

EMERGE 2019

ART OF THE POSSIBLE

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Delivering Velocity Through DevSecOps

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MARKET LANDSCAPE - INDUSTRY TECHNOLOGY TRENDS

DISRUPTORS

Cloud | IaC | SDx | Open Source | SRE

SOFTWARE DEVELOPMENT

Application Security

Microservices

Software Supply Chain

Human-Centered Design

Containers

Test Automation

INFRASTRUCTURE & OPERATIONS

Hyperconverged Infrastructure

Hybrid / Multi-Cloud

Container Orchestration

Serverless

Agile Delivery

Customer & User Experience

API Management

Auto-Provisioning

Self-Service Portals

GOVERNMENT DRIVERS FOR CHANGE

- Lengthy “time to market” for new mission capabilities and solutions
- Demand for citizen services that mirror consumer-like experiences
- Need to increase speed to ATO and ensure ongoing RMF compliance
- Desire to migrate to the Cloud - securely
- Too many manual processes
- Cultural barriers to transformation

1 to 4

weeks time to restore service

1 to 6 months

time from code commit to production deployment

33%

of Agile & DevOps transformations run separately

30%

manual effort spent on configuration management

55%

Digital transformation impeded by inability to change culture

46%+

change failure rate

ACCELERATING VELOCITY THROUGH DEVSECOPS

ACHIEVING THE LEAN ENTERPRISE

AGILE SERVICE DELIVERY – AT SCALE

Agile at Scale Frameworks

Portfolio Perspective

Lean & HCD for
Prioritization

Product vs. Project

DEVSECOPS

Culture Change

Shift-left Security

Measure Everything

Automate Everything

Defined Value Streams

Mission Enablement

Multi-tenant and Partitioned

ENTERPRISE CONTAINER PLATFORM

Centralized Cluster Management

Centralized Monitoring

Application Onboarding

Hybrid Environments

ESTABLISHING A MODERN DEVSECOPS PLATFORM



SOFTWARE SUPPLY CHAIN AUTOMATION

Provides
continuous
integration and
delivery



SHIFT-LEFT SECURITY

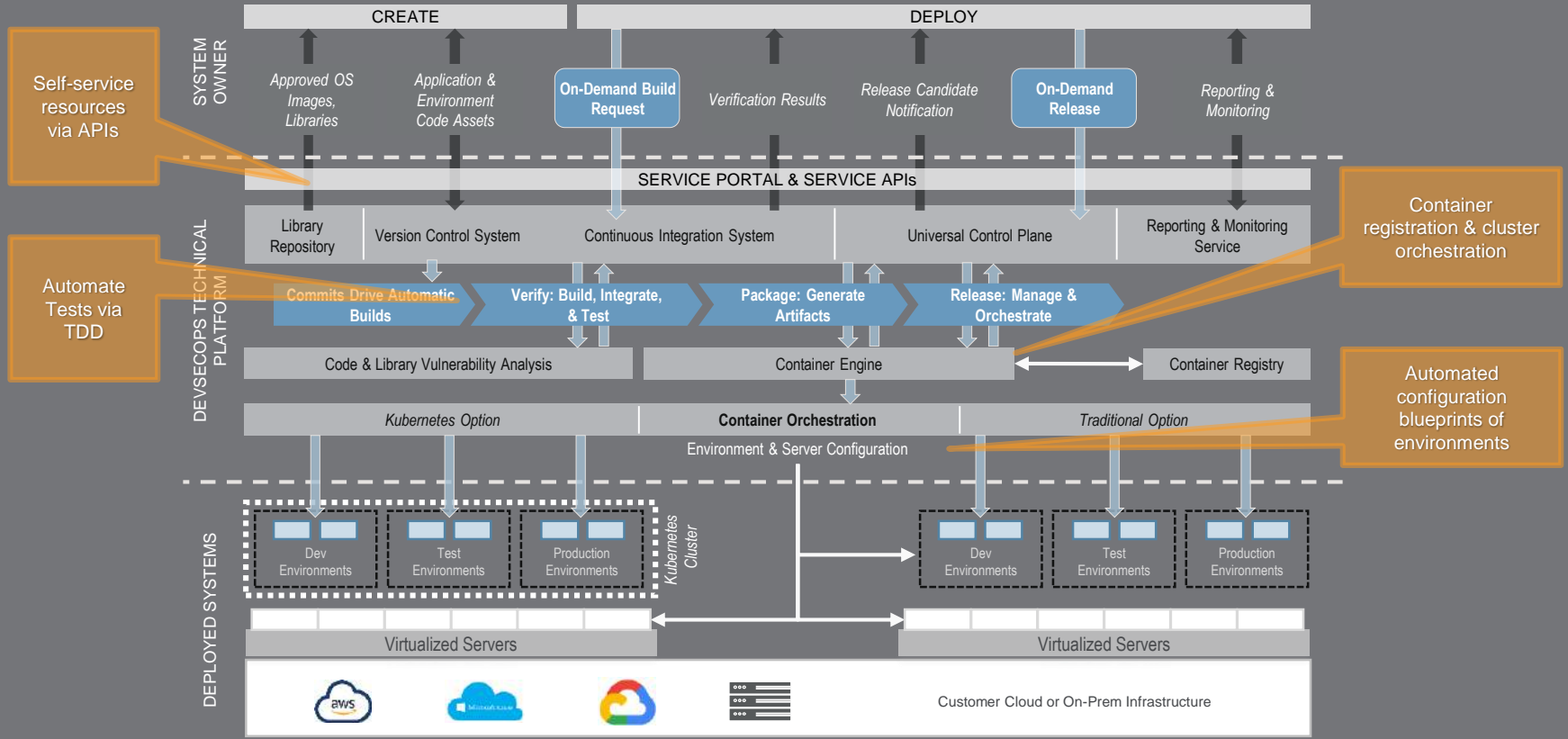
Improves security
posture through
early and
continuous
security evaluation



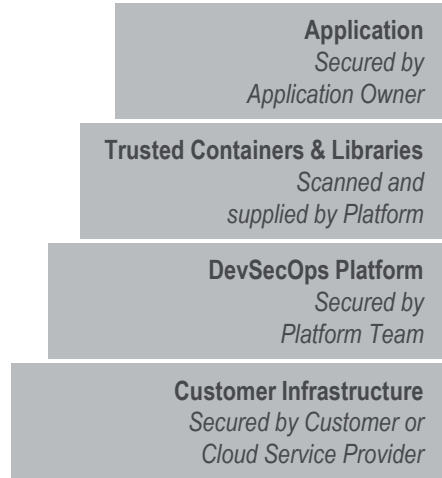
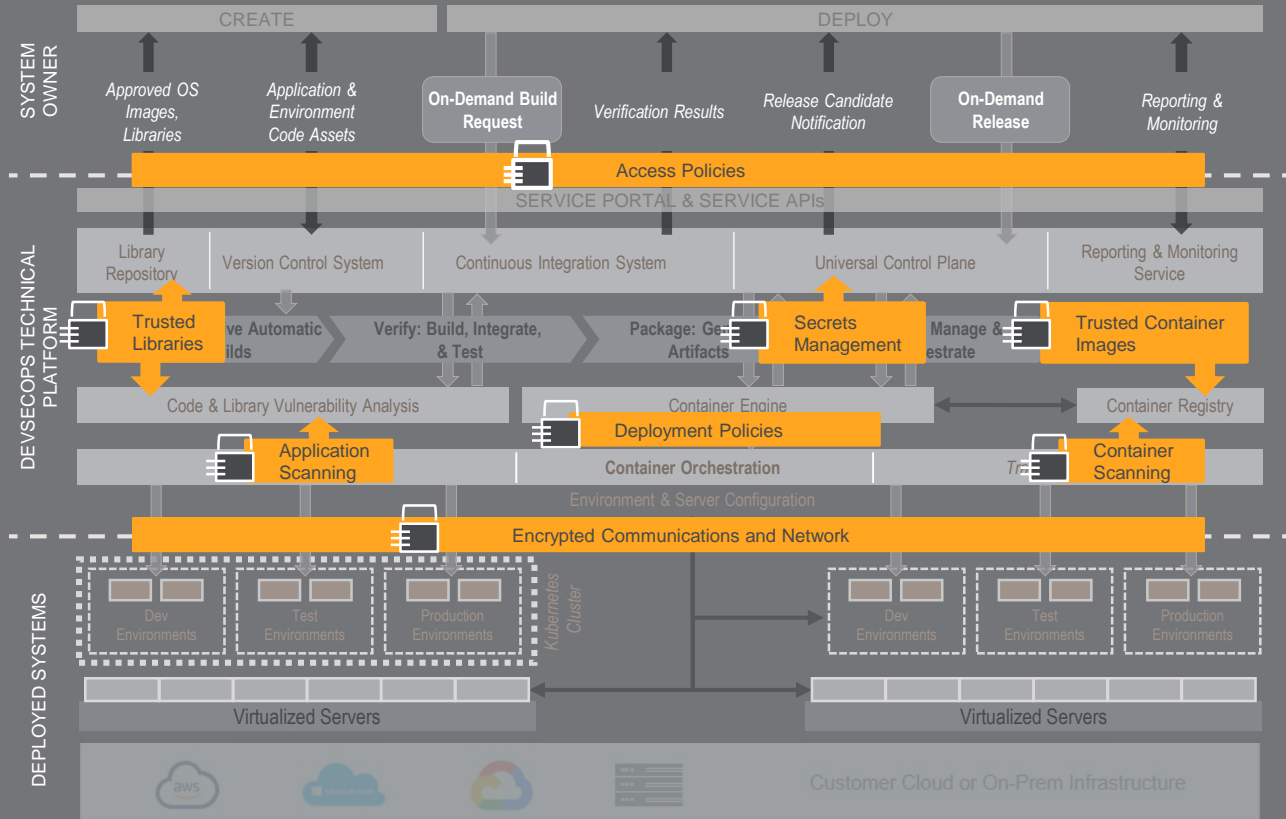
CULTURE CHANGE

Most common
barrier to
DevSecOps
transformation

POWERED BY DELIVERY AUTOMATION



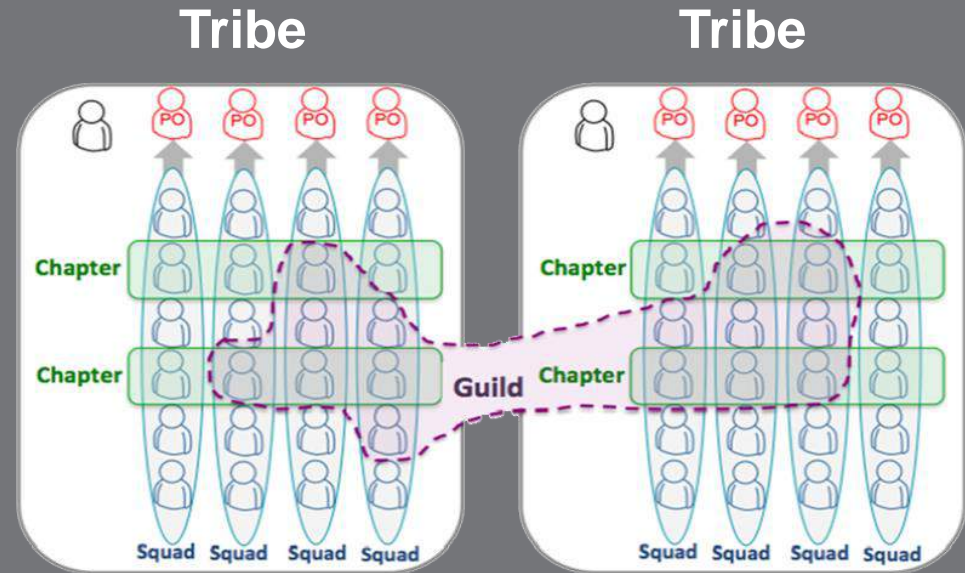
ENABLING CONTINUOUS SECURITY



LAYERS OF INHERITED SECURITY CONTROLS REDUCE ATTACK SURFACE AND MINIMIZE SCOPE OF APPLICATION ATO

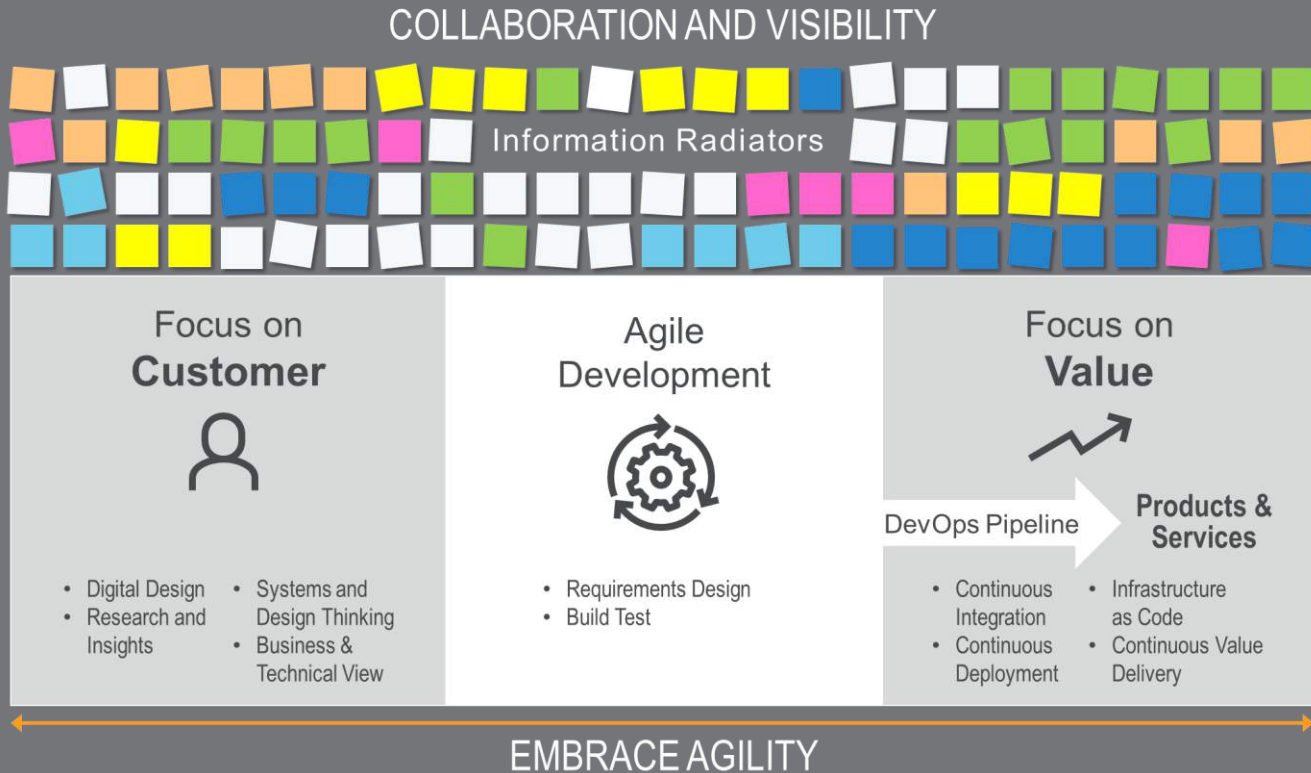
DRIVING TRANSFORMATION THROUGH CULTURE CHANGE

- Embrace agility
- Promote rapid delivery, lean processes and short lead times
- Know your value streams
- Empower teams and whole-team accountability
- Recognize the value and voice of individuals
- Drive continuous improvement
- Reward experimentation and innovation
- Invest in coaching



DevOps is not a Technical Problem. It is a Business Problem!

OPTIMIZING VALUE DELIVERY VIA AGILE AND DEVOPS



THE ART OF THE POSSIBLE FOR ELITE PERFORMERS

- Products aligned with mission and user needs
- Fully automated flow from development to deployment
- Minimized attack surfaces
- Infrastructure delivered via APIs
- Deployment portability supporting Hybrid environments
- Culture of collaboration and innovation

46x

more frequent code deployments

7x

lower change failure rate

5%

manual effort spent on configuration management

2,604x

faster time to recover from incidents

On-demand deployments – multiple deploys per day

60

minute average time from code commit to production deployment