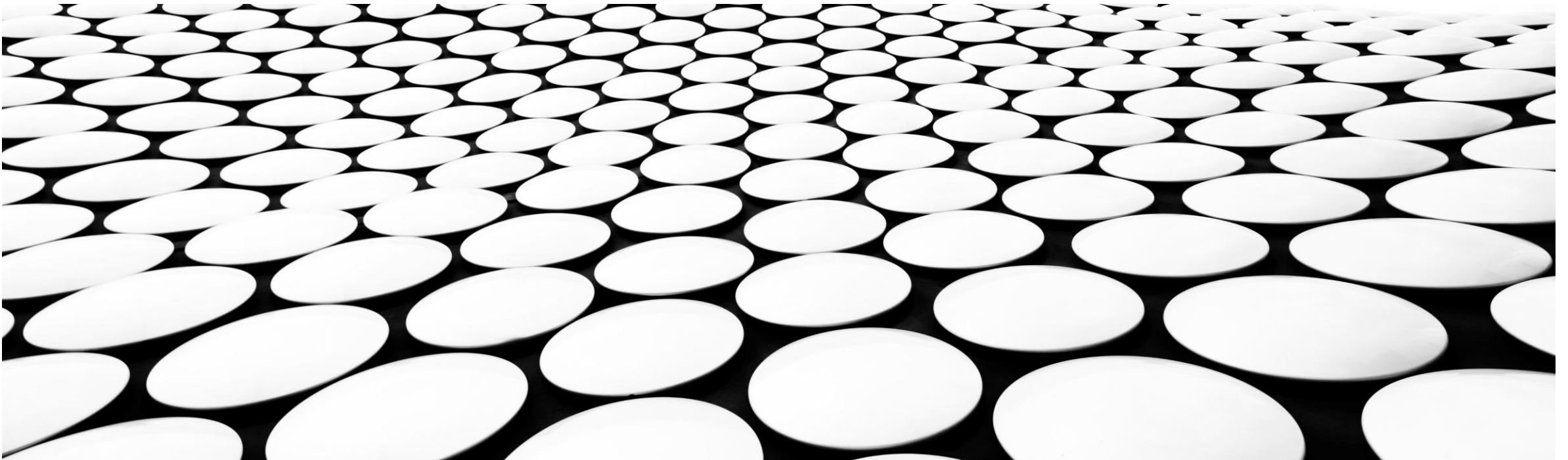

BUILDING A NEW PLATFORM ENGINEERING CAPABILITY THROUGH DEVSECOPS



AGENDA



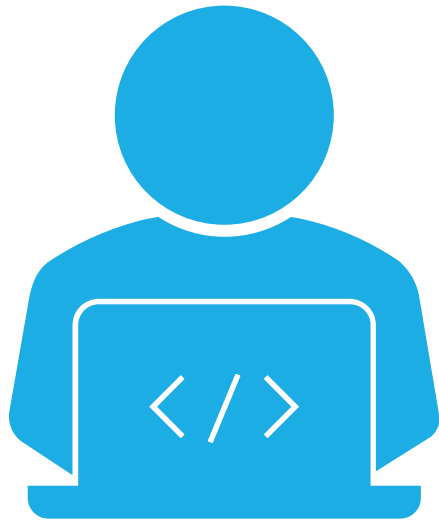
Integrating DevSecOps
Principles



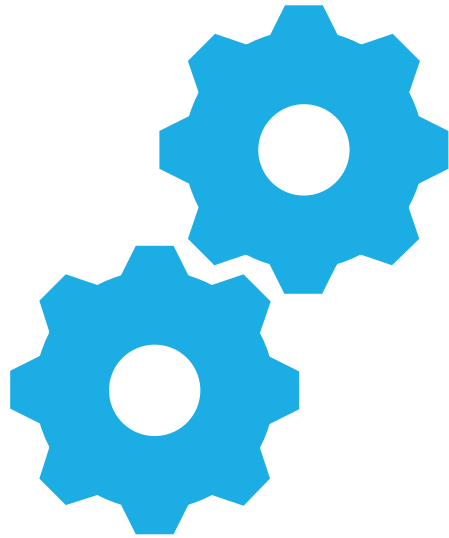
Security as Code (SaC)



Balancing Experimentation
and Pragmatism



DEVSECOPS & PLATFORM ENGINEERING



INTEGRATE DEVSECOPS PRINCIPLES INTO PLATFORM ENGINEERING

WHAT ARE THE BENEFITS

- Enhanced Security
- Faster Delivery
- Improved Collaboration
- Compliance and Governance
- Resilience and Reliability
- Cost Efficiency

```
query = f"SELECT * FROM users WHERE  
username = '{username}' AND password  
= '{password}'"
```



```
cursor.execute(query)
```

```
query = "SELECT * FROM users WHERE  
username = %s AND password = %s"
```



```
cursor.execute(query,  
(username,password))
```



WHAT IS SECURITY AS CODE (SAC)?

EMPOWERMENT: HOW SAC EMPOWERS PROACTIVE CYBERSECURITY MEASURES



**CONSISTENT
SECURITY POLICIES**



**AUTOMATED
SECURITY CHECKS**



**EARLY DETECTION OF
ISSUES**

IMPLEMENTATION: EXAMPLES OF SAC IN THE DEVELOPMENT PIPELINE

- Static Application Security Testing (SAST)
- Dynamic Application Security Testing (DAST)
- Dependency Scanning

Pranit Dharmadhikari created pipeline for commit [REDACTED] 2 days ago, finished 2 days ago
d merge request !3 to merge [REDACTED]
merge request 9 jobs 3 minutes 41 seconds, queued for 13 seconds

line Jobs 9 Tests 0

jobs by Stage Job dependencies

validate-version

✓ verify_version



code-quality-sca...

✓ sonar



code-security-scanning

✓ coverity_sast_perform_scan



✓ coverity_sast_transform_results



✓ coverity_sast_trigger_break_build



✓ veracode_sca_perform_scan



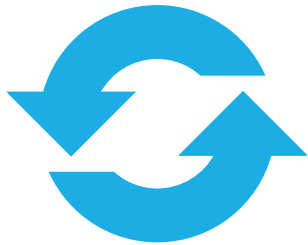
✓ veracode_sca_transform_results



✓ veracode_sca_trigger_break_build



EXPERIMENTATION: THE ROLE OF EXPERIMENTATION IN DEVSECOPS



**Continuous
Improvement**



Risk Mitigation

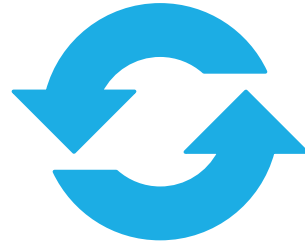


Adaptability

BALANCING EXPERIMENTATION AND PRAGMATISM



Prioritization of Security
Tasks



Continuous Feedback
Loops



Scalability and
Efficiency

SUMMARY



**FEEL FREE TO
REACH OUT**



Pranit Dharmadhikari
Network Software Engineer |
DevSecOps Enthusiast

