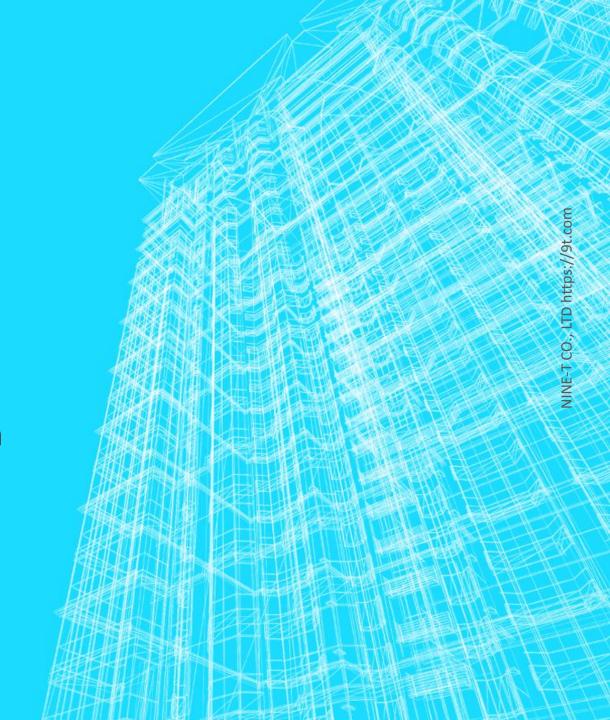
PROXIOX VE

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

Reads:

Writes:

IOPS: Reads:

1.63 TiB of 24.00 TiB

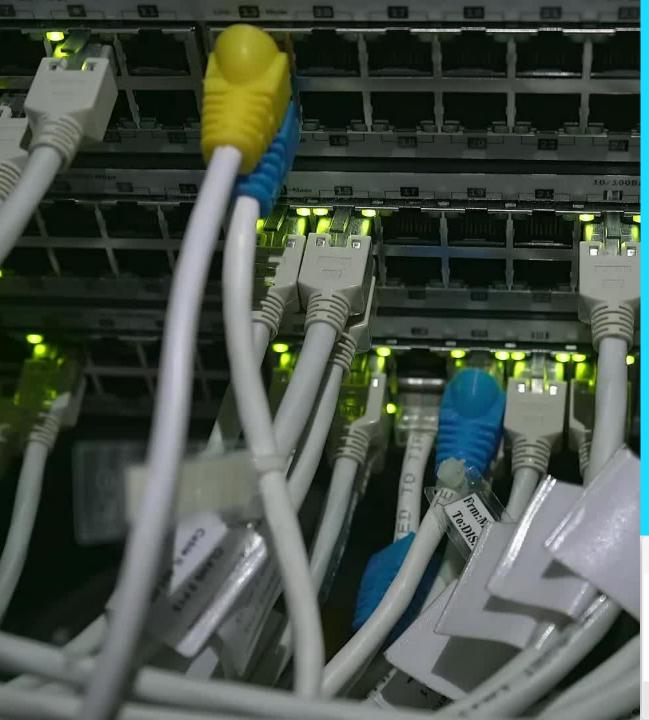
7%

Usage

IOPS: Writes: 2.67 KiB/s 2.67 KiB/s 35.41 KiB/s

0

5



PROXMOX VE: NETWORKING

Network Bridge

Firewall

VLAN Support

SDN

Edit: Network Device			5 ⊗
Bridge:	vmbr2 ~	Model:	VirtIO (paravirtualized)
VLAN Tag:	4 \$	MAC address:	BC:24:11:67:EB:CB
Firewall:			
Help			Advanced C OK

PROXMOX VE: BACKUP AND HA

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











WHY PROXMOX VE ?

KVM based hypervisor

More than 19 years in innovations

Active Support from Proxmox and Community

