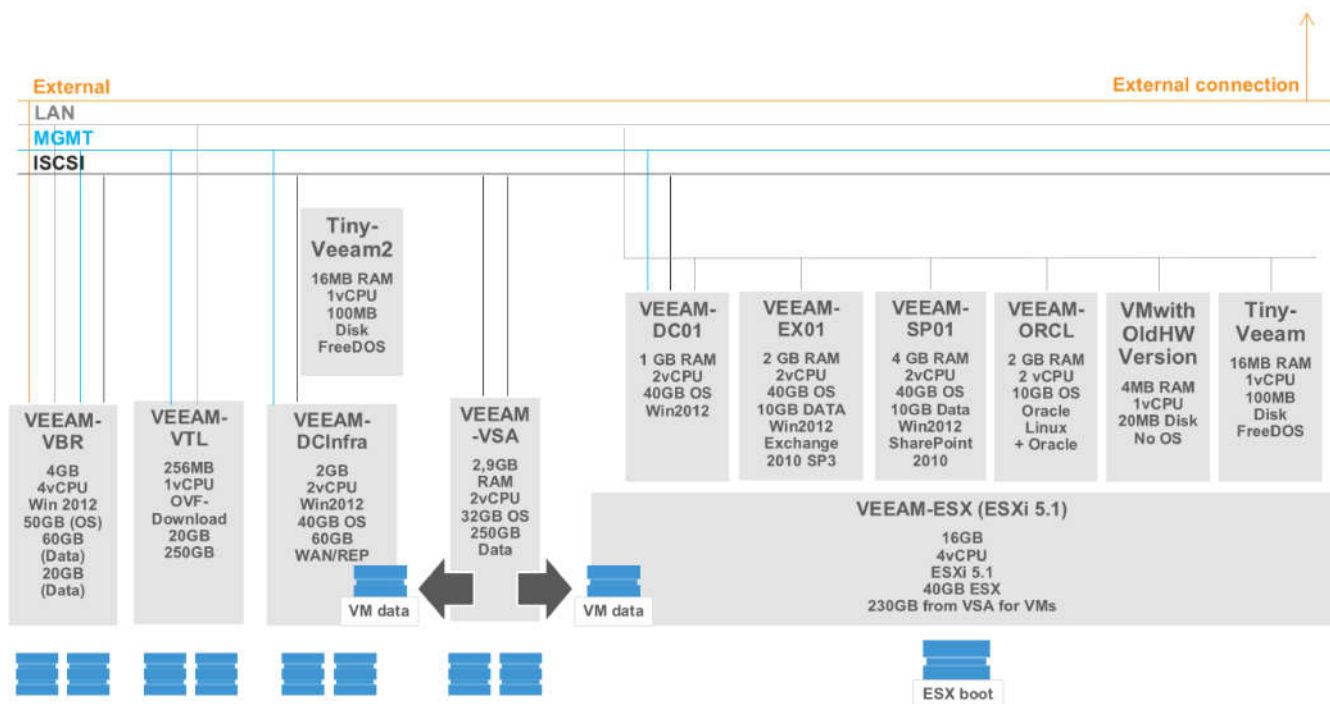


Important! The labs in this course are not modular. At the end of each lab, you can shut down and restart the virtual machines, but it is not required. Do not create snapshots of the virtual machines in the labs unless instructed to do so.

Each student will have their own lab with a number of template VMs. No VMs are shared between students. The instructor will tell you login details to your own VEEAM-VBR virtual machine.

All labs will be performed from the VEEAM-VBR virtual machine, unless otherwise stated.



VM name	Description
VEEAM-VBR	Veeam Backup and Monitoring Server that will be used for: <ul style="list-style-type: none"> <li>- Preinstalled Veeam Backup &amp; Replication</li> <li>- Preinstalled Veeam Enterprise Manager</li> <li>- Preinstalled Veeam ONE</li> <li>- Preinstalled RDP Client (to connect to other Lab VMs)</li> <li>- Preinstalled vSphere Client (to connect to own VEEAM-ESX host)</li> <li>- Preinstalled Microsoft Office including Outlook</li> <li>- Preinstalled Oracle SQL Developer (for Veeam Explorer for Oracle restore)</li> <li>- Preinstalled HPE VSA Storage Management Software</li> </ul>
VEEAM-DCInfra	<ul style="list-style-type: none"> <li>- Domain Controller for veeaminfra.local domain</li> <li>- Remote backup repository</li> <li>- Used for the installation of the second instance of Veeam Backup &amp; Replication</li> <li>- Hyper-V host</li> </ul>
VEEAM-VTL	<ul style="list-style-type: none"> <li>- Virtual Tape Library to demonstrate Tape functionality</li> <li>- Routing (Default Gateway for all Networks)</li> </ul>

VM name	Description
VEEAM-VSA	HPE LeftHand Virtual Storage Appliance (VSA) provides iSCSI LUN as datastore for all VMs on VEEAM-ESX host.
VEEAM-ESX	ESXi 5.1 Host (holds all VMs you can backup and monitor).
VEEAM-DC01 (Running on VEEAM-ESX)	Domain Controller of veeamlab.local domain where VMs located at the VEEAM-ESX host belong.
VEEAM-EX01 (Running on VEEAM-ESX)	Exchange 2010 Server used for backups and restores.
VEEAM-SP01 (Running on VEEAM-ESX)	SharePoint 2010 Server used for backups and restores.
VEEAM-ORCL (Running on VEEAM-ESX)	Oracle DB Server on a Oracle Linux System used for backups and restores.
VMwithOldHW (Running on VEEAM-ESX)	A VM with outdated hardware version used to illustrate monitoring.
Tiny-Veeam (Running on VEEAM-ESX)	A small FreeDOS VM used for backups and restores.
Tiny-Veeam2 (Running on VEEAM-DCInfra)	A small FreeDOS VM used for backups and restores.

In the lab we have two Active Directory domains – veeaminfra.local (where VEEAM-VBR is located) and veeamlab.local (machines located at the VEEAM-ESX host) in order to show:

- How Veeam Backup & Replication applies to domain accounts and domain groups for self-service scoping
- That your Veeam Backup & Replication installation can be in a different domain than the machines that are being backed up and restored
- What it is like working in a large environment

We use several function-related DNS aliases for VMs when those servers are operated in a specific scenario. Using DNS aliases is generally not the best practice infrastructure-wise, but in the lab it will highlight the purpose of the feature you are using and will demonstrate what a real-life scenario would be like.

DNS Alias	VM	Role
VEEAM-HYPERV	VEEAM-DCINFRA	Hyper-V host hosting Tiny-Veeam2 VM
VEEAM-REMOTE	VEEAM-DCINFRA	Remote repository and Target WAN accelerator
VEEAM-VBR2	VEEAM-DCINFRA	Second deployment of Veeam Backup & Replication

DNS Alias	VM	Role
VEEAM-TAPEPROXY	VEEAM-DCINFRA	Dedicated tape server to which the tape device is connected

## VEEAM-VBR

VM name	Description
OS	Windows Server 2012
IP Addresses	EXTERN MGMT 10.0.1.2 iSCSI 10.0.2.2 LAN 10.0.3.2  DNS 10.0.1.1 GW
Member of Active Directory Domain	veeaminfra.local
Login	Direct Username: VEEAMINFRA\Administrator Password: Pa\$\$w0rd Local Password for Emergency: Pa\$\$w0rd (Please do NOT use local Administrator account for the lab access or lab modules)

## VEEAM-VTL

VM name	Description
OS	Linux
IP Addresses	MGMT 10.0.1.3 LAN 10.0.1.1 DNS 10.0.1.1
Member of Active Directory Domain	veeaminfra.local

VM name	Description
Login	SSH with Putty located at C:\Install from VEEAM-VBR Username: root Password: P@ssw0rd MHVTL Software Login per Internet Explorer from VEEAM-VBR http://veeam-vtl/mhvtl Username: mhvtl Password: P@ssw0rd

## VEEAM-DCInfra

VM name	Description
OS	Windows Server 2012
IP Addresses	MGMT 10.0.1.1 DNS 10.0.1.1 GW 10.0.1.3
Member of Active Directory Domain	veeaminfra.local
Login	Use RDP from VEEAM-VBR → VEEAM-DCInfra Username: VEEAMINFRA\Administrator Password: Pa\$\$w0rd  Active Directory Restore Password for Emergency: Pa\$\$w0rd

## VEEAM-VSA

VM name	Description
OS	HPE Appliance
IP Addresses	iSCSI 10.0.2.4 (NIC) iSCSI 10.0.2.40 (NIC) iSCSI 10.0.2.240 (Cluster) DNS - GW -
Member of Active Directory Domain	—

VM name	Description
Login	<p>HPE StoreVirtual Centralized Management Console installed on VEEAM-VBR</p> <p>Double Click on Veeam-VSA-MGMTG</p> <p>Username: veeam</p> <p>Password: veeam</p> <p>Note: User name and password are key sensitive.</p>

## VEEAM-ESX

VM name	Description
OS	VMware ESXi 5.1
IP Addresses	<p>MGMT 10.0.1.5 (VMKernel Management)</p> <p>iSCSI 10.0.2.5 (VMKernel iSCSI only)</p> <p>DNS 10.0.1.1 GW 10.0.1.3</p>
Member of Active Directory Domain	DNS suffix veeaminfra.local
Login	<p>vSphere Client installed on VEEAM-VBR</p> <p>Username: root</p> <p>Password: Pa\$\$w0rd</p>

## VEEAM-DC01

VM name	Description
OS	Windows Server 2012
IP Addresses	<p>LAN 10.0.3.11</p> <p>DNS 10.0.3.11 GW 10.0.3.3</p>
Member of Active Directory Domain	veeamlab.local
Login	<p>Use RDP from VEEAM-VBR → VEEAM-DC01</p> <p>Username: VEEAMLAB\Administrator</p> <p>Password: Pa\$\$w0rd</p> <p>Local administrator password for emergency: Pa\$\$w0rd</p>

## VEEAM-EX01

VM name	Description
OS	Windows Server 2012
IP Addresses	LAN 10.0.3.12 DNS 10.0.3.11 GW 10.0.3.3
Member of Active Directory Domain	veeamlab.local
Login	<p>Use RDP from VEEAM-VBR → VEEAM-EX01 Username: VEEAMLAB\Administrator Password: Pa\$\$w0rd</p> <p>Local administrator password for emergency: Pa\$\$w0rd</p> <p>Test user for Exchange Restore Username: Veeamlab\testmail Password: Pa\$\$w0rd</p> <p>OWA Address from VEEAM-VBR: <a href="https://veeam-ex01.veeamlab.local/owa">https://veeam-ex01.veeamlab.local/owa</a> Allowed Users VEEAMLAB\Administrator and VEEAMLAB\testmail</p>

## VEEAM-SP01

VM name	Description
OS	Windows Server 2012
IP Addresses	LAN 10.0.3.13 DNS 10.0.3.11 GW 10.0.3.3
Member of Active Directory Domain	veeamlab.local
Login	<p>Use RDP from VEEAM-VBR → VEEAM-SP01 Username: VEEAMLAB\Administrator Password: Pa\$\$w0rd</p> <p>Local administrator password for emergency: Pa\$\$w0rd</p> <p>SharePoint address from VEEAM-VBR: <a href="http://veeam-sp01.veeamlab.local">http://veeam-sp01.veeamlab.local</a> Allowed User: VEEAMLAB\Administrator</p>

## VEEAM-ORCL

VM name		Description
OS	Linux (CentOS)	
IP Addresses	LAN 10.0.3.14 DNS 10.0.3.11 GW 10.0.3.3	
Member of Active Directory Domain	- (DNS Suffix: veeamlab.local)	
Login	SSH with Putty from VEEAM-VBR You can find Putty at c:\Install Username: root Password: Pa\$\$w0rd  ORACLE DB User: Username: scott Password: tiger	