

Implementing scaled agile framework to manage complex software development projects - abstract

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Abstract

The Scaled Agile Framework (SAFe) is one of the most widely adopted approaches for achieving business agility in dynamic environment. It combines principles of Lean Thinking, Agile ways of working, and DevOps practices to enable organizations to deliver complex, innovative products and services more effectively. When agile teams work on development initiatives, which can be scaled, coordinating efforts and managing dependencies across multiple teams becomes essential. Implementing SAFe provides a structured way to synchronize activities, improve collaboration, and maximize value delivery.

The tutorial aims to:

- provide a foundational understanding of the Scaled Agile Framework (SAFe);
- practice conducting key SAFe ceremonies, such as Program Increment (PI) Planning, Scrum of Scrums, and others;
- gain hands-on experience in forming Agile teams, planning iterations, refining and grooming the backlog, and related activities;
- explore Scrum and Kanban ways of working, including all mandatory ceremonies such as daily stand-ups, sprint planning, sprint reviews, and retrospectives.

Some of the research findings will be incorporated into the tutorial scope to demonstrate the application of Lean-Agile principles in managing complex software development projects and to share best practices, lessons learned, and potential enhancements to existing ways of working. The operating model comprises the following key components: formalizing organizational structure and governance, reviewing and defining ways of working, describing roles and responsibilities, establishing backlog management processes, planning and executing Agile events, and setting up and tracking performance metrics. Initial List of Topics:

1. Building Incrementally and Adopting Agile Ways of Working.
2. Preparing the Backlog.
 - a. Defining Features at the Programme Level.
 - b. Creating User Stories at the Team Level.
3. Planning and Executing the Program Increment (PI).
4. Iteration Planning and Execution.
5. Conducting Retrospectives and Driving Continuous Improvement.
6. Building in Quality through Inspect-and-Adapt Practices.

Keywords

agile, SAFe, scaled agile, incremental delivery, iterative delivery

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