Proxmox VE – System Outages and Recovery

Course code: PVAOS

Proxmox Virtual Environment is a complete open-source server management platform for enterprise virtualization. This two-day course will guide you through failures of individual infrastructure components and their recovery to a fully operational state. We will simulate disk failures, host failures, network failures, configuration and settings errors, loss of virtual machines (VMs) or data, and their subsequent recovery.The course is intended for system administrators and IT professionals who want to effectively manage a virtualized infrastructure, learn how to back up system configurations, and perform recovery after failures of infrastructure components.

Who is the course for

- System administrators and IT specialists who already have experience with basic Proxmox VE administration
- Architects and DevOps engineers planning a cluster deployment or migration to HCI
- Administrators responsible for high availability (HA), backup, and disaster recovery

What we teach you

- Understand the fundamental principles of system configuration and recovery
- Perform backup and recovery of system configuration
- Configure a reliable, fault-tolerant system
- Recover the system after infrastructure component failures

Course outline

- Design and architecture of fault-tolerant systems
- Configuration backup and recovery
- Virtual machine (VM) backup and recovery
- Using snapshots
- Network configuration
- Storage configuration
- Working with High Availability (HA) clusters
- Single-node failure scenarios
- Multiple-node failure scenarios
- Recovery from individual component failures
- Recovery from disk failures
- Recovery from host failures
- Recovery from network failures or misconfiguration
- Recovery of lost virtual machines (VMs) or Linux containers (LXCs)
- Recovery from loss of access (password, MFA)
- Ceph recovery (disk failure, Ceph host failure)
- Recovery after system updates
- Notification configuration
- System monitoring

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