

PROXMOX VE

Introduction to Open-Source Virtualization
Platform

By NINE-T CO., LTD.

WHAT IS PROXMOX VE ?

- **KVM (Kernel-based Virtual Machine)** for full virtualization
- **First released in 2008**
- **Maintained by Proxmox GmbH,an Austrian Company**
- **Offers easy to user UI**
- **Ideal for Production workloads**





PROXMOX VE CORE FEATURES

Supports VM and LXC Containers

Web Based UI

Storage Support (ZFS, Ceph, NFS, iSCSI)

HCI-Like

High Availability (HA) Clustering

Backup and Restore including 3rd party tools

RBAC





ARCHITECTURE OVERVIEW

Proxmox Node : A Physical Server

VMs/Container : Hosted on Nodes

Storage: Internal Disk, Shared Storage (Ceph, SMB/CIFS, iSCSI, NFS)

Clustering : Multiple nodes working together

Web UI for Administrative tasks for all nodes and services



PROXMOX VE : STORAGE OPTIONS

- ZFS : With snapshot support and replication
- Ceph : Distributed, fault-tolerant
- NFS,iSCSI,SMB/CIFS for external storage support
- Local-LVM both thick and thin

Performance





PROXMOX VE : NETWORKING

Network Bridge


Firewall

VLAN Support

SDN

Edit: Network Device

Bridge:	<input type="text" value="vmbr2"/>	Model:	<input type="text" value="VirtIO (paravirtualized)"/>
VLAN Tag:	<input type="text" value="4"/>	MAC address:	<input type="text" value="BC:24:11:67:EB:CB"/>
Firewall:	<input type="checkbox"/>		

 Help

Advanced ☐

OK

PROXMOX VE : BACKUP AND HA

- Well-known 3rd party backup providers supported : Veeam, Storware, Nakivo ,etc.
- Proxmox Backup Server
- HA Manager
- Live Migration

BDRSuite
by Vembu





WHY PROXMOX VE ?

KVM based hypervisor

More than 19years in innovations

Active Support from Proxmox and
Community



**THANK YOU
FOR YOUR
ATTENTION**

