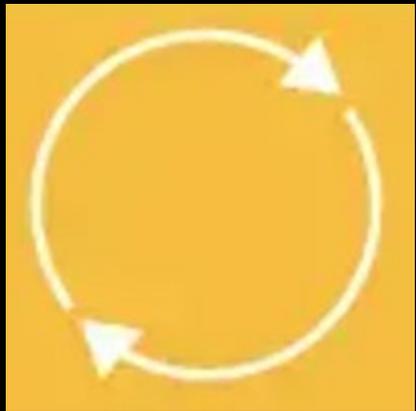




Incorporating cybersecurity engineers to automate SCA



Ignoring the other steps of the RMF in DSO



Sharing repositories of tests for security control inheritance



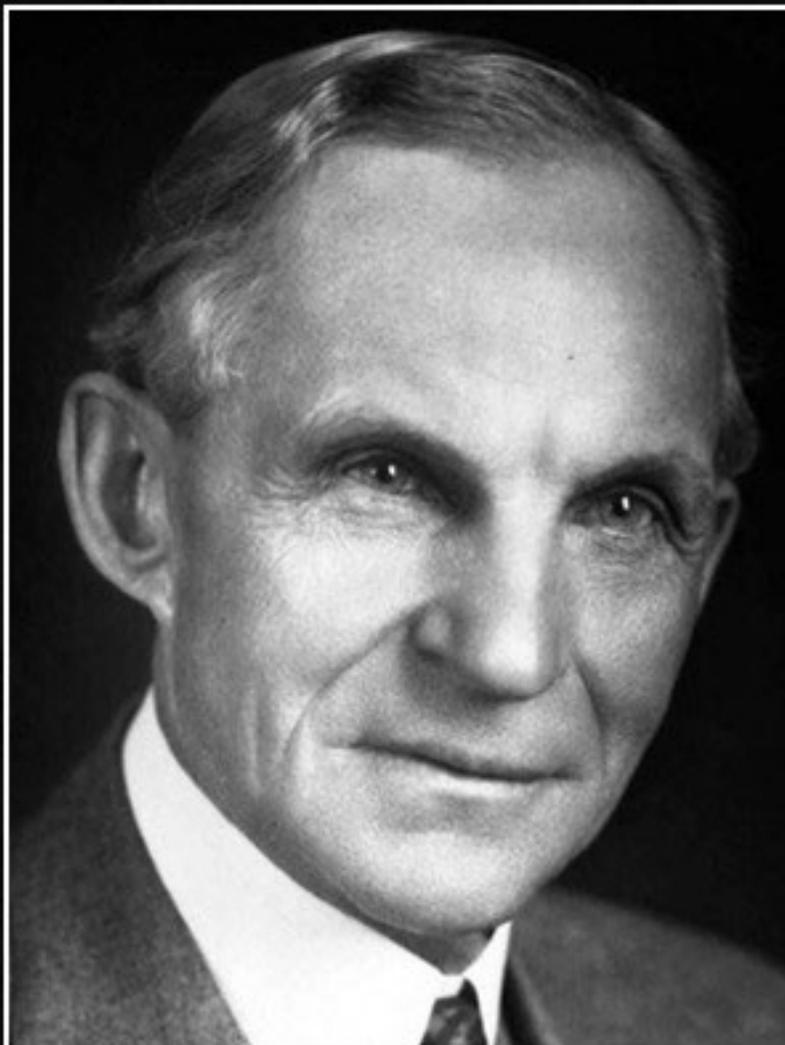
PRODUCT



PRODUCT

|

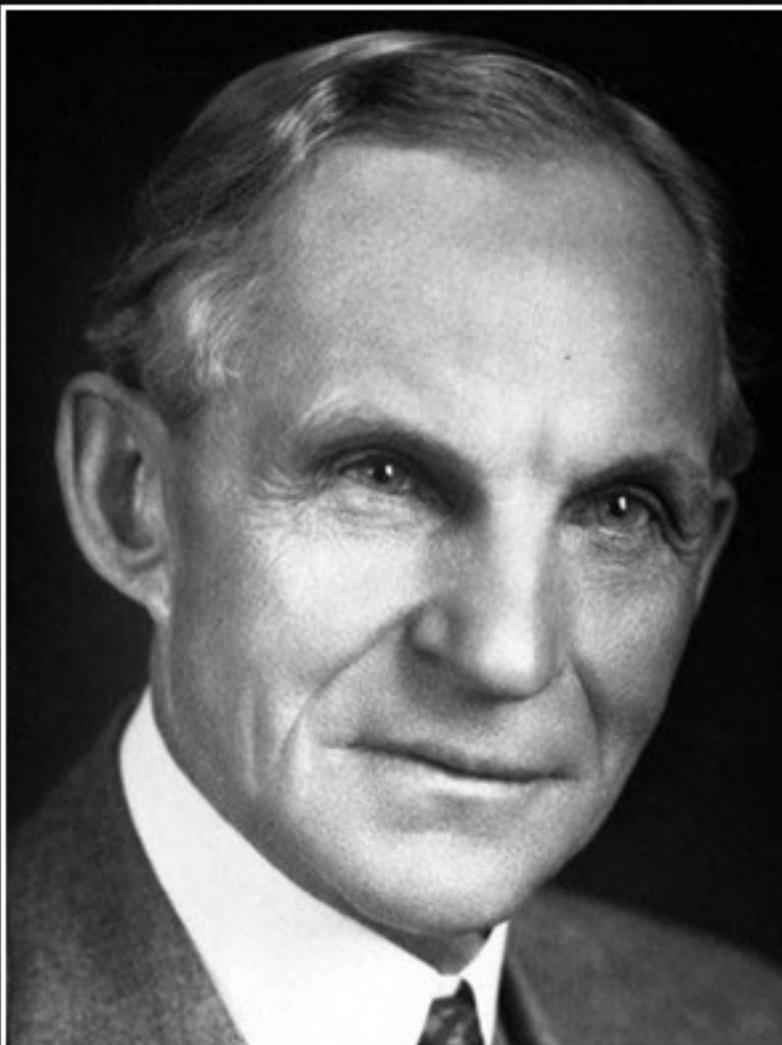
USER



If I'd listened to customers, I'd have
given them a faster horse.

— *Henry Ford* —

AZ QUOTES



If I'd listened to customers, I'd have
given them a faster horse.

NOT *Henry Ford* —

AZ QUOTES



BUSINESS

|

PRODUCT

|

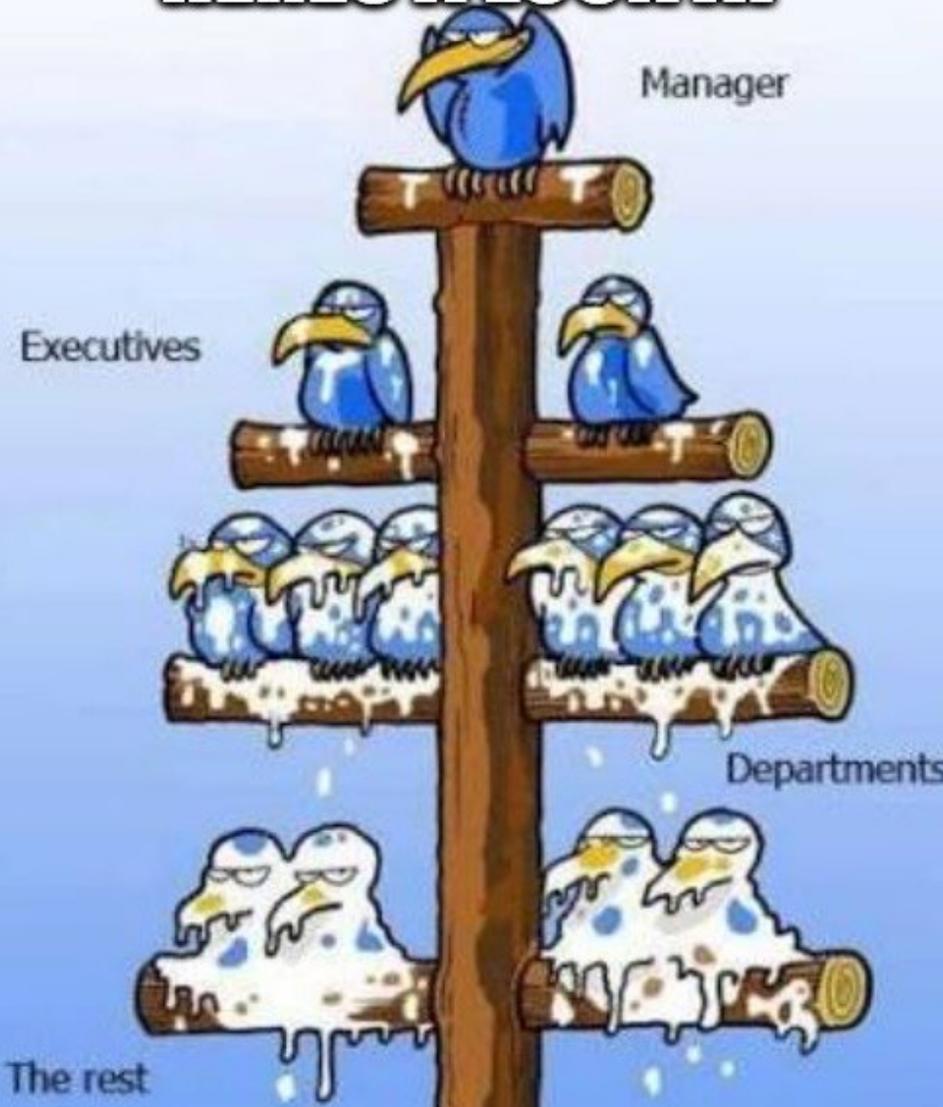
USER



Product managers exist to align top-down strategic goals of the business and bottom-up tactical feedback of the user



HERES A LOOK AT



HOW SAFE WORKS



BUSINESS

|

PORTFOLIO

/

|

/

PRODUCT

PRODUCT

PRODUCT

|

|

|

USER

USER

USER



Portfolio managers exist to deconflict product dependencies while aligning strategic business goals and tactical product team feedback



BUSINESS

|

PORTFOLIO

/

|

/

PRODUCT
USER

—

PRODUCT

—

PRODUCT
USER

|

USER

~~|~~
~~USER~~

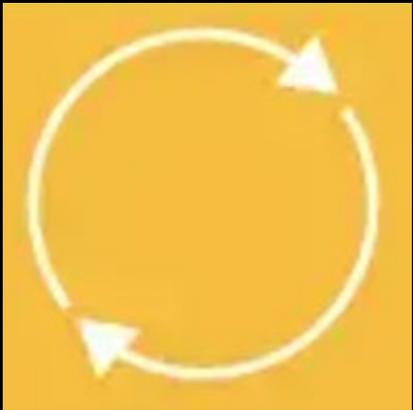
|

USER



Other products can be users too.
Don't ignore their user experience.

Balancing the strategic and the tactical for your business

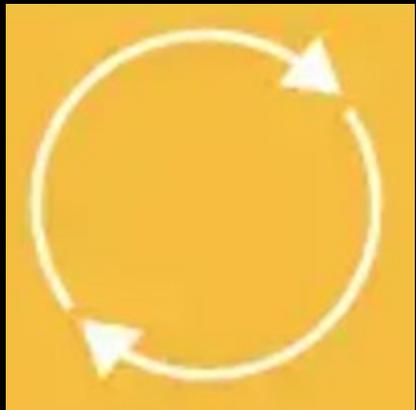




Balancing the strategic and the tactical for your business



Treating every product with autonomy from strategic goals

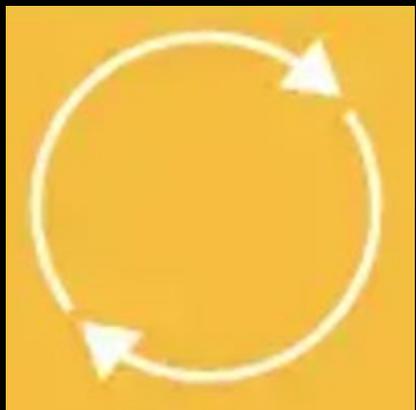




Balancing the strategic and the tactical for your business



Treating every product with autonomy from strategic goals



Having a product mindset for how capabilities are delivered



Words have meaning

Every appdev facing service is production

Don't ignore the security OODA loop

Balance the strategic and the tactical



Let's stay in touch
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Tyler Sweatt
Chief Executive Officer
Second Front



Anwar Chirakkattil
Chief Technology Officer
Kobayashi Maru,
USSF/SSC



Donald "Chee" Gansberger
Software Director
AFWERX Autonomy Prime



Bryon Kroger
Chief Executive Officer
Rise8

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Dive Into DevSecOps with Aqua



Jessy McDermott
Partner Solution Architect
Aqua Security





Dive into DevSecOps with Aqua

Jessy McDermott
Solutions Architect

August 17, 2023





we stop attacks

on cloud native applications

we guarantee it

Gain Total Lifecycle Visibility & Stop Attacks with Aqua

Federal agencies can understand their security risk posture, gain total lifecycle visibility, reduce risks, stay ahead of problems and be able to **stop cloud native attacks - guaranteed** - with the industry's most fully integrated CNAPP solution- the Aqua Platform.





The Pioneer of Cloud Security

Aqua protects applications from dev to production, across VMs, containers, and serverless workloads, up and down the entire stack.

100M+

download of our solutions

30M

images scanned daily

1.5M

workloads protected every day

1st

to deliver complete cloud native security

10

US patents for cloud native security

40%

Fortune 100 customers

Complexity

The Cloud Native Security Dilemma

Aqua Solutions align to two components of the product build lifecycle of cloud applications



Code and Build



Deploy and Run

Lifecycle visibility

Cloud misconfigurations

Tooling issues

Software supply chain attacks

Top Agency Cloud Security Challenges

Known and unknown vulnerabilities

Code issues and misconfigurations

Sophisticated attacks

Advanced malware



We Stop Attacks on Cloud Native Applications – Guaranteed.

100M+

download of
our solutions

30M

images scanned
daily

1.5M

workloads protected
every day

1st

to deliver complete
cloud native security

10

US patents for
cloud native security

40%

Fortune 100
customers

We **Stop** Cloud Native Attacks with the Industry's
Only \$1M Cloud Native Protection Warranty.

Secure your agency's cloud native apps like your business depends on it.



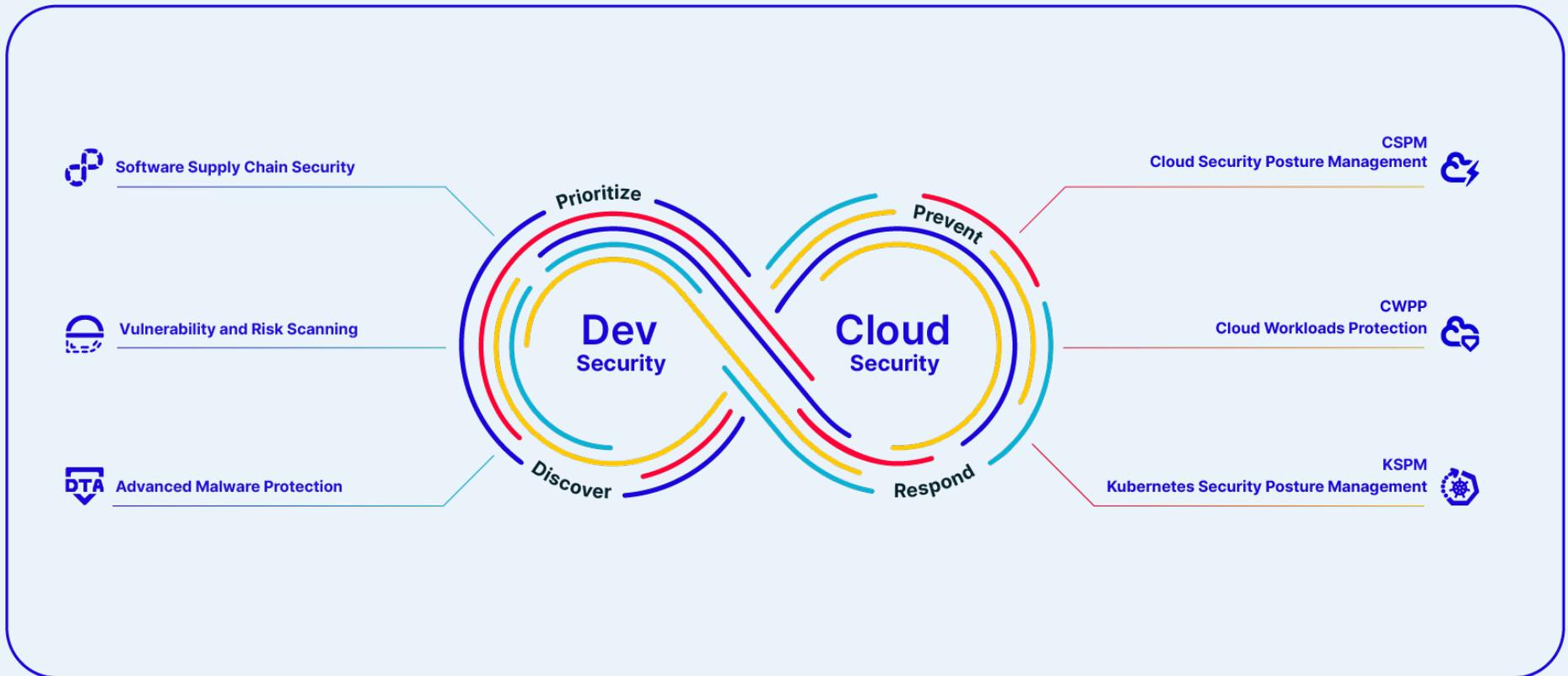
CNAPP: Defining the Cloud Security Solution



“Optimal security of cloud-native applications requires an integrated approach that starts in development and extends to runtime protection.”

- Gartner® Report: Cloud-Native Application Protection Platforms (CNAPP)

Diving Into DevSecOps -- One Platform: Unified Cloud Security from Code to Cloud & Back



Four Steps to Cloud Security with Aqua

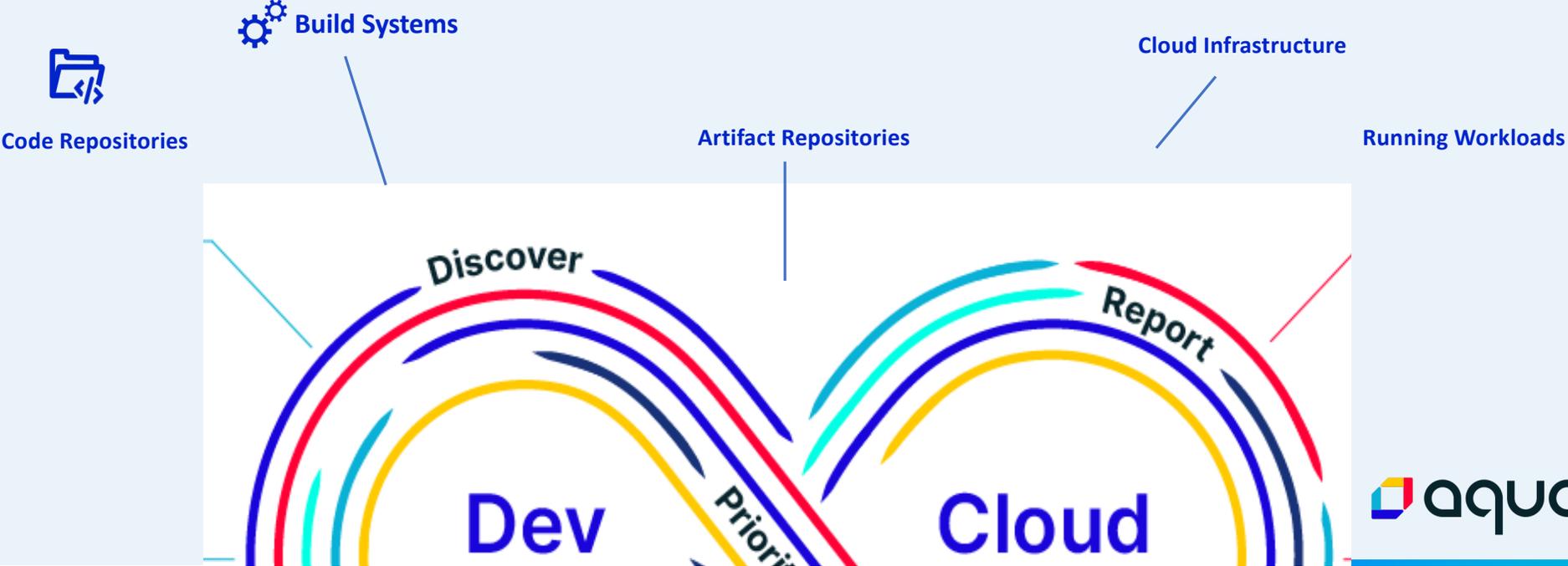
| | Code and Build | Deploy and Run |
|--|----------------|----------------|
| Step 1 Discover Continuous visibility from code to production | | ✓ |
| Step 2 Prioritize Comprehensive prioritization across the lifecycle | | ✓ |
| Step 3 Prevent Fixing and preventing issues in the software supply chain | ✓ | |
| Step 4 Respond Solving issues and stopping attacks in production | | ✓ |



Step 1. Continuous Visibility from Dev to Cloud

Connect your accounts in minutes

Instantly connect, auto discover, regularly scan, and manage results with the world's best security scanner, **Trivy**



Step 2. Comprehensive Prioritization Across the Lifecycle

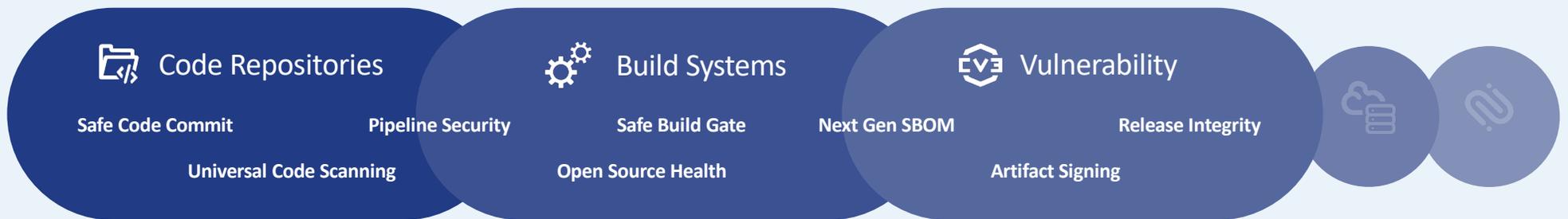
Rapidly identify, prioritize and fix single and compound threats



One prioritized list, one source of truth,
and one automated response with the only code to
production integrated cloud security platform

Step 3. Fixing and Preventing Issues in the Software Supply Chain

Instantly Evaluate and Fix



Connect to systems, scan and fix, deploy gates,
and set integrity rules with the only complete software
supply chain solution

Step 4. Solving Issues and Stopping Attacks in Production

Protect production in minutes, enhance over time



Agentless monitoring, lightning protection,
and custom policies with the only cloud native protection platform
guaranteed to stop cloud native attacks

Securing the World's Largest Organizations & Government Agencies



Top Partnerships and Awards



Google Cloud



Red Hat



AQUA SECURITY



Thanks



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Looking to the Future of DevSecOps and Agile Practices



Ben Straub

Head of Public Sector Sales

Atlassian



Alex McFarland

Technical Lead, Project Vulcan

DISA



Navin Vembar

Principal Engineer

Atlassian



Arjuna Rivera

Senior Solution Engineer

Atlassian

Networking Lunch



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Application Modernization Outcomes with VMware Tanzu



John Gozzi

Tanzu Solution Engineering Lead – Public Sector

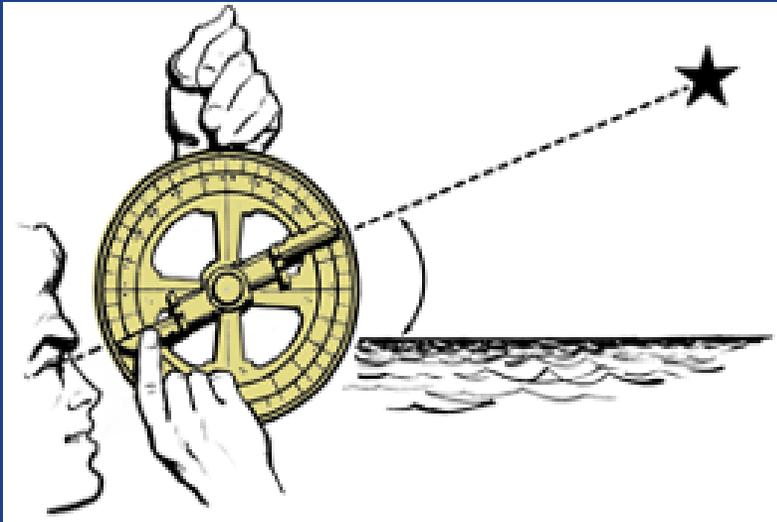
VMware





How can Tanzu help your organization?

Tanzu Public Sector's North Star



Rapidly and Securely Deliver
Software to Production that
Improve Mission Outcomes

Tanzu Empowers Agencies to ...



Develop

Modern Apps that
Deliver Immediate
Value

Application Development



Iterative Development Best Practices

Agile, User Centered Design, Modern App Team Structure, SWIFT Methodology



Modern Application & Data Architectures

Applications designed to be highly scalable, resilient, and portable



Go Fast Forever

Enable Developers through Paired Programming while working on a real development project

Tanzu Empowers Agencies to ...



Deploy

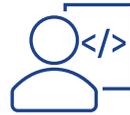
Apps securely with a
Great Developer
Experience

DevSecOps



Golden Path to Prod with Embedded Security

As developers commit code a supply chain is triggered automatically, providing a continuous path to production. Security steps are baked in to empower control inheritance.



Developer Efficiency & Experience

Bring Simplicity and Ease of Use to Developers via a Developer Portal & Organization-Approved App Starters



Deploy Apps Anywhere

Single approach to deploying modern applications across any cloud and on-premise environment.

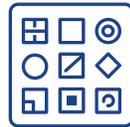
Tanzu Empowers Agencies to ...



Operate

Container Platforms
Across Edge,
Datacenter & Cloud

Platform Operations



Secure Container Platforms

Provide container orchestration platforms across Edge, Datacenters & Clouds



Centralized Container Platform Management

A single approach to Identity & Access Management, Security Policies, Data Protection, Secrets Management and Shared Services delivery.



One Control Plane, Any Cloud

Consistently Lifecycle & Manage both on-premise, edge and Cloud container platforms.

Tanzu Empowers Agencies to ...



Develop

Modern Apps that
Deliver Immediate
Value



Deploy

Apps securely with a
Great Developer
Experience



Operate

Container Platforms
Across Edge,
Datacenter & Cloud



Innovation Velocity
“A Software Factory”



Thank You



Thank You to Our Sponsors



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DevSecOps - Vulnerabilities to Velocity



Arian Salgado
Solutions Architect
Red Hat



Luis Acosta
Solutions Architect
Red Hat



Red Hat Secure Software Supply Chain

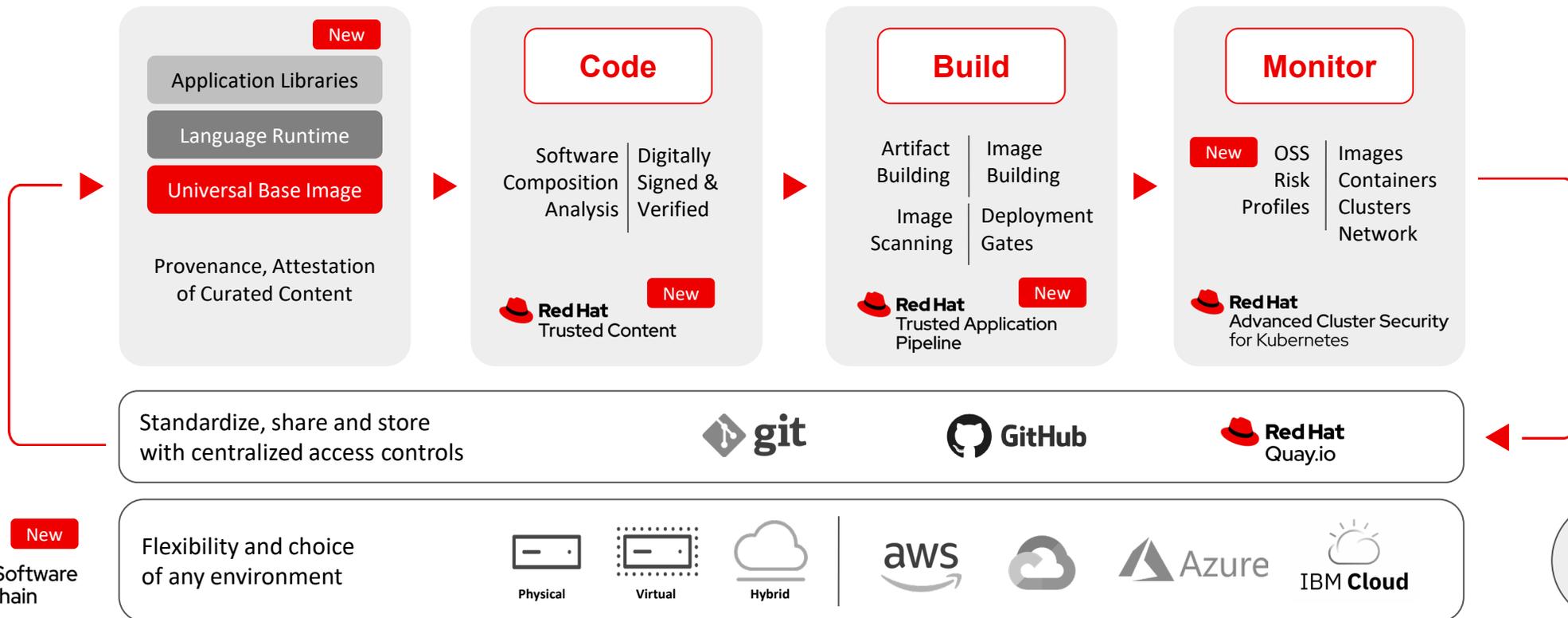
From vulnerabilities to velocity

Arian Salgado
Solution Architect
arian@redhat.com

Luis Acosta
Solution Architect
lacosta@redhat.com

Code, build, and monitor with a Trusted Software Supply Chain

With integrated security guardrails at every phase of the software development lifecycle



- Onboard in minutes

The screenshot displays the Red Hat Hybrid Cloud Console interface. The top navigation bar includes the Red Hat logo, 'Red Hat Hybrid Cloud Console', 'Services', 'Favorites', and a user profile for 'Parag Dave'. A 'Beta on' toggle is also visible. The main content area shows a pipeline run for 'devfile-sample-code-with-quarkus-4t7f-d817s' in a 'Running' state. The pipeline run details are visualized as a flowchart with the following steps:

- init (Completed)
- clone-repository (Completed)
- prefetch-dependencies (In Progress)
- build-container (Expanded view):
 - build (1 minute 4 seconds)
 - sbom-get
 - analyse-dependencies-java-sbom
 - merge-sboms
 - inject-sbom-and-push
 - upload-sbom
- inspect-image (In Progress)
- label-check (In Progress)
- optional-label-check (In Progress)
- clair-scan (In Progress)
- clamav-scan (In Progress)
- sbom-json-check (In Progress)
- deprecated-base-image-check (In Progress)
- sast-snyk-check (In Progress)

Below the flowchart, a table provides summary information:

| Name | Status |
|---|--------------|
| devfile-sample-code-with-quarkus-4t7f-d817s | Running |
| Namespace | Pipeline |
| pdave-tenant | docker-build |

- Red Hat Trusted Software Supply Chain



Sign up today

- ▶ Choose Red Hat for your trusted software supply chain + DevSecOps
- ▶ Learn how Red Hat Trusted Software Supply Chain can help: red.ht/trusted



Darryl Peek II
*Senior Director, Public
Sector Channels &
Alliances*
Elastic



Ian Eishen
*Director, Global Public
Sector*
Aalyria



Bonnie Evangelista
*Senior Procurement
Executive, Tradewinds*
Execution Lead
Chief Digital and Artificial
Intelligence



Joseph (Mike) McWilliams
*Director of Staff and
Acquisition Program*
Department of the Air
Force Office of Small
Business

carahsoft®

Removing Barriers by Leveraging Scalable PaaS



TJ Rowe

Vice President of Sales

Second Front



carahsoft®

Harnessing the Power of Automation, AI and Machine Learning in DevSecOps and Software Factories



Johnny Wong

Senior Director, Solutions Architecture

Veracode



John Zangardi

Chief Executive Officer

Redhorse Corporation

(Former DHS CIO, Acting DoD CIO, & Navy CIO)

Networking Break



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Postgres for Kubernetes and Cloud - with DataSecOps and DevSecOps



Gregory Pochodaj
Principal Architect
EDB





Advanced PostgreSQL community contributor

alongside a vibrant
3 of 7 Postgres Core Team Members,
300+ PostgreSQL Community Contributors, **40+** Contributors

EDB experts have the direct foundation of Postgres
for **Containerized PostgreSQL Enhancements**
50% of Postgres Code Contributed
Secure Encrypted Database

Challenging Postgres users
EDB has unparalleled expertise in Postgres
on-prem and cloud solutions

#300 Dedicated Postgres engineers
*Oracle Compatible

Gregory.Pochodaj@EnterpriseDB.com

EDB™ Principal Architect – SE
Information Architecture & Governance
Azure, AWS, IBM, Kubernetes

Postgres Available most Anywhere and Everywhere

from self-managed -to- fully managed DBaaS in the cloud



Private



Hybrid



Multi-cloud



Public



Bare Metal



Virtual Machines



Containers

- Same applications
- Faster innovation
- Performance and scalability
- Stability, security and control
- Seamless integration

| | | | | |
|--|--|---|--|---|
|  Linux |  macOS |  Windows |  BSD |  Solaris |
|  Debian |  Red Hat/Rocky/CentOS |  SUSE |  Ubuntu |  Other Linux |
|  kubernetes |  Microsoft Azure |  aws |  Google Cloud | Linux on IBM Z mainframe |



Public Sector Leaders Adopting Postgres



DevSecOps Platform Stack
(continuously evolving)



Australian Government
Defence



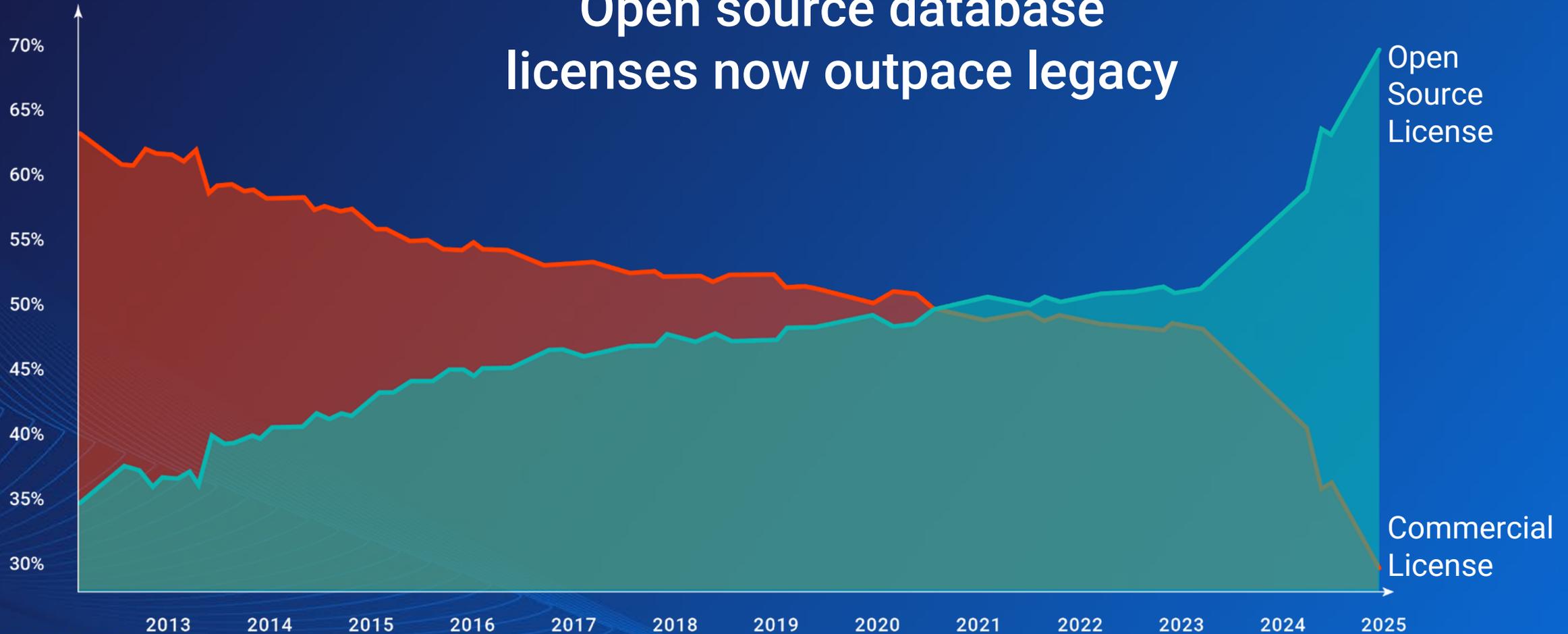
Australian Government
Services Australia



NEW ZEALAND
CUSTOMS SERVICE
TE MANA ĀRAI O AOTEAROA

The Tipping Point has already happened

Open source database licenses now outpace legacy



DevSecOps Integration



PostgreSQL

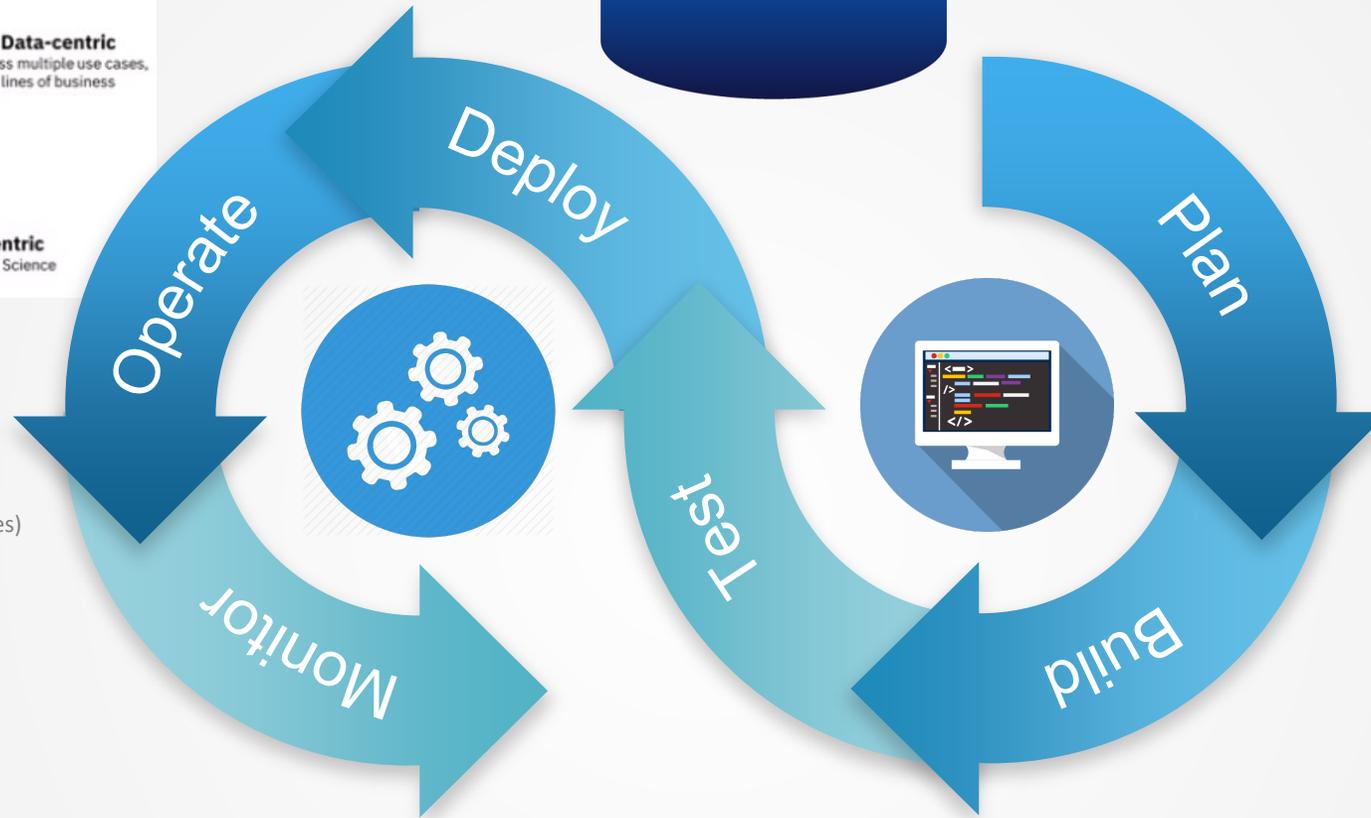
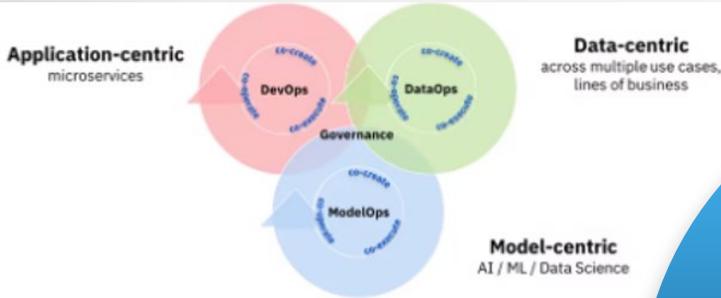


DevSecOps

goals with



Postgres products



CI (Continues Integration)

Flexible server
Easily re-initialized and refreshed

CD (Continues Delivery)

Infrastructure as Code (Kubernetes)
Deployment Service

CM (Continues Monitoring)

Logs Server (ELK stack)
Infrastructure Monitoring
Metric Server (Prometheus)
Alert Manager(Prometheus)

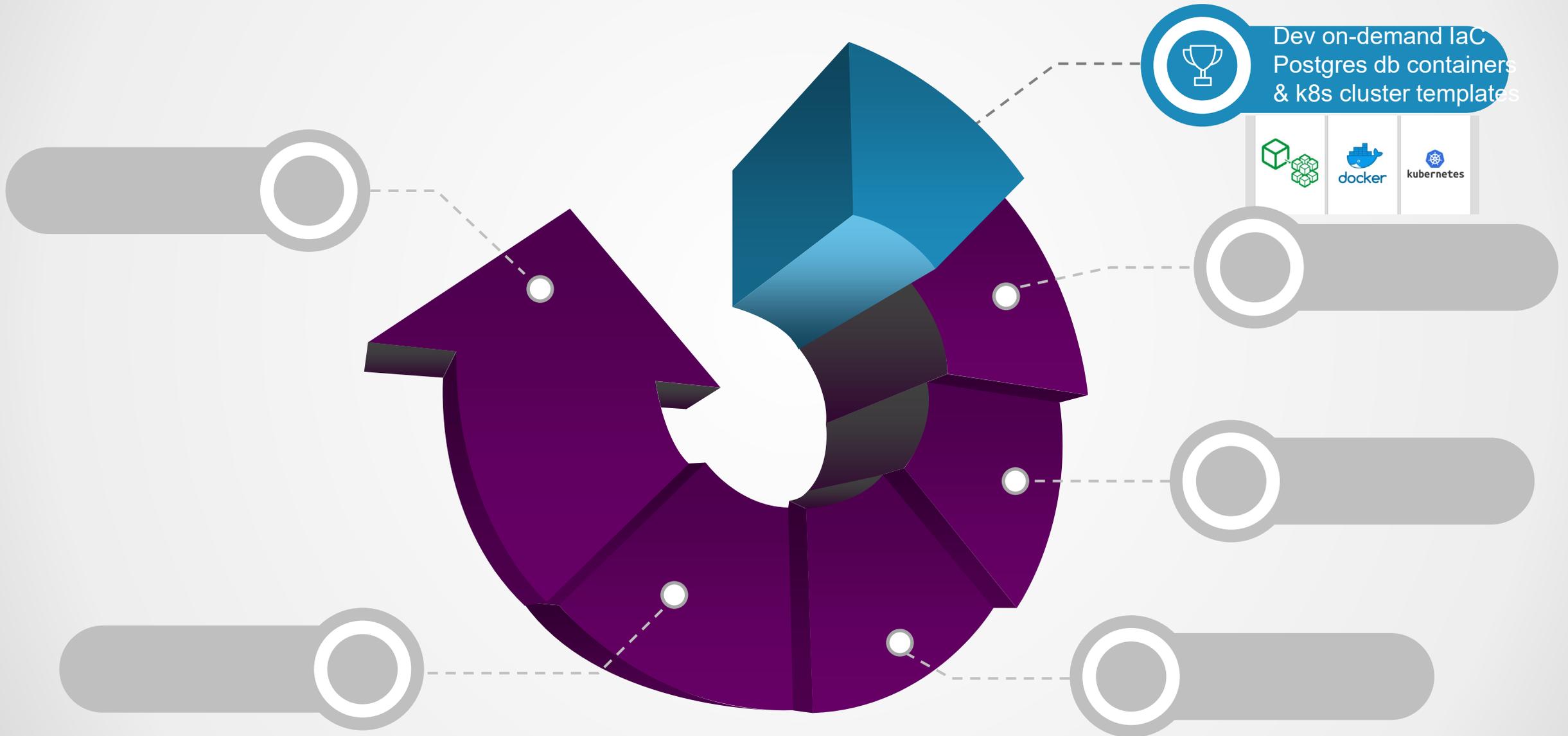


Dev empowered
to create and refresh env
on-demand & on their own
...per procedures built by Sec and Ops

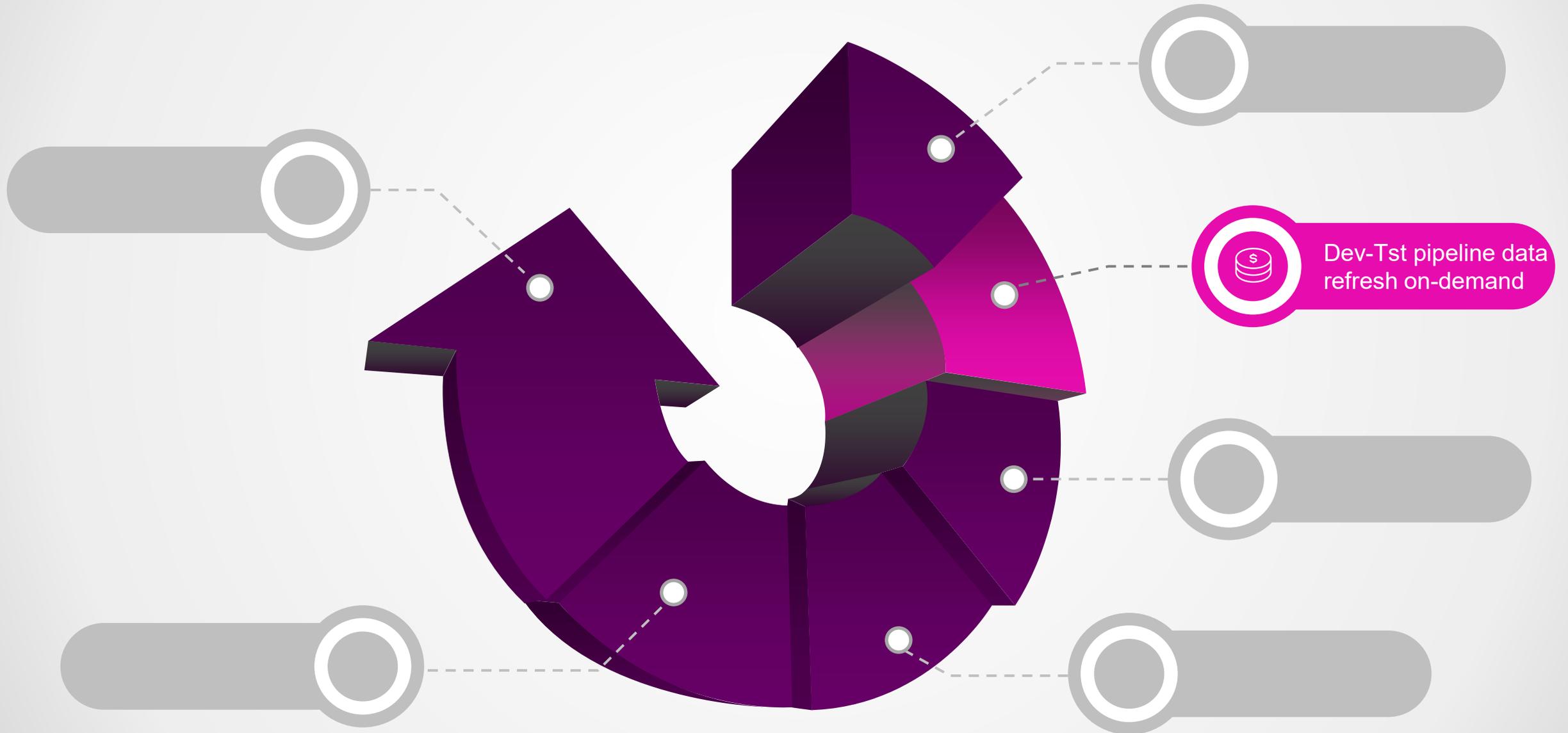
Multi-Layered Security
built-in
by policy

Ops IaC and auto-DBA
to reduce bottlenecks and cost

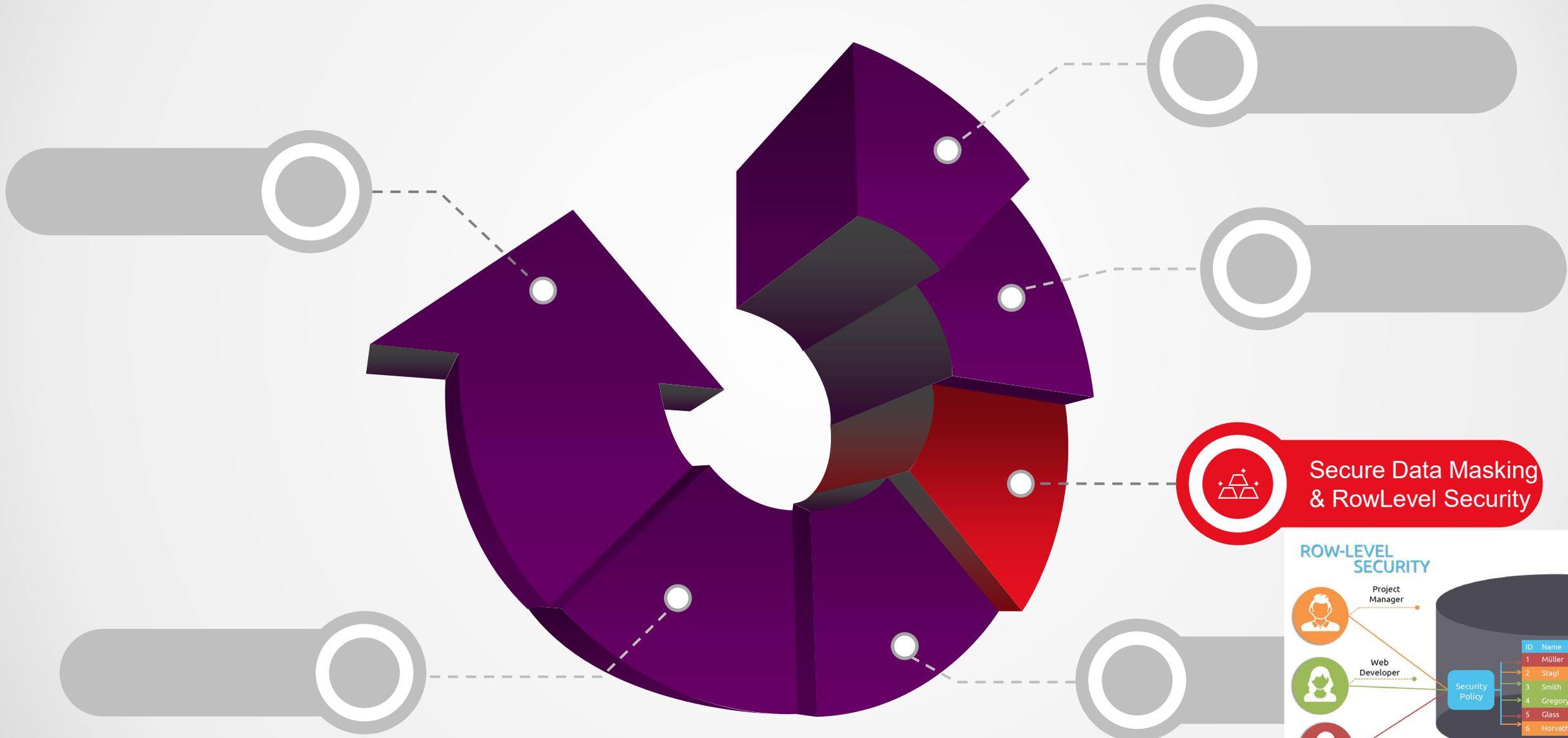
DevSecOps results with EDB Postgres products



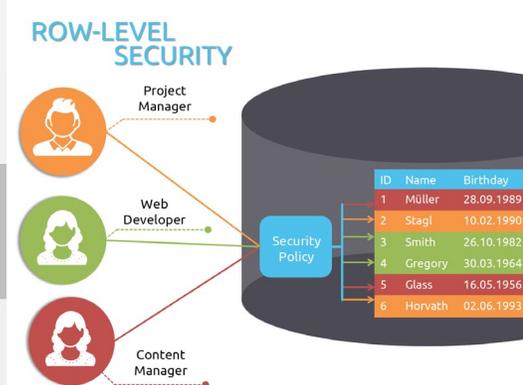
DevSecOps results with EDB Postgres products



DevSecOps results with EDB Postgres products



 Secure Data Masking & RowLevel Security



DevSecOps results with EDB Postgres products



DevSecOps results with EDB Postgres products

Query Query History

```
1 SET track_io_timing = TRUE;  
2 EXPLAIN (ANALYZE, COSTS, VERBOSE, BUFFERS, FORMAT JSON)  
3 select count(*) from my_schema1.my_table1
```

Data Output Messages Explain x Notifications

Graphical Analysis Statistics

my_schema1.my_table1_a

Append

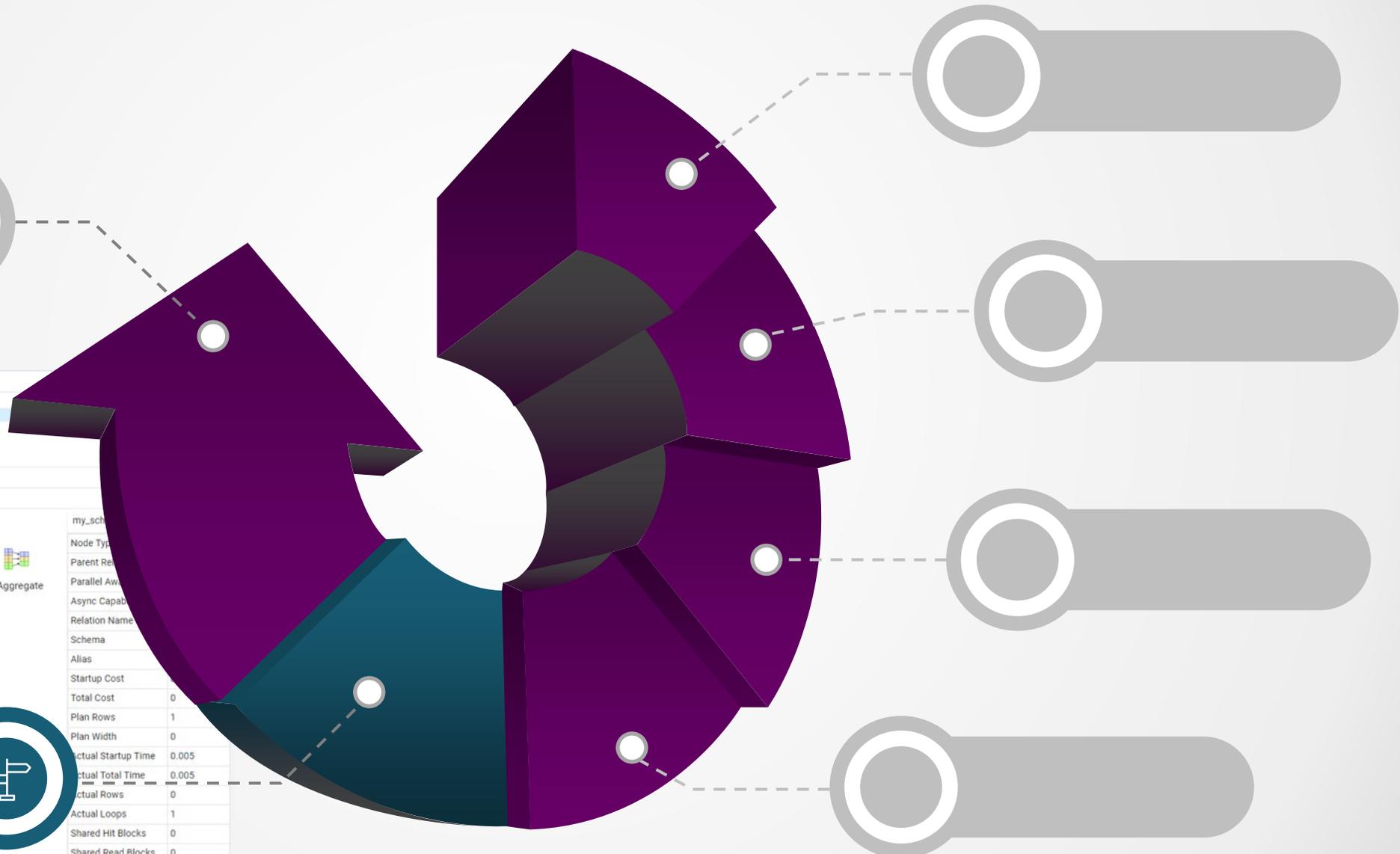
Aggregate

my_schema1.my_table1_b

| | |
|-----------------------|----------------------|
| Node Type | Aggregate |
| Parent Relation | my_schema1.my_table1 |
| Parallel Aware | yes |
| Async Capable | no |
| Relation Name | my_schema1.my_table1 |
| Schema | my_schema1 |
| Alias | |
| Startup Cost | 0 |
| Total Cost | 0 |
| Plan Rows | 1 |
| Plan Width | 0 |
| Actual Startup Time | 0.005 |
| Actual Total Time | 0.005 |
| Actual Rows | 0 |
| Actual Loops | 1 |
| Shared Hit Blocks | 0 |
| Shared Read Blocks | 0 |
| Shared Dirtyed Blocks | 0 |
| Shared Written Blocks | 0 |

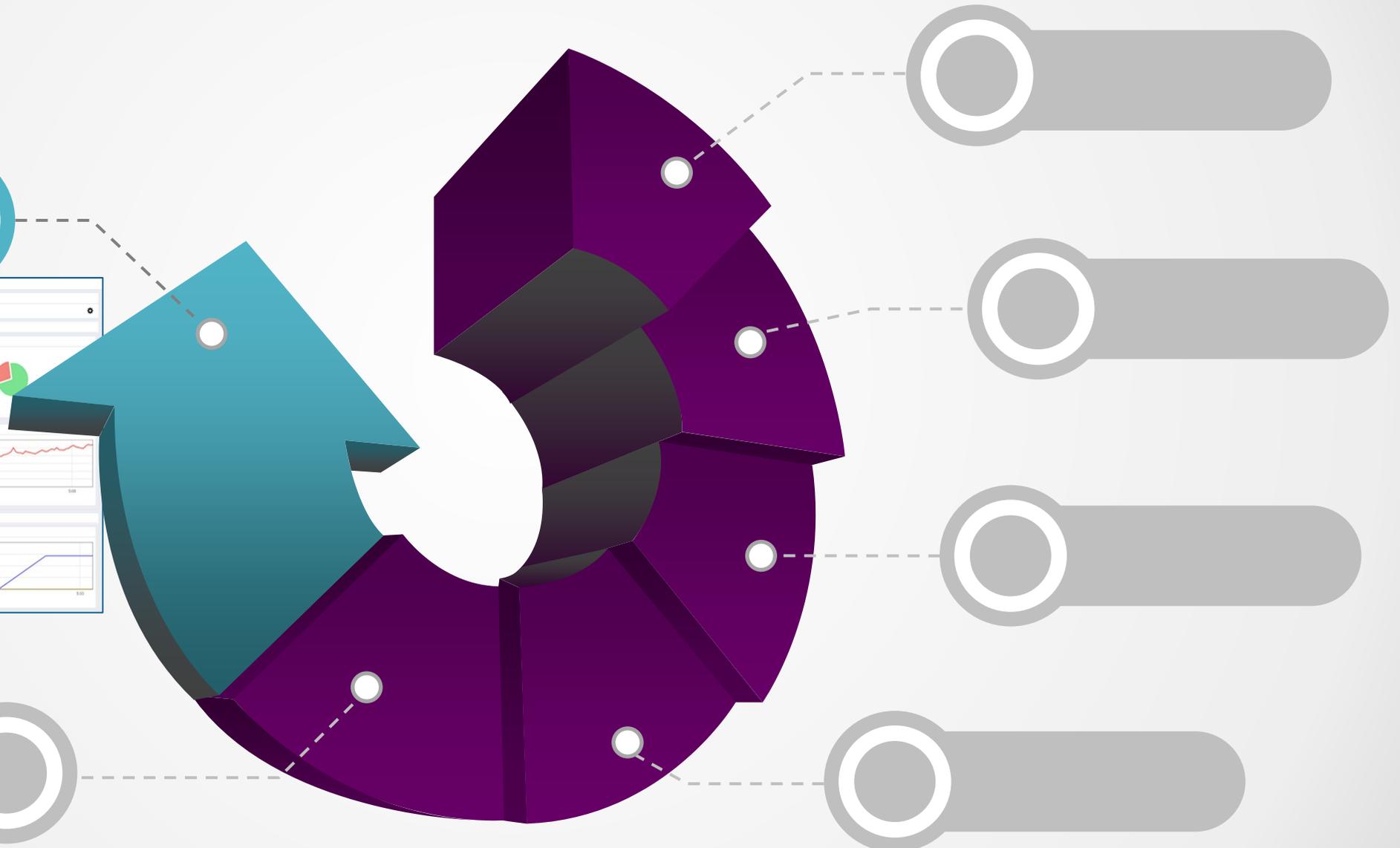
my_schema1.my_table1

DevOps
DB Index & Query
Tuning Wizards

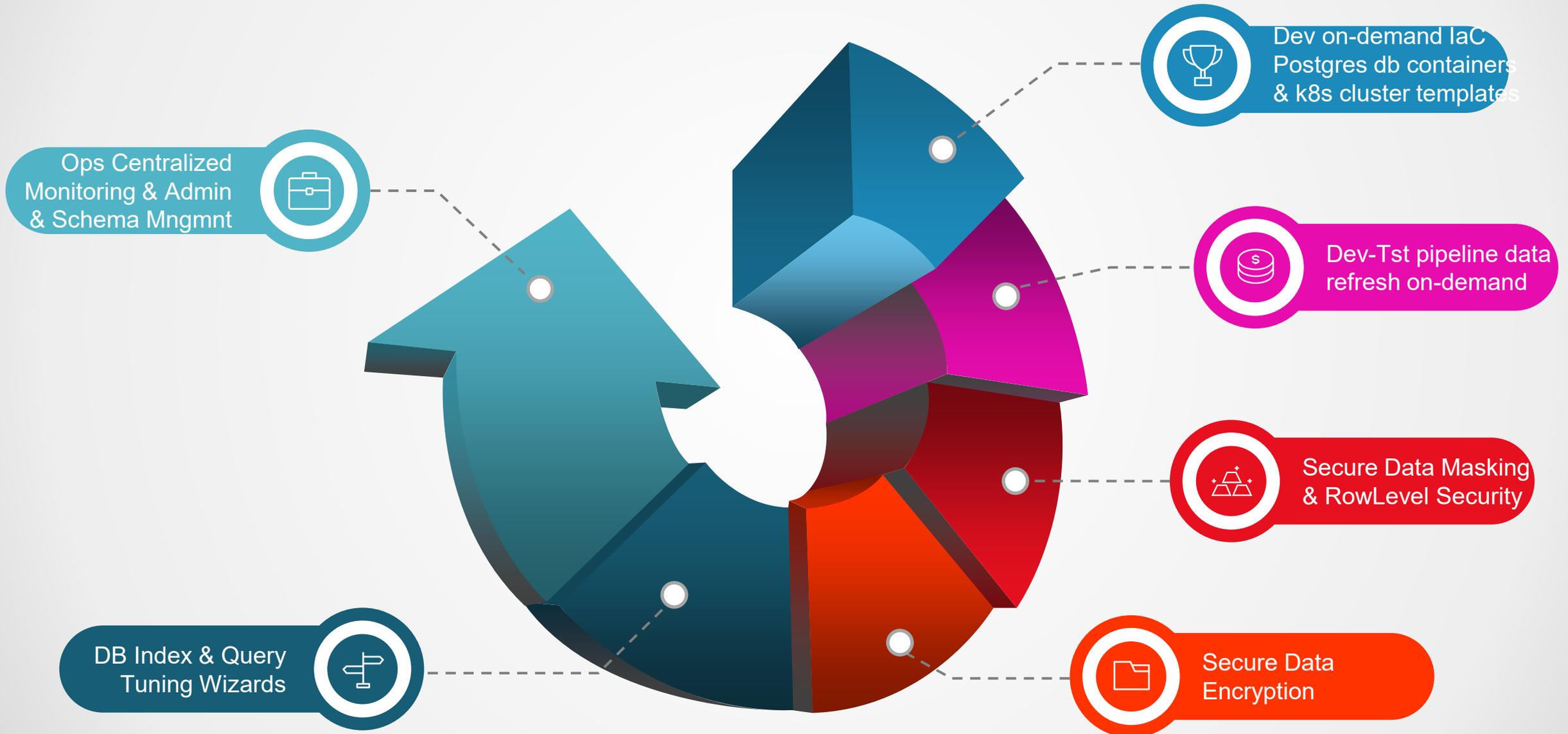


DevSecOps results with EDB Postgres products

Ops Centralized
Monitoring & Admin &
Schema Mngmnt



DevSecOps results with EDB Postgres products



“Infrastructure as Code” Benefits



Iron Bank – DoD Centralized Artifacts Repository (DCAR)
<https://repo1.dso.mil/dsop/jfrog/artifactory/artifactory-oss>

The **“Infrastructure as Code” is a critical DevSecOps ingredient** that production environments do not drift from development/testing environments. No human should make changes in production environments. Changes should only be made in source code and redeployed by the CI/CD pipeline.

- No drift between environments, whether classified/disconnected/Cloud/on-premise
- Immutable,
- Replicable,
- Automated,
- No human in production environments: reduces attack surface (disable SSH etc.), insider threat and configuration drifts,
- Everything is code: including playbooks, networking, tests, configuration etc.

Integrity - Service - Excellence

Postgres for Kubernetes

Container Images and Kubernetes Operators



Dev-Prd IaC



EDB Postgres Advanced Server and Postgres container images

Docker container images containing the Database server with only the Postgres service exposed

Sec built-in



Security

Ensure Postgres and Kubernetes Pod Security best practices implemented by default

Ops auto-pilot

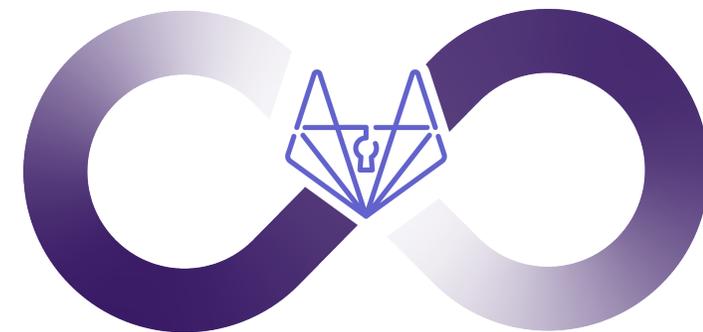


EDB Postgres for Kubernetes Operator

Responsible for deploying and managing Postgres and EDB Postgres Advanced Server containers and maintaining the desired state

IaC

Container Images and Kubernetes Operators



Immutable Containers

```
[podman/docker] run \  
  --name postgres \  
  -p 5432:5432 \  
  -e POSTGRES_USER=postgres \  
  -e POSTGRES_PASSWORD=postgres \  
  -d postgres
```

Quickly and Easily create Postgres for Kubernetes Cluster

```
cat <<EOF | kubectl apply -f -  
apiVersion:  
  postgresql.k8s.enterprisedb.io/v1  
kind: Cluster  
metadata:  
  name: cluster-example  
spec:  
  instances: 3  
  imageName:  
  quay.io/enterprisedb/postgresql:15.3  
  
  storage:  
    size: 1Gi  
EOF
```

pre-initialize the database with your refreshed test data

```
bootstrap:  
  pg_basebackup:  
    source: source-db  
storage:  
  size: 1Gi  
  
externalClusters:  
- name: source-db  
  connectionParameters:  
    host: source-db.foo.com  
    user: streaming_replica  
password:  
  name: source-db-replica-user  
  key: password
```

Sec Built-in

NSA - National Security Agency

CISA - Cybersecurity and Infrastructure Security Agency

Cybersecurity Technical Report



EDB Postgres for Kubernetes adheres to CNCF and CISA Best Practices

<https://www.cisa.gov/resources-tools/resources/free-tools-cloud-environments>

https://media.defense.gov/2022/Aug/29/2003066362/-1/-1/0/CTR_KUBERNETES_HARDENING_GUIDANCE_1.2_20220829.PDF

<https://www.nsa.gov/Press-Room/News-Highlights/Article/Article/2716980/nsa-cisa-release-kubernetes-hardening-guidance>



National
Security
Agency



Cybersecurity
and Infrastructure
Security Agency

Kubernetes Hardening Guidance

Ops Auto-Pilot

Container Images and Kubernetes Operators



Deploy anywhere

Lightweight, immutable PostgreSQL containers



Automate DBA Tasks

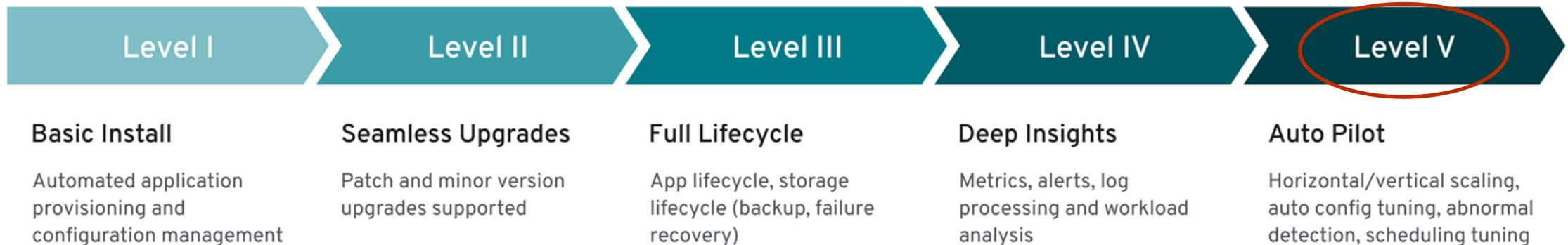
Failover, switchover, backup, recovery, and rolling updates



Avoid lock-in

Operator and images are portable to any cloud

Ops built-in to the EDB Kubernetes Operator - "Level V – Auto Pilot"



EDB Postgres Advanced Server (EPAS)



EDB Postgres Advanced Server

- **Oracle Compatibility** - Compatibility for schemas, data types, indexes, users, roles, partitioning, packages, views, PL/SQL triggers, stored procedures, functions, and utilities
- **Additional Security** – TDE-Transparent Data Encryption, Password policy management, session tag auditing, data redaction, SQL injection protection, and procedural language code obfuscation
- **Developer Productivity** - Over 200 pre-packaged utility functions, user-defined object types, autonomous transactions, nested tables, synonyms, advanced queueing
- **DBA Productivity** - Throttle CPU and I/O at the process level, over 55 extended catalog views to profile all the objects and processing that occurs in the database
- **Performance** - Query optimizer hints, SQL session/system wait diagnostics
- **Replication Enhancements** - Enables EDB Postgres Distributed functionality such as Group Commit, Commit at Most Once and Eager all-node synchronous replication, timestamp-based snapshots, estimates for replication catch-up times, selective backup of a single database, hold back freezing to assist resolution of UPDATE/DELETE conflicts, multi-node PITR

EDB Postgres Multi-Layered Security



Transparent
Data
Encryption



Virtual private
databases



Data redaction

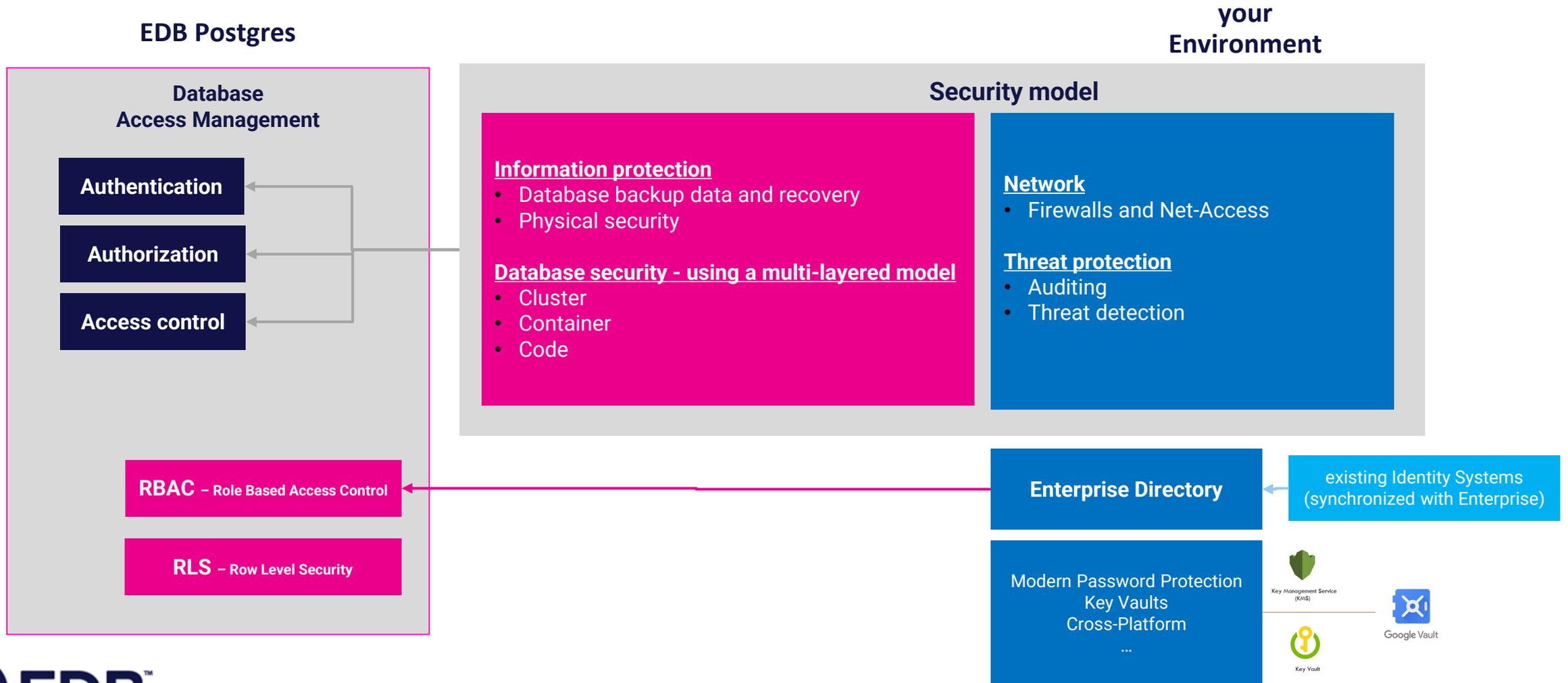


LDAP sync



EDB Postgres Multi-Layered Security is Integrated and Shared with your existing Security

- multi-layer security architecture typical components:**
- Secure physical access to the host (perhaps most important)
 - Limited access to your general corporate network
 - Limited access to the database host
 - Limited access to the database application
 - Limited access to the data contained within



Ops and EDB Postgres Enterprise Manager

Deep insights into your Postgres deployment



Manage from one interface

One place to visualize and manage everything Postgres



Monitor system health

Built-in dashboards and customizable alert thresholds



Optimize database performance

In-depth diagnostics for database reports and tuning

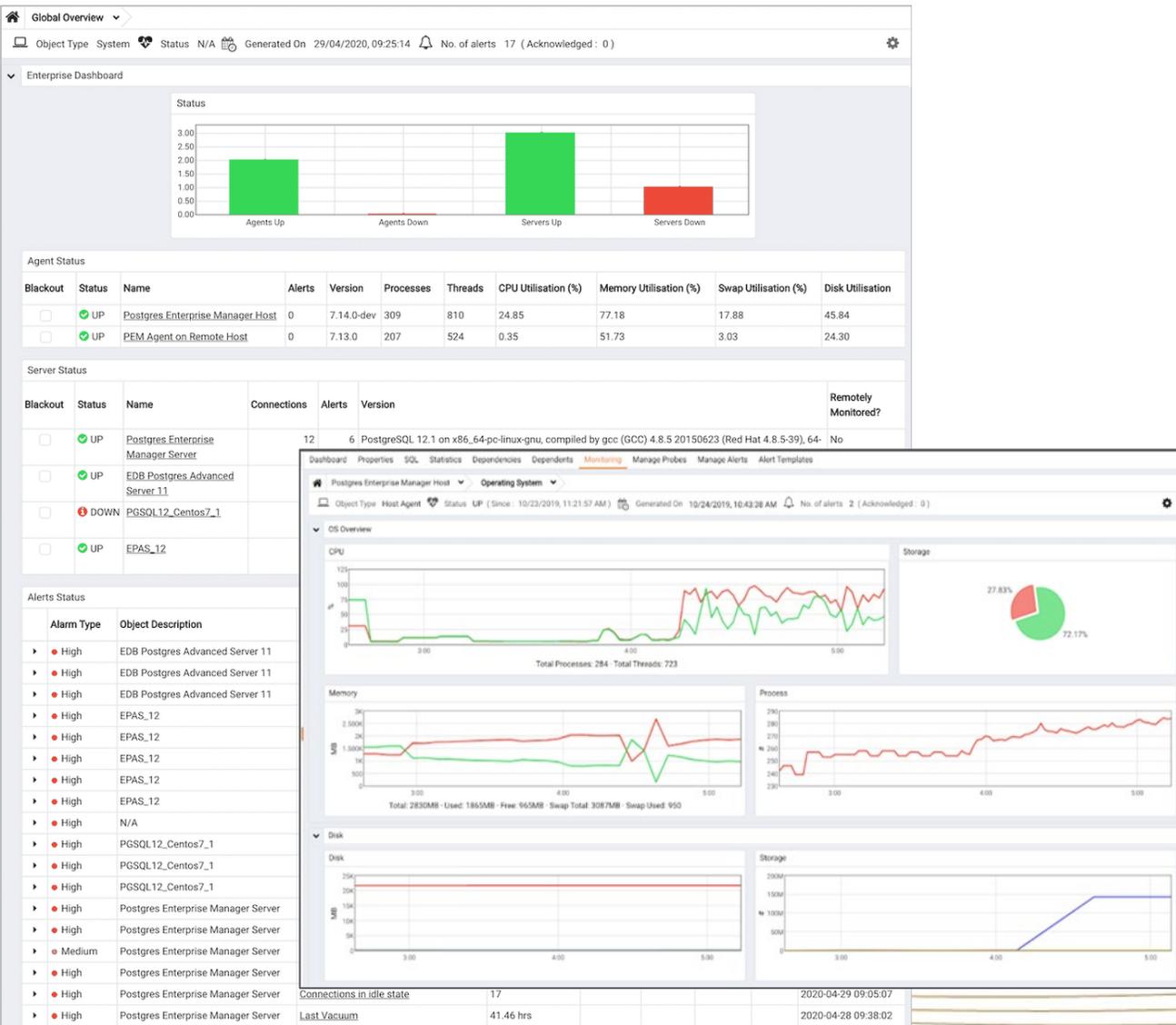


Reduce admin burden

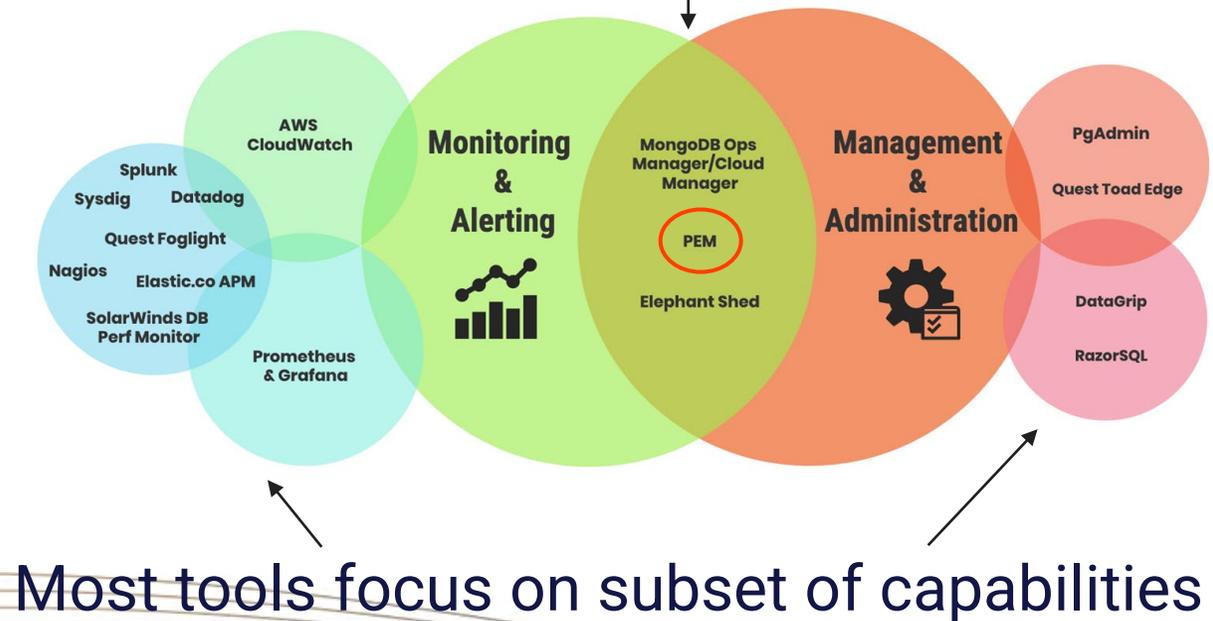
Accomplish bulk changes and routine tasks

Postgres Enterprise Manager

Manage, monitor, and tune Postgres at scale



Manage and Monitor PostgreSQL environments



Most tools focus on subset of capabilities



EDBTM

and we are by your side every step of the way.

EDB Postgres Training

FREE

from the World's Top Postgres Experts

<https://www.enterprisedb.com/training>



[DevSecOps training :](#)

<https://software.af.mil/training>

<https://software.af.mil/dsop/documents>





Gregory.Pochodaj@EnterpriseDB.com

Principal Architect – SE

Information Architecture & Governance

Azure, AWS, IBM, Kubernetes

Certified and Experienced Consultant

Thank You !



DevSecOps

... Just Do It

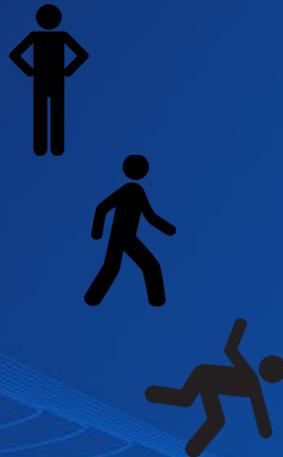
... step by step

measurement of movement is defined as :

Nothing happens without movement

Move in practical steps

Don't wait for sudden movements



If you *change* your **position** - you have **velocity**

If you *change* your **velocity** - you have **acceleration**

if you *change* your **acceleration** - you have **jerk**

don't fall ... **Let's Fly !**



Matt Schmidt
Public Sector Sales
Director
Kasten by Veeam



David Sperbeck
DevSecOps Capability
Lead
GDIT



Andrew Fichter
Director, VA Lighthouse
Developer Experience
US Department of Veterans
Affairs



James "Guideaux" Crocker
Chief Technology Officer,
HNII
United States Air Force

Networking Reception



carahsoft®

carahsoft®

CPE CREDIT

To ensure you receive your onsite CPE credit, you must complete this survey at the conclusion of the event.





PLATINUM



GOLD



SILVER



BRONZE

