Proxmox VE Clustering and Shared Storage

Course code: PVECSS

Proxmox VE (Virtual Environment) is an open-source virtualization platform built on KVM and LXC. It handles high-availability clusters, software-defined storage, and integrated backup via Proxmox Backup Server — with no hypervisor licensing fees and no vendor lock-in.The official Proxmox course in Slovak, hands-on. This training is not a lecture with a presentation. Each participant gets their own lab environment, where they get to try out the entire course on live servers — including things no one dares to test in production: node failure, cluster breakdown, restore from backup. The training is led by a Proxmox Certified Trainer. Every participant walks away with practical knowledge and a Certificate of Completion from Proxmox Server Solutions GmbH.

Who is the course for

For administrators planning a cluster, shared storage, and high availability.

Required skills

Completion of the Proxmox VE Deployment and Management course, or knowledge equivalent to the full scope of that training.

Study materials

Official training materials from Proxmox Server Solutions GmbH, in digital form.

- serve as a reference guide even after the training, not just a one-time handout
- exercises and assignments for individual modules are available on the training portal
- made accessible after payment and once training begins, under an individual login
- each copy is labeled with the participant's name and is not intended for further distribution

Course outline

- cluster architecture, pmxcfs and Corosync,
- cluster networking, redundancy, SDN,
- shared storage, Ceph deployment and management,,
- ZFS replication,
- migrating guests between nodes,
- high availability (HA),
- automation via REST API, troubleshooting.

Participant environment

Your own cluster, not a shared demo

- a dedicated lab environment with up to 4 nodes for each participant,

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- browser-based access — no need to install anything on your own computer,
- full administrator rights: participants install, cluster, break, and fix things themselves,
- the environment matches the course scenarios — cluster, shared storage, HA, backup,
- access to the environment continues after the training ends, so exercises can be completed

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