

SRE Quick Reference

From Chaos to Confidence

► The Four Golden Signals

Latency	Time to service requests (p50, p95, p99)
Traffic	Demand on your system (requests/sec)
Errors	Rate of failed requests (5xx, timeouts)
Saturation	How full your service is (CPU, memory)

► SLO Formulas

Availability	(successful requests / total) x 100
Error Budget	100% - SLO target (e.g., 0.1% for 99.9%)
Burn Rate	Error consumption / time elapsed
Time to Exhaust	Remaining budget / burn rate

Performance & Response

► DORA Metrics

Deploy Freq	Elite: on-demand, multiple/day
Lead Time	Elite: <1 hour commit to prod
Change Fail	Elite: <5% of changes fail
MTTR	Elite: <1 hour to restore service

► Incident Severity

SEV1	Critical: >50% users, page immediately
SEV2	Major: Feature down, notify on-call
SEV3	Minor: Degraded, business hours
SEV4	Low: Cosmetic, queue for sprint

Remember: Elite teams achieve BOTH high velocity AND high stability

Reliability & Practice

► Cost of Nines

99%	3.65 days downtime/year (\$)
99.9%	8.76 hours downtime/year (\$\$)
99.95%	4.38 hours downtime/year (\$\$\$)
99.99%	52 minutes downtime/year (\$\$\$\$)

► Chaos Engineering

Hypothesis	Define expected steady state
Experiment	Inject real-world failures
Minimize	Limit blast radius carefully
Learn	Improve resilience from findings