

Platform Engineering Meets SCM

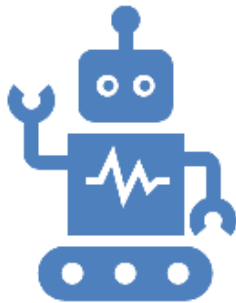
Unified Policies, Access, and Automation Across Git Systems

Vasdev Gullapalli
Qualcomm Inc.



Who Am I?

Vasdev Gullapalli, MBA/MS, Senior Staff IT Engineer/Manager at Qualcomm, leads global teams and strategy for Git-based platforms, delivering secure, scalable, and developer-friendly systems that accelerate software delivery worldwide.



Managing GitHub, GitLab, and Gerrit for 50K+ engineers isn't just infrastructure—it's platform engineering.



We unified access, security, and automation across SCMs to deliver scalable, developer-first experiences in a multi-Git world.

Problem



FRAGMENTED
ACCESS & POLICIES



COMPLIANCE DRIFT
ACROSS SYSTEMS



MANUAL
PROCESSES
SLOWING VELOCITY

Why SCM = Platform Engineering

+
•
0



SCM IS THE BACKBONE
OF DEVELOPER
PRODUCTIVITY



NOT INFRA → PLATFORM



TREAT SCM LIKE A
PLATFORM WITH
GOVERNANCE BUILT-IN

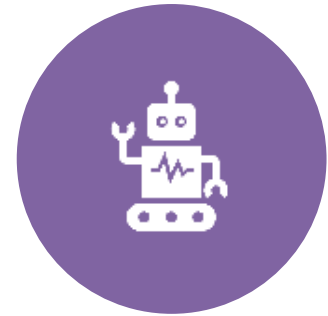
Developer-First Experience



SELF-SERVICE USER MANAGEMENT
(ACTIVATION, DEACTIVATION,
REACTIVATION)



AUTOMATED PROJECTS CREATION,
ACLS, CI/CD PIPELINES, DATA
MANAGEMENT ETC



AI-BASED CODE REVIEWS

Unified Access & Policies

SCIM + SSO enforcement

Repo classification by sensitivity

Time-bound external collaborator access

Anomaly detection

Automation Backbone



AUDIT LOGS



EVENT BASED
LISTENER



ACTIONABLE
RUNBOOK

Enterprise Governance

MSB

Policy-as-
code
enforcement

Code/Secrets
scanning

Centralized
audit
dashboards

Balancing Dev Experience & Security

Tiered security models



```
graph TD; A[Tiered security models] --> B[Embed controls into CI/CD]; B --> C[AI-driven adaptive policies]; C --> D[Developer Friction]
```

Embed controls into CI/CD

AI-driven adaptive policies

Developer Friction

Results

- 50K+
engineers
unified

Reduced
access sprawl
by 46%

Automated
compliance
enforcement

Faster User
onboarding
(30min)

Lower
incident
response
times by 73%

Looking Ahead



AI-DRIVEN SCM PLATFORM
ENGINEERING



PREDICTIVE SECURITY
ANALYTICS



DEVELOPER PRODUCTIVITY
+ COMPLIANCE HARMONY

Thank you!