

About Me

- 42 years, married with 2 kids
- From Uppsala, living in Stockholm
- MSc Engineering Physics + Economy
- Experience from Vodafone, Ongame, Nokia, NetEnt and now SEB
- cloudcloud.dev



What SRE is NOT:

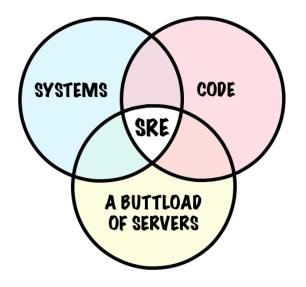
- A fancier title for SysAdmins
- DevOps with a new name
- What came before Platform Engineering



"SRE is what happens when you treat operations as a software problem."
- Ben Treynor, Google

What is SRE?

Site Reliability Engineering is a software-first approach to IT operations supported by a set of corresponding practices.





Product Development Capacity Planning Reliability Is the Most Important Feature of any Product. Testing + Release Procedures Your Users, Not Your Monitoring, Decide Your Reliability. Postmortems / Root Cause Analysis Incident Response Monitoring



```
class SRE implements interface DevOps {
```

. . .

}



DevOps

SRE

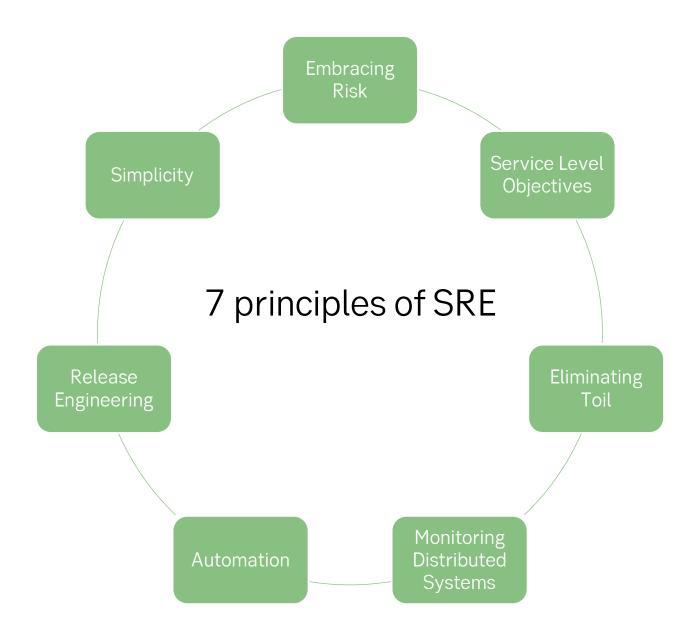
GOAL: Bridge the gap between development and operations

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DevOps is a mindset and culture of collaboration

SRE is a set of practices and principles

Birth date: 2009 by Patrick Debois, IT Consultant and Agile practitioner Birth date: 2003 by Ben Treynor, Google's VP of Engineering



Google SRE "Fun" Facts

- Google places a 50% cap on the aggregate Ops work for all SREs.
- The remaining 50% of a SRE team's time must be spent on development.
- Google's SRE team is one central organism, involved in everything from internal networking to developer tools, as well as customer-facing products.
- SRE support is not automatic or for all dev teams at Google. SREs are intentionally few in numbers.
- SRE teams are funded by the development teams and made up of at least six SREs each.



Site Reliability Engineering's role is to support the teams with Container Runtime Platform, CI/CD, Kafka as a Service, Cloud expertise, SRE practices and operational excellence.

Guiding Principles:

- · Inspire the use of new technology and best practices.
- · Lead with expertise and by example
- · Support with an open mind and curiosity
- Help to self help
- · Self-service is the best service

Engineering Principles of Operation:

Observability

Chapter

Identity Chapter

Site Reliability

Stockholm – Kyiv – Hyderabad

Network

Chapter

Container &

Delivery

Chapter

Kafka

Chapter

All team members have the same permissions to all systems and tools they are administering to avoid permission paralysis as well as spread knowledge and minimize single person dependencies.

All team members work off the same tech stack, some more skilled than others in their respective areas of interest but they are encouraged and supported to pair up for collaboration with other team members.

Members in all chapters have On-Call responsibility for the two On-Call streams in SRE, Network and SRS (Site Reliability Services).

Chapters are groups of Site Reliability Engineering team members working within a set functional area, sharing knowledge, tools, code and practices.



Job Ad for an SRE

As a Site Reliability Engineer (SRE) you are responsible for building and maintaining shared infrastructure running on both public and private Cloud, as well as developing automation and self-services for our development teams.

SREs are pragmatic operators and software craftspeople applying sound engineering principles, operational discipline, and mature automation to our environments and the codebase.

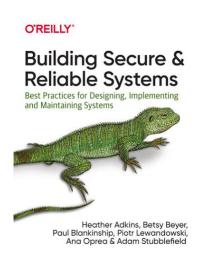
Who are you?

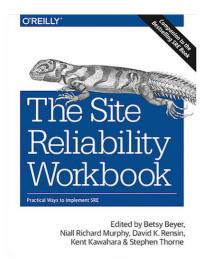
We believe that you are motivated with a DevOps, Agile and continuous learning mindset. You think about systems, edge cases, failure modes, behaviors and specific implementations. You have proven skills in crossteam collaboration and communication.

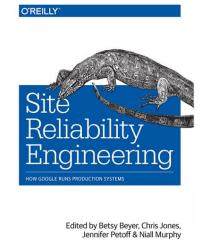
Skills:

- · Solid Linux background
- · Strong ops skills and mindset
- · Knowledge in Kubernetes
- Experience with cloud computing platforms such as AWS or GCP
- · CI/CD systems such as Jenkins, GitHub, ArgoCD or similar
- · Experience with SQL and NoSQL technologies
- Good coding/scripting knowledge and skills
- Understanding of networking tech
- · Background of working in the modern development organization









Read more (sre.google)