

# Site Reliability Engineering (SRE) Foundation<sup>SM</sup> BLUEPRINT

Site Reliability Engineering (SRE) is a discipline and a role that incorporates aspects of software engineering and applies them to infrastructure and operations problems to create ultra scalable and highly reliable distributed software systems.

#### Culture

Reliability @ Scale, Shift-Left "Wisdom of Production", Learn from Failure, and Continuous Learning

#### Toil Reduction

Reduce Non-Value Add Work using Tooling, Automation, VSM, and Platform Engineering

#### SLAs/SLOs/SLIs

Metrics such as Availability, Latency, and Response Time with Error Budgets

#### Measurements

Observability, Monitoring, Telemetry, Instrumentation, and AlOps

## △ Anti-Fragility

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Improve Resilience using Fire Drills, Chaos Engineering, Security and Automation



Address Technical Debt in Small Increments, Manage Load Percentage for Ops, Dev, and On-Call Work

# ...-<sup>⊥</sup><sub>−</sub>... Deployments

Progressive Deployments using Green/Blue, A/B, Canary Deployments, Automation Scripts, Testing and Monitoring

### <u>//</u> Performance Management

Monitoring, APM, Capacity Testing, Auto-Scaling, and AlOps

#### 🖉 Incident Management

Emergency Response, On-Call, and Blameless Retrospectives

