



Elektrobit

Training description

EB corbos Hypervisor training

What you'll learn

The EB corbos Hypervisor training targets anyone who wants to learn about hypervisor technology in general and Elektrobit-specific implementation in particular.

Participants will gain deep knowledge about the fundamentals of a hypervisor, its architecture, and types, understand the principles of virtualization, and will learn how to install the EB corbos Hypervisor and configure it to their needs.

Why should you take this course?

- Learn to flash target, use U-Boot, and how to fetch the hypervisor via TFTP and boot HV on A-5x Point.
- Understand the content of the Hypervisor image, look at the initial configuration, and deploy the image on target hardware point.
- Build your own config and have it assembled and executed on the target hardware.
- Integrate a VM running Linux as guest operating system, do device pass-through, and adapt DTB.

Course content

- Introduction to platform virtualization
- Overview of the EB corbos Hypervisor
- Set up the target
- Manage the Hypervisor image
- Customize the Hypervisor and its main modules, add new VM, and give it shared memory access, network and eMMC access
- Integration with Linux: VMs, device tree binary (DTB), and Hypervisor interaction

How is this course delivered?

Delivery format: Classroom Virtual classroom Blended learning

Target group: Developers Architects Integrators Testers Managers

Duration: Blended learning: 1 day self-study plus a max. 4-hour Q&A session with the trainer

Language: Trainer: English
Training material: English

Limitations: The maximum **number of participants** for a class is limited to 15.



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Prerequisites

- Your own computer with Linux operating system, provided as virtual machine, local admin rights during the installation
 - Optional: Terminal software, e.g. Teraterm to connect the target to the personal computer via USB
- General scripting skills, e.g. Lua
- General understanding of processor architectures
- Basic operating system knowledge
- Basic Linux skills

Resources

- Training presentation slides (PDF)
- Required software for exercise environment
- Template files for the exercises
- Sample solutions for the exercises