

# How To Scale Chaos Engineering

Scaling Chaos Engineering is all about standards, processes, and efficiency. You need to build replicable testing practices that can be adopted by teams across your organization.



## PHASE 1: PROVE VALUE WITH A SINGLE SERVICE

### 1. Select a critical service to maximize impact



For your first service, start with one where an outage would have the biggest customer impact to get the most value from your testing.

Common critical services:

Checkout application  Billing data processor  Authorization verification

### 2. Define Health Checks from customer-impacting metrics



A [Health Check](#) monitors systems before, during, and after a test. Use metrics that impact users, such as the [four SRE Handbook signals](#).

Common health checks:

Latency  Error rates  Request rates

### 3. Discover and test dependencies



[Map your dependencies](#), then test how your service reacts to dependency outages. These tests alone can take services from 99.9% to 99.99% uptime.

Common dependencies:

Databases  API calls  Content Delivery Networks

### 4. Start with the most common failures



Most outages are caused by the same [common failure modes](#). Start with these failures, then you can add tests unique to your architecture.

Common failures:

Scalability  Redundancy  Latency

### 5. Interpret test results and take action

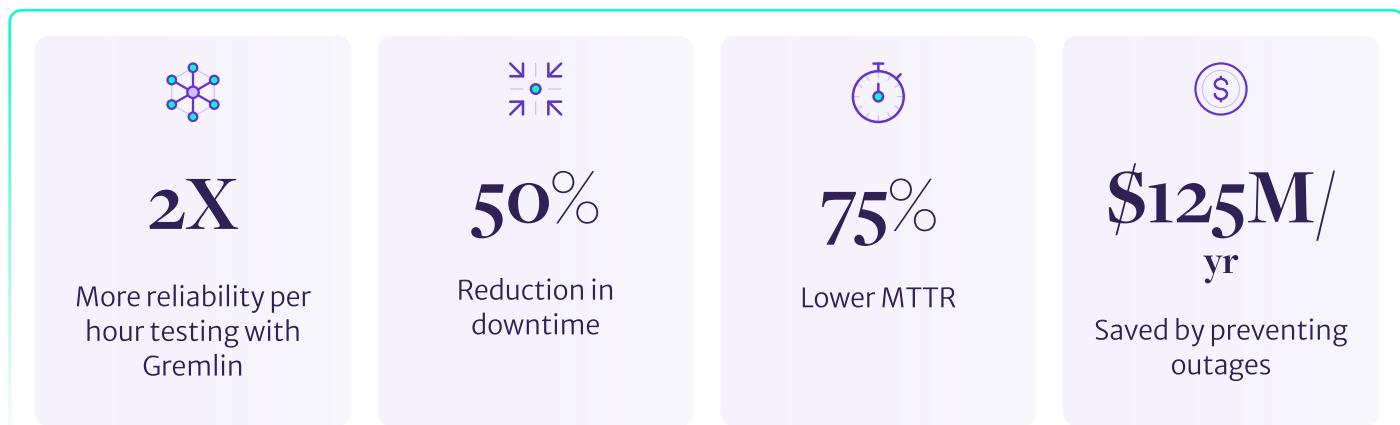


Address risks uncovered by failed tests by [analyzing results](#) and adding work to sprints. Use possible customer impact to prioritize fixes.

Common issues:

Timeout mismatches  Misconfigured autoscaling  Misconfigured failovers

## PHASE 2: SCALE AND IMPROVE



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Holiday sales were tremendous success without any major issues. Gremlin helps us to raise our bar.

-Lead Performance Engineer, Sephora

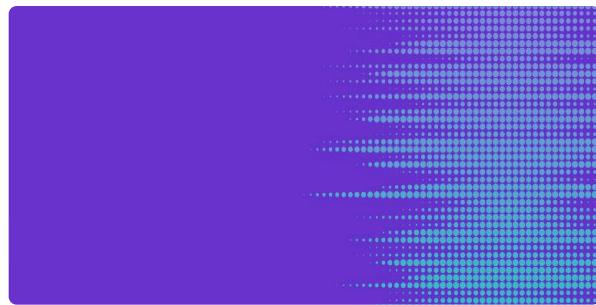
## FURTHER READING



### Measuring the impact of your reliability work with reports

February 6, 2024 – 3 min read

Learn how Gremlin's built-in reporting tools track your reliability work, find high-priority risk in your environment, and demonstrate your progress towards greater reliability.



### How the Gremlin agent fails safety

January 29, 2025 – 8 min read

Learn how Gremlin's built-in reporting tools track your reliability work, find high-priority risk in your environment, and demonstrate your progress towards greater reliability.



### Reliability Intelligence: your reliability expert

August 10, 2025 – 4 min read

Gremlin's Reliability Intelligence combines Experiment analysis, Recommended Remediation, and an MCP Server to help teams increase reliability faster than ever.



### Your reliability scorecard: How to measure and track service reliability

March 5, 2024 – 4 min read

Learn how Gremlin helps you track and manage your progress towards improved reliability with its comprehensive, built-in reporting tools.

**Ready to scale reliability and meet your uptime goals?**

Schedule a call with a reliability expert at [Gremlin.com](https://Gremlin.com)

Take our [self-guided Gremlin product tour](#)

