10 LESSONS LEARNED IN 10 YEARS OF SRE

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SRECON’21 – 12-14 October 2021
My SRE Journey

2011
SRE Intern

2012
Junior SRE

2015
Senior SRE / SRM

2018
Staff SRE

2021
Still Here 😊

Google
(CorpEng)

Google
(Ads Stats)

Google
(GCP)

Microsoft
(Azure)
Starting SRE
Know what you want from SRE

First question: why?

SRE can be highly beneficial but can also be very expensive.

When you start to “do SRE,” write down:
• what you want to get out of it
• how you’ll measure success
Align with business goals / customer needs

SRE must serve business goals

**Anti-pattern**: SRE roadmap drifts from product dev roadmap

**Best practice**: establish feedback loops
Expertise matters

Sometimes, generalists are not sufficient

**Best practice:** seed teams with T-shaped experts
You cannot declare “SRE”

Introducing SRE is a **cultural change**

Measure progress towards stated goals

Other proxies of success
• How the product dev teams interact with SRE teams
• The type of projects that the SRE team undertakes
• The presence of an SRE community
• Measurement and improvement of service reliability
Build trust

SRE relies on **shared ownership**

Trust is **vital**

Levels of trust
- Executives
- Engineering managers / senior SREs
- Engineers

Ways to establish trust
- Alignment and advocacy through continuous bidirectional feedback loops
- Delivery of complete, incrementally more impactful projects over time
Steady-state SRE
Finish what you start

It is **hard** to stay focused

SRE teams may overestimate their project capacity

**Antipattern:** eternal projects

What if the current projects are not the best way to spend your time?
• Cancel
• Plan and negotiate exit

Invest SRE time in successful, meaningful projects and programs
Be wary of “SRE services”

**Antipattern:** SRE-owned services with no dedicated staffing

Recommended tactics:
- Influence platforms to support missing use cases
  - Including direct contributions
- If a new platform is needed, seek funding

Think twice before *accidentally* creating an *unsupported critical service*
Be wary of “scaling SRE”

**How** Why do you scale SRE?

Do not disrupt your contact surface with the production environment

Do not overreach

**Ideas for scaling sub-linearly**

- Influence the internal production platform
- Implement lightweight short-term SRE team topologies
Stay humble

SREs, by necessity, are excellent engineers

SREs, by trade, develop key knowledge and skills

SREs, by design, work across teams

*Therefore* SRE *may* develop a tiny bit of hubris and arrogance 😊

It is essential that SREs stay humble

Keep asking questions with respect, an open mind and positive attitude
Talk more

Our profession relies on collaboration

Share problems and solutions within SRE

Invest in your network

Just talk more and have fun 😊
THANKS!

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