

Sela.

GDPSRE

Developing a Google SRE Culture

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Developing a Google SRE Culture

GDPSRE - Version: 1

 1 days Course

Description:

In many IT organizations, incentives are not aligned between developers, who strive for agility, and operators, who focus on stability. Site reliability engineering, or SRE, is how Google aligns incentives between development and operations and does mission-critical production support. Adoption of SRE cultural and technical practices can help improve collaboration between the business and IT. This course introduces key practices of Google SRE and the important role IT and business leaders play in the success of SRE organizational adoption.

Intended audience:

Primary audience: IT leaders and business leaders who are interested in embracing SRE philosophy. Roles include, but are not limited to: CTO, IT director/manager, engineering VP/director/manager. Secondary audience: Other product and IT roles such as operations managers or engineers, software engineers, service managers, or product managers may also find this content useful as an introduction to SRE.

Prerequisites:

No formal prerequisites required. Recommended pre-reading: Site Reliability Engineering: How Google Runs Production Systems - Chapter 1 Introduction



Objectives:

Discuss Google's view on DevOps philosophy, the relationship between DevOps and SRE, and the value SRE can provide to your IT operations

Articulate Google's technical and cultural fundamentals of SRE and how Google can help you jumpstart SRE in your organization

Assess your organization's maturity level in adopting SRE and identify what skills to look for in an SRE and how to train your existing workforce

Topics:

• Module 1: Welcome to Developing a Google SRE Culture

Module 2: DevOps, SRE, and Why They Exist

- Module introduction
- DevOps and SRE

Module 3: SLOs with Consequences

- Module introduction
- SRE value
- Postmortems
- Blamelessness and Psych Safety
- SLOs and error budgets
- Share vision and knowledge



Module 4: Make Tomorrow Better than Today

- Module introduction
- Continuous integration, continuous delivery, and canarying
- Design thinking and prototyping
- Toil
- Psychology of change

Module 5: Regulate Workload

- Module introduction
- Toil and reliability
- Goal setting

Module 6: Apply SRE in Your Organization

- Module introduction
- Organizational maturity
- Skills and training
- SRE teams
- Getting started

◉ Module 7: Final Assessment