



Build VMware Template

CIS 5690

Introduction

A VMware template includes the virtual machine's virtual disks and settings from its .vmx configuration file. Templates save time and avoid errors when configuring settings and other choices to create new VMs.

Why Use Virtual Machine Templates?

The first and simplest reason for using virtual machine templates is efficiency. With templates, many repetitive installation and configuration tasks can be avoided. The result is a fully installed, ready to operate (virtual) server in less time than manual installation

Creating Templates

The process of creating a virtual machine template begins with a source virtual machine. Ideally, the source of a template should be a new install, built specifically for use as a template. Once the source virtual machine is ready to become a template, there are two options for creating the template in VMware Vcenter.

[Clone to Template](#) . The source virtual machine remains intact, and a new template is created by copying the virtual disks and creating a new configuration file

[Convert to Template](#) – The virtual machine is converted directly to a template. The operation is completed very quickly, as no files are copied.

NOTE :

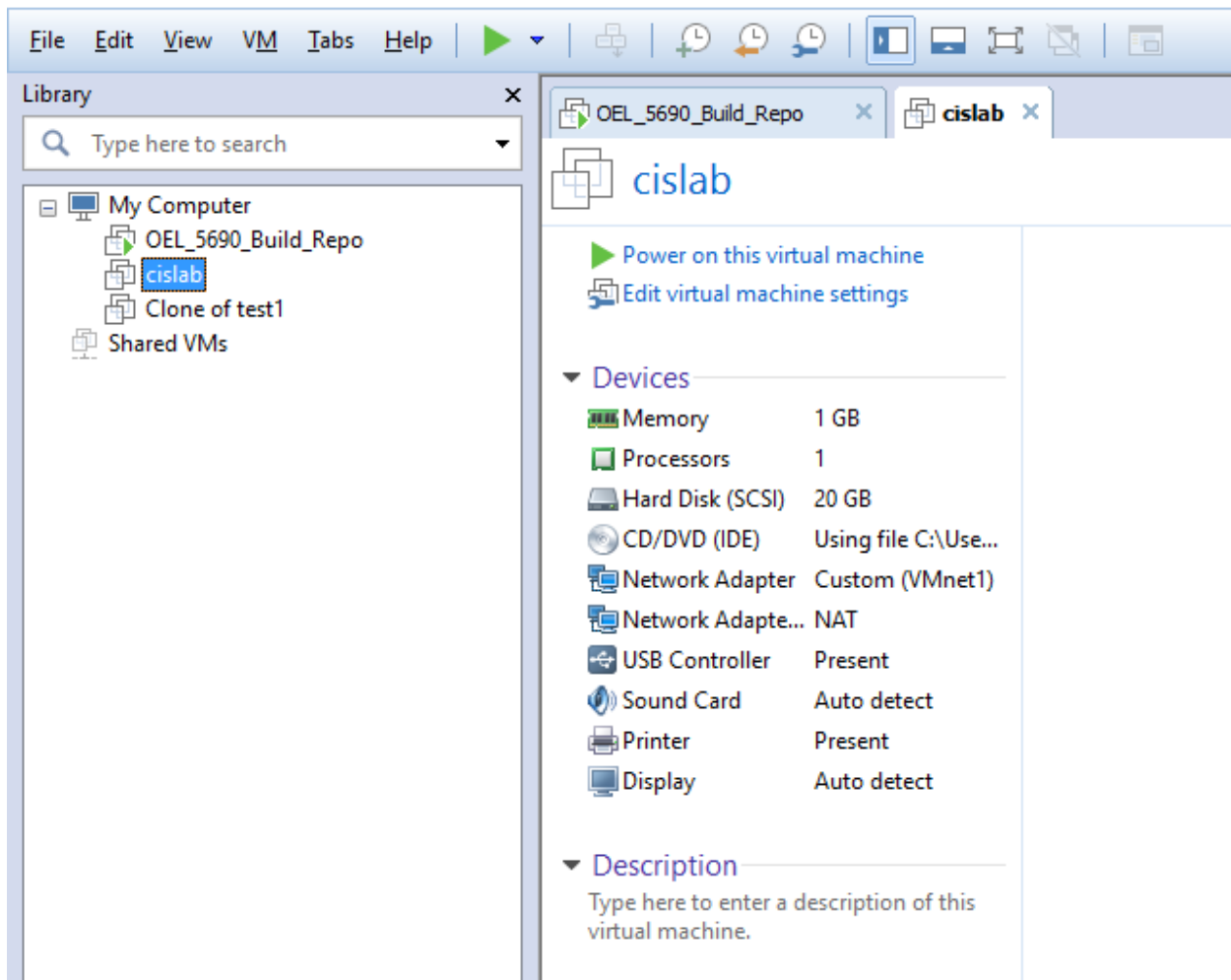
We are using VMware Work Station due to Infrastructure limitations. The process followed from here is using VMware work station 12. The Actual Template creation in VCenter will be different

Install the machine using UCM AUTOBUILD procedure.

We have already installed cislab previously.

(or)

If a more generic image is needed, Please install a new VM.



prepare the Linux VM for use as a template

Un-configure - Networking

- Set hostname to template using the command : hostnamectl (or) nmtui
#hostnamectl set-hostname OEL72TMP

- Remove unique network details from ifcfg scripts.
/etc/sysconfig/network-scripts/ifcfg-*
/etc/sysconfig/network
/etc/hosts

MAC addresses and Static network configuration lines should be removed

- Remove any persistent udev-rules
rm -f /etc/udev/rules.d/70-persistent-net.rules

Un-configure - Registration Details

- Remove any Redhat satellite registrations

```
# rm /etc/sysconfig/rhn/systemid
```

Un-configure - Remaining unique details

- Remove any sshd public/private key pairs

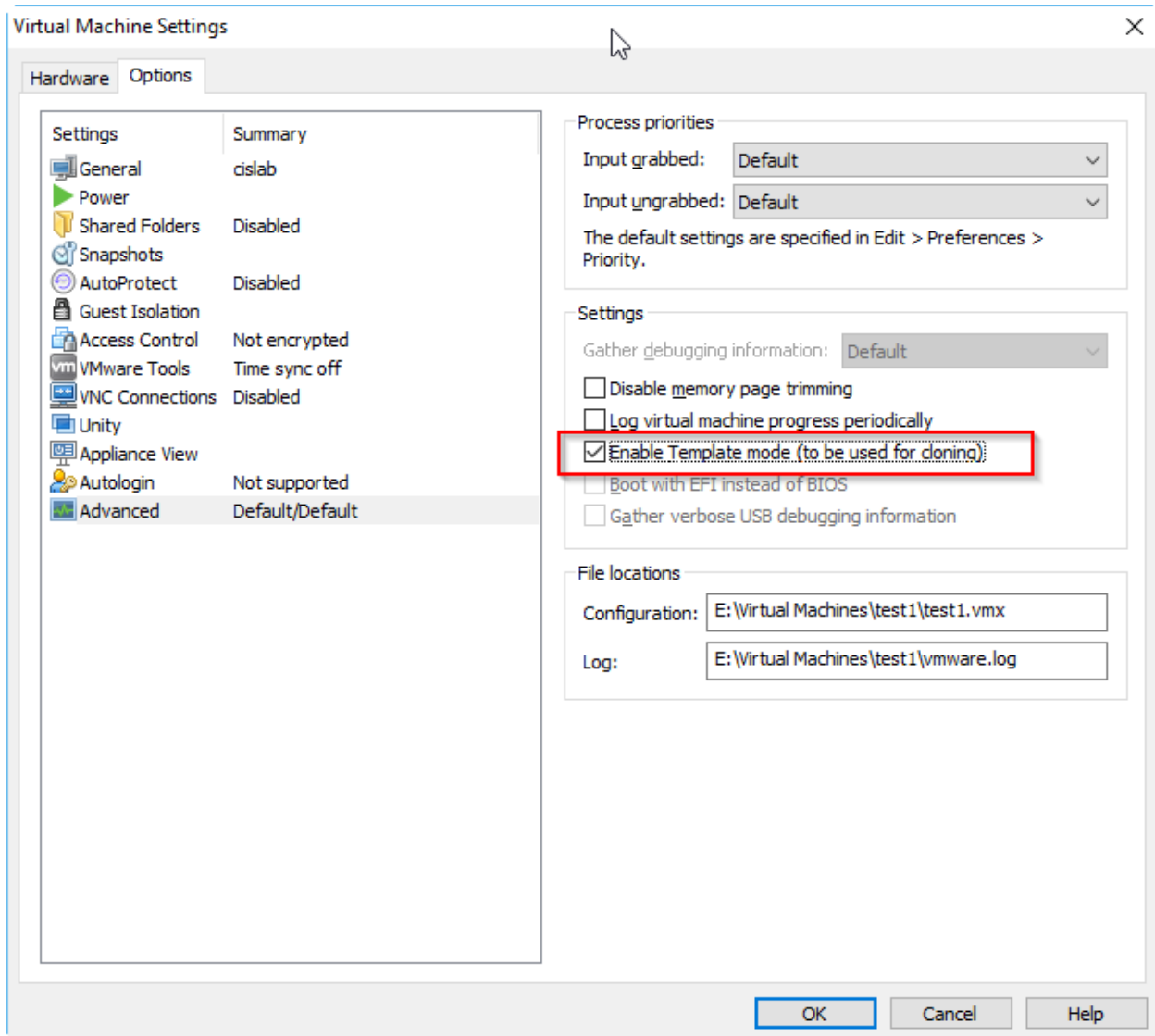
```
# rm -rf /etc/ssh/ssh_host_*
```

- Un-configure any other applications

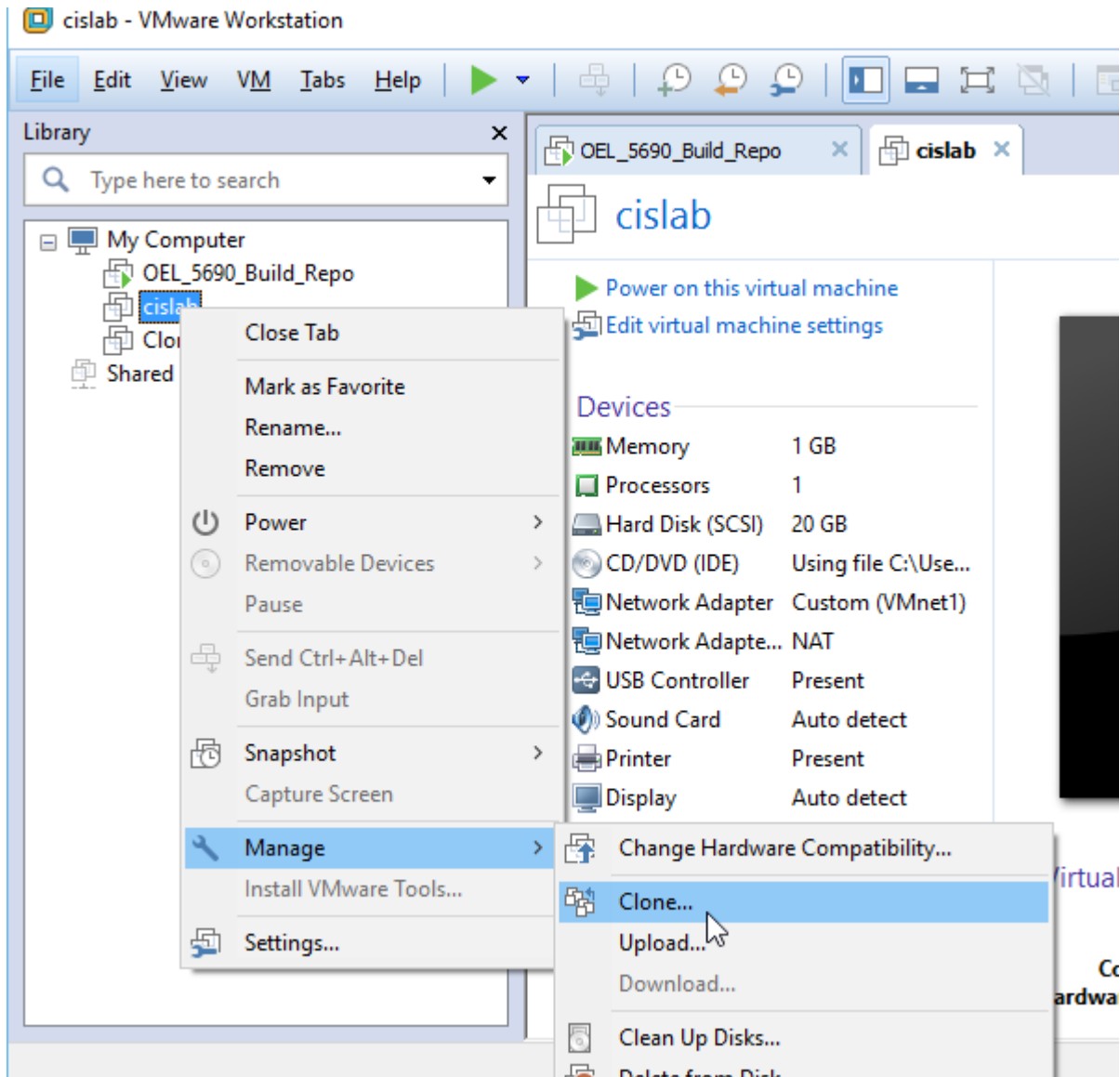
Remove any application specific identifiers/configuration that may cause conflicts if running on multiple machines

Create Template in VMware Work Station

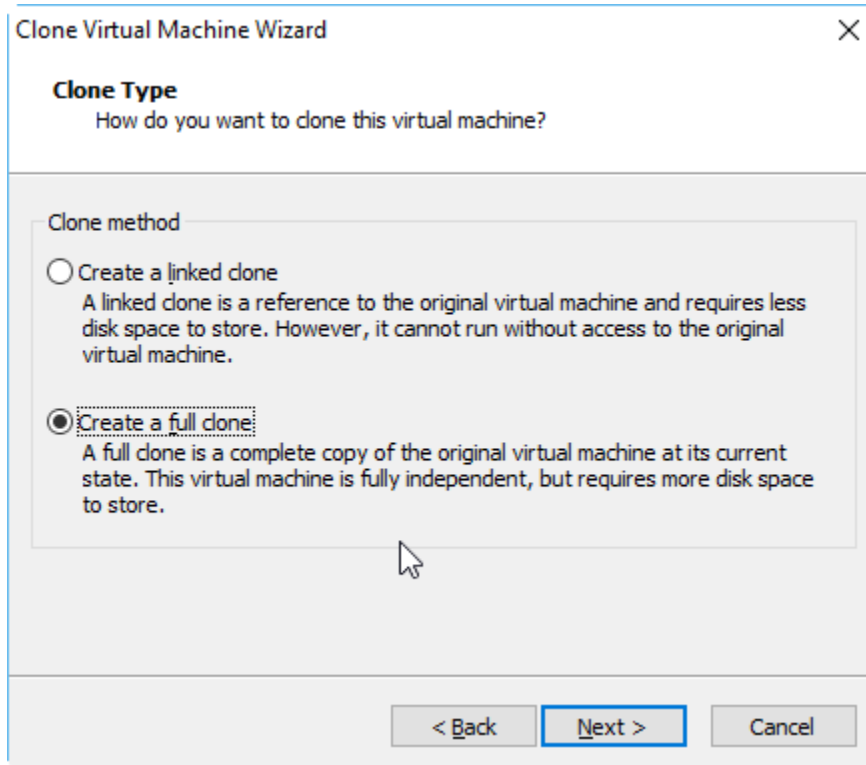
- Right click on the “cislalab” VM (power off the VM)
- Click on Setting -> and Click on Options tab.
- Following window will be displayed. Select Advanced column and select “Enable Template Mode” check box.



- Right click on the VM and select -> Manage -> Clone



- Create a Full clone



- Give the new VM name

Clone Virtual Machine Wizard

Name of the New Virtual Machine
What name would you like to use for this virtual machine?

Virtual machine name
Server1

Location
E:\Virtual Machines\Server1 Browse...

< Back Finish Cancel

- Click finish to create a New Virtual machine

DOCUMENT SIGNOFF

Nature of Signoff	Person	Signature	Date
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