HADIAH CLOUD COMPUTING

1. Apa yang dimaksud dengan Server Virtualization?
   - ⇨ Server virtualization is the process of dividing a physical server into multiple unique and isolated virtual servers by means of a software application. Each virtual server can run its own operating systems independently.
   - ⇨ Server virtualization adalah proses membagi server nyata menjadi beberapa server virtual yang unik dan terisolasi dengan menggunakan suatu aplikasi. Setiap server virtual dapat berjalan dengan operating system sendiri.

2. Bandingkan beberapa server virtualization berikut :
   - Proxmox VE
   - VMware vSphere
   - Windows Hyper-V
   - Citrix XenServer

Perbandingan	Citrix XenServer	Windows Hyper-V	VMware vSphere	Proxmox VE
Company	Citrix	Microsoft	VMware Inc.	Promox Server Solutions GmbH
Intended User	- Personal - Small-Medium Business - Enterprise	- Enterprise	-Enterprise	- Personal - Small-Medium Business
Notable Cutomers	- Essar Group, University of - Sao Paulo, Miami - Children's Hospital	-	-NYSE Euronext, Revlon, Ducati, ColiPoste, Dalet, ESSEC Business School, French Fire Department, Orange Business Services	Free Software Foundation Europe, Digital Media Distribution AG, Municipality of Trento, SwitchMIA, inDenova, Valmiera City Council, Alpha IT AS, ISCaD GmbH, Laut und Schoen, IT-Services - Hamburg e.K., KMI Learning, Dynacom Tankers Management
Hypervisor Type	- Bare Metal (Type 1)	- Bare Metal (Type	Bare Metal (Type 1)	Bare Metal (Type 1)
Virtualization Type	- Hardware Assisted Virtualization - Operating System	- Full Virtualization - Hardware Assisted Virtualization - Operating	- Full Virtualization - Hardware Assisted Virtualization - Operating	- Full Virtualization - Operating System Virtualization
Architecture	- x86, x64	- x86, x64	- x86, x64	- x86, x64

Supported Storage	- DAS - FC - iSCSI - NAS - NFS - SAS - SATA - SCSI - USB	- DAS - FC - iSCSI - SAS - SATA	- DAS - eSATA - FC - FCoE - iSCSI - NAS - RDM - USB	- iSCSI - NFS
Management Features	- Change Reports - Dynamic Resource Allocation - High Availability - Live Migration - Multiple Host Resource Pool - Performance Metrics - Performance Reports - Power Management - Real Time Alerts - Storage Migration - VM Migration	- Capacity Planning/Management - Change Reports - Configuration Snapshots - Dynamic Resource Allocation - High Availability - Live Migration - Performance Reports - Shared Resource Pools - Storage Migration - VM Migration	- Anti-Virus - Automated Workflows - Dynamic Resource Allocation - Failover - High Availability - Live Migration - Maintenance Mode - P2V Conversion - Shared Resource Pools - Thin Provisioning - VM Backup/Restore	- Capacity - High Availability - Live Migration - Storage Migration - VM Backup/Restore - VM Cloning
Supported Host Operating Systems	- Mandrake Linux - Novell Linux Desktop - Red Hat Enterprise Linux AS - Red Hat Enterprise Linux ES - Red Hat Enterprise Linux WS - Red Hat Linux - SUSE Linux - SUSE Linux Enterprise Server - Turbolinux Enterprise Server - Turbolinux Workstation - Windows 2000 Professional	- Windows Server 2008 R2		- Debian Sarge
Guest operating system support	- Most Windows OS, Linux support is limited	- Modern Windows OS, Linux support is limited	Windows, Linux, UNIX	- Windows and Linux (KVM)
Max. RAM and CPU per Host	-	- 64 CPU/1 TB Ram	- 160 CPU/2 TB Ram	- 160 CPU/2 TB Ram
Pricing	On-Premises Subscription - Standard - CPU Socket - 1 Year Software Maintenance - $348.00;	$2,999 per Processor Datacenter Processor + CAL* $6,155** Standard Processor + CAL*	VMware vSphere Essentials Kits - 1 Year - $560.00;	- Open Source

	- - 1 Year Software Maintenance - $690.00.	Essentials Server (25 User Account Limit) - $501** Foundation Server - (15 User Account Limit) - OEM only	3 Year - $666.60.	
License	- Proprietary	- Proprietary	- Proprietary	- Open Source (Free)
How To Manage	- XenCenter Windows *Management* Console	ProHVM(Hyper-V Manager) -	vMware Vsphere Client	CentralWeb-based Management