



# DIVING INTO DEVOPS WITH ARMOR

AUTOMATING DEPLOYMENT FOR IMPROVED SECURITY OUTCOMES

#### **SAM CORONADO**

Security Engineer

### **AGENDA**

- 1 DevOps & User Experience
- 2 Deployment for DevOps
- 3 Securing New Attack Vectors
- 4 Deployment with Common Tools
- 5 Q & A







### **SAM CORONADO**

Security Engineer

From infrastructure to policy, I support security system and service health. Before coming to Armor, I gained experience with web development and DevOps engineering.

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## DEVOPS & USER EXPERIENCE







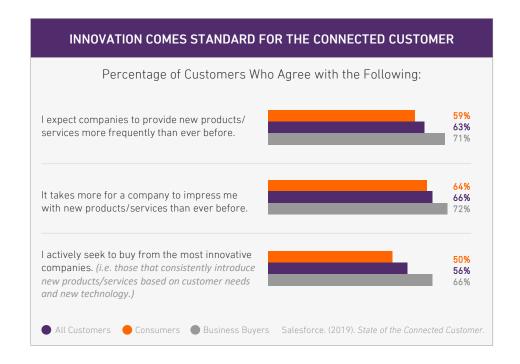
#### **DEVOPS & UX**

- Users expect rapid feature delivery
- Users expect maximum uptime
- Speed of software delivery is a competitive advantage



### **EXCEL OR DIE.**

- DORA. (2019). Accelerate State of DevOps 2019.







# DEPLOYMENT FOR DEVOPS







#### **DEPLOYMENT FOR DEVOPS**

- Deployment Automation is a critical function of elite DevOps teams
- Infrastructure-as-Code is key to repeatable infrastructure
- Software that requires minimal effort to securely install and configure can help your deployment velocity

AUTOMATION & INTEGRATION BY PERFORMANCE PROFILE				
	LOW	MEDIUM	HIGH	ELITE
Automated Build	64%	81%	91%	92%
Automated Unit Tests	57%	66%	84%	87%
Automated Acceptance Tests	28%	38%	48%	58%
Automated Performance Tests	18%	23%	18%	28%
Automated Security Tests	15%	28%	25%	31%
Automated Provisioning and Deployment to Testing Environments	39%	54%	68%	72%
Automated Deployment to Production	17%	38%	60%	69%
Integration with Chatbots / Slack	29%	33%	24%	69%
Integration with Production Monitoring and Observability Tools	13%	23%	41%	57%
None of the above	9%	14%	5%	4%

DORA. (2019). Accelerate State of DevOps 2019.





## SECURING NEW ATTACK VECTORS

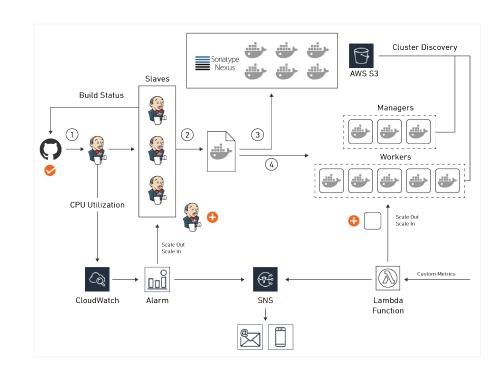






#### **SECURING NEW ATTACK VECTORS**

- With explosion of automation and CI/CD tools, attack vector area increases
- DevOps software and system operators are vulnerabilities too
- Attacks targeting common DevOps tools on the rise
  - XMRig/Monero JenkinsMiner attacks –
    \$3 million mined\*
  - CoinMiner campaigns creating malicious
    DockerHub images\*\*
- DevOps infrastructure can be the least protected but most connected in a given environment







#### ARMOR RECOMMENDATIONS

- Use Armor Anywhere to protect and monitor infrastructure running your tooling
  - Protect servers and containers from malware
  - Defense-in-depth for images that host malware
  - □ Vulnerability scanning, file integrity monitoring, log management, and intrusion detection on servers
- Automate deployment of Armor Anywhere with common tools
- Use Armor Automated Security & Compliance Prisma to automate monitoring cloud configurations
  - Misconfigurations are one of the most common ways data gets leaked or attackers gain access in the cloud enforce visibility and protection by default



# DEPLOYMENT WITH COMMON TOOLS







### **DEPLOYMENT WITH COMMON TOOLS DEMO**









#### **TAKEAWAYS**

Devops capabilities are a competitive advantange.
 Automate deployments as much as possible.
 Use Armor Anywhere and Armor Automated Security & Compliance –

Prisma to automate securing some of your most valuable assets.





Q & A

**SAM CORONADO** 

Security Engineer











### THANK YOU.

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