

Master Thesis

Cloud Resilience – Migration from a Large-Scale Cloud Based Office Solution to Open Source

Topic

Conception, implementation and realisation of an emergency concept ‘Migration from a Large-Scale Cloud Based Office Solution to Open Source’

Description

The Fraunhofer-Gesellschaft uses a commercial, public cloud-based solution as the standard collaboration tool for its employees. Fraunhofer also operates an alternative solution based on open-source components. In cooperation with the Technical University of Munich, an emergency concept is to be developed as part of a master thesis: this concept should support the migration of potentially all approximately 30,000 users, including their data, from the commercial solution to the open-source system. Use case is the implementation of a possible ‘exit strategy’. Based on this concept, a larger test with several hundred users is to be carried out as part of an ‘emergency exercise’.

Task definition

- Conception (planning, preparations, necessary components, evaluation of basic procedures, etc.)
- Technical implementation (software installation, selection of appropriate tools, scripting, testing, documentation)
- Planning, execution and documentation of a comprehensive test by migrating a larger test group, including their data, from the public cloud system to the open-source solution.

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Prerequisites

- Good programming skills in one or more programming languages
- Basic knowledge of project management
- Good communication, systematic planning and documentation skills

Application

If you are interested, please send the requisite information BOTH to theses@isdo.cit.tum.de AND heinrich.opgenoorth@zv.fraunhofer.de .

The topic is available for an immediate start. No expose needs to be written.