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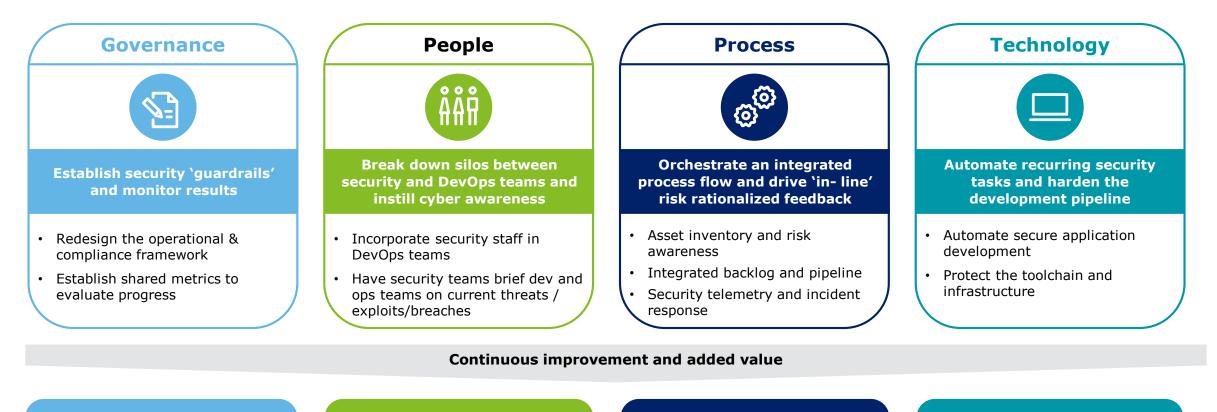
## DEVOPS ENTERPRISE SUMMIT

### **DevSecOps** Embedded Security Within the Hyper Agile Speed of DevOps

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### What is Dev**Sec**Ops?

A transformational shift which incorporates secure culture, practices, and tools to drive visibility, collaboration, and agility of security into each phase of the DevOps pipeline



#### Improve security and quality

- Increase deployment success rate
- Reduce meantime to resolve incidents
- Reduce number of open security defects

#### Improve time to market

- Increase production deployment frequency
- Greater speed of deployment

#### Improve compliance feedback

- Reduction in open compliance findings
- Decrease time from audit request to evidence delivery

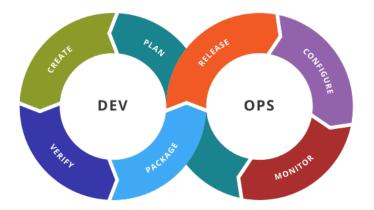
#### Improve productivity

- More story points per sprint
- Increase pipeline velocity
- Controlled production access

### From DevOps to DevSecOps

What is DevOps?

A set of practices that automates the processes between development and operation teams to build, test, and release software quickly and reliably



### Why security in DevOps?

- The ability to deploy applications has improved in both scale and speed while security considerations are often overlooked in favor of meeting business demands guickly
- Given the reliance of applications to keep operations running; security in the development process cannot be an afterthought
- Application security must speed up to keep pace with operations

### How can we bring security into DevOps?

- Tightly integrate security tools and processes throughout the DevOps pipeline
- Automate core security tasks by embedding security controls early on in the software development lifecycle
- Continuous monitoring and remediation of security defects across the application lifecycle including development and maintenance



### **Continuous security**

DevSecOps implements the 'secure by design' principle by using automated security review of code and automated application security testing



### **Increased efficiency &** product quality

Security issues are detected and remediated during development phases which increases the speed of delivery and enhances quality



#### Enhanced compliance

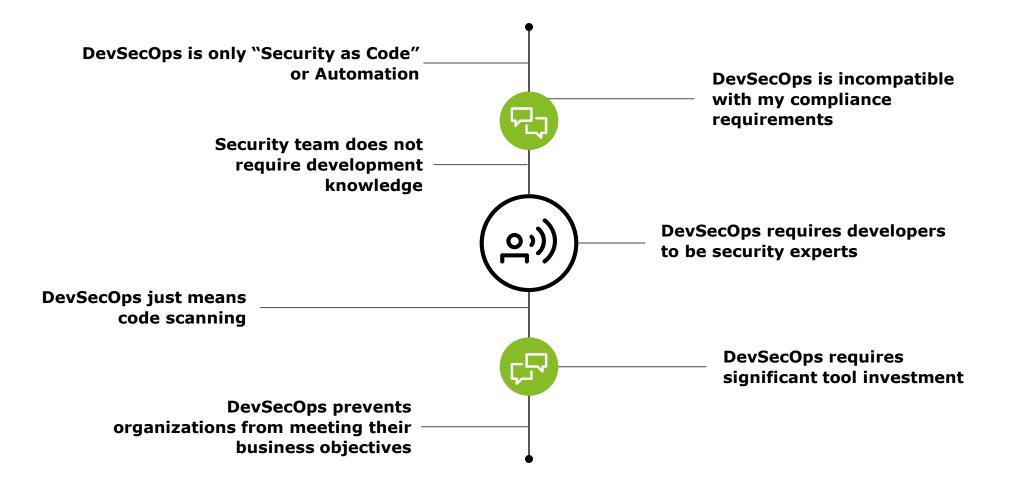
In DevSecOps, security auditing, monitoring, and notification systems are automated and continuously monitored, which facilitates enhanced compliance

### Increased collaboration

By integrating development, security and operations, DevSecOps fosters a culture of openness and transparency from the earliest stages of development

### Common myths and misconceptions

Perceived challenges and piece-meal integration often hinder organizations from realizing the value of incorporating security into DevOps



### A DevSecOps program requires continuous improvement to achieve desired efficiency

### **Strategic Goals**

### Strategy:

 Establish strategic drivers for DevOps teams to meet changing business requirements without excluding security and compliance needs

### **Cultural transformation:**

 Continuous enablement to initiate culture change to foster collaboration between developers, security teams, and operations.

### Architecture and Operations

#### Design:

 Design a DevSecOps operating model that includes designing data flows, developing standards, and mapping technologies and processes to core security operations

#### **Execution:**

 Implement new tools and processes to enable security in DevOps environment

**Continuous Process Improvement** 

### **Program Evaluation**

### Monitor:

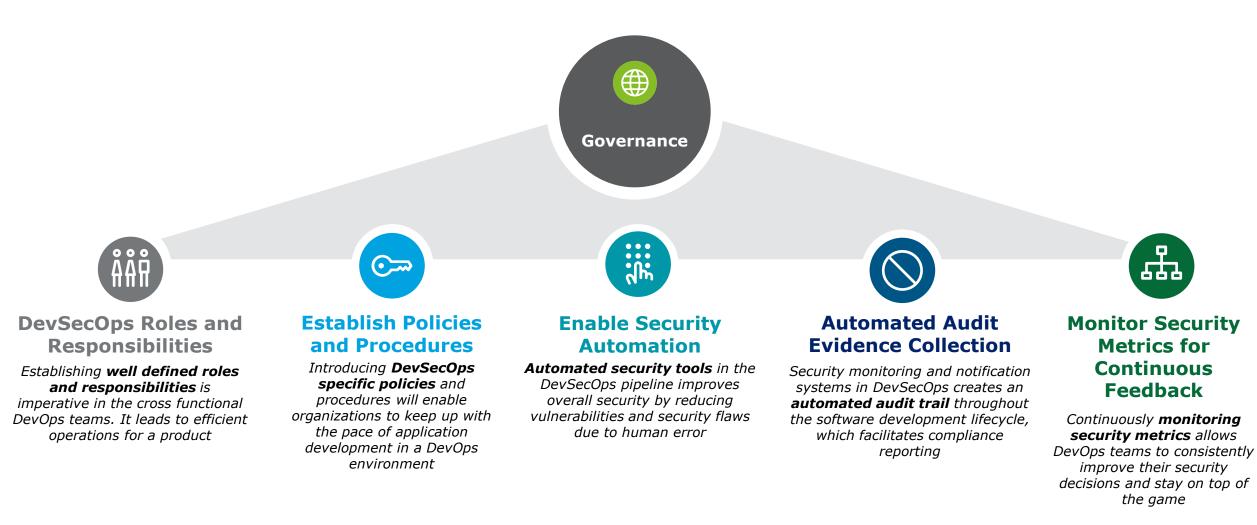
- Ensure processes are followed, maintained, reviewed and updated regularly
- Implement processes to perform lessons learned and evaluate policies and enhance training

### The DevSecOps transformation is achieved through following pillars:

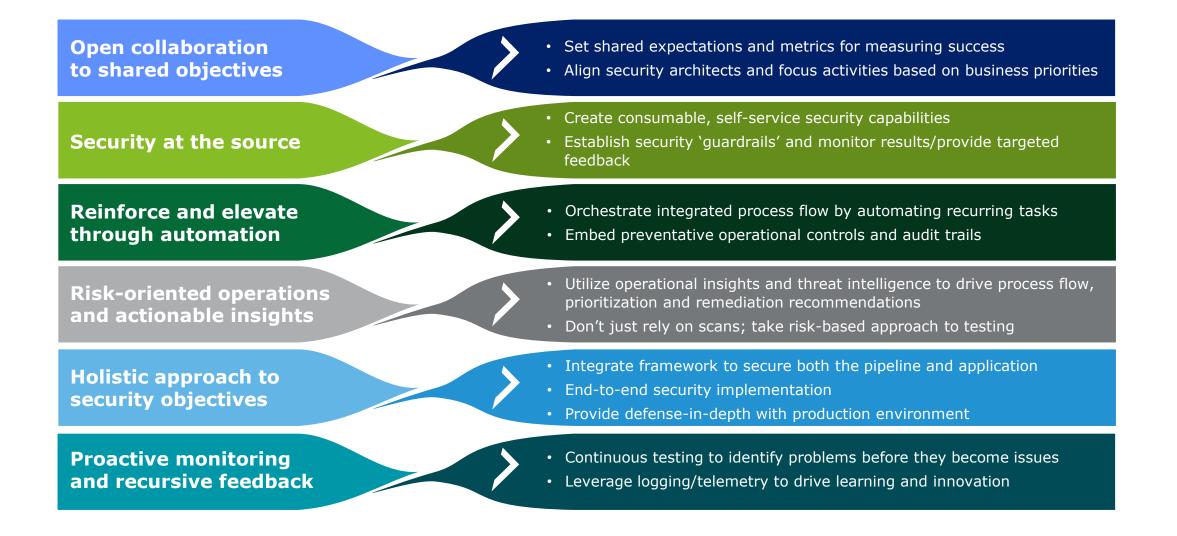


### Drive scalable governance for DevSecOps

The approach to develop a sustainable governance model is through enabling security services that are business aligned, agile, self-service and risk based



### DevSecOps success criteria





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