

**Title:**

Virtualization using Xen

**Author:**

Oliver Oberst, KIT

**Abstract:**

The so-called platform Virtualization refers to the abstraction of computer resources. It hides the underlying hardware platform from the user by virtualizing the operating system environment.

One of The main benefits of virtualization are the consolidation of hardware infrastructures and ease of management of a heterogeneous software environment by hosting several services on one physical host and separating them in their own virtualized operating system.

Several virtualization solutions allow the computing infrastructure to be high available. Downtimes due to maintenance or hardware failures are at least minimised or rendered unnecessary.

This tutorial course will introduce the participants into virtualization using the Open Source virtualization solution Xen. The course will guide you through the first steps to implement a small High Availability solution.