

Performance Testing Basics

- Define SLO-aligned performance goals
- Run baseline, load, stress, and soak tests
- Analyze response time and error-rate behavior

References: <https://grafana.com/docs/k6/latest/> | <https://sre.google/sre-book/service-level-objectives/>

k6 for Practical Performance Checks

- Write JavaScript-based load scenarios
- Integrate runs into CI for regressions
- Use thresholds to fail builds on critical degradation

References: <https://grafana.com/docs/k6/latest/>

Accessibility Testing Foundations

- Use WCAG as baseline standard
- Automate common checks with tools like axe
- Add keyboard and screen-reader manual checks

References: <https://www.w3.org/TR/WCAG22/> | <https://www.deque.com/axe/>

Security Testing in QA

- Prioritize top web risks from OWASP
- Include misuse/abuse scenarios in test design
- Collaborate with AppSec for deeper assessments

References: <https://owasp.org/www-project-top-ten/>

Reliability and Observability

- Use logs, metrics, traces to investigate failures
- Design tests to expose operational risk
- Collaborate with SRE/DevOps on incident learnings

References: <https://opentelemetry.io/docs/> | <https://sre.google/sre-book/table-of-contents/>

