

Creation of a template

1. Create virtual machine in [vmm request page](#). Fill the fields as explained here and choose the OS 'Linux / PXE'. This will create a empty machine where you can install a fresh OS from the network;
2. In VMM, go to the properties of the machine and change its disk configuration, following the partitions indicated in the table in end of this page.
3. Turn the machine on, check the console. You should be able to start the installation through the network;
4. Do a minimal install. Make sure basic stuff such as yum, sshd, etc. gets installed and remove the rest;
5. Install and configure AFS if necessary; This might require to install ntp and configure it.
6. Install SCSI drivers and configure the disks, moving all partitions to scsi except the root (see the table in the end of this page).
7. Scripts that run everytime the machine created from the template will be created are in `/afs/cern.ch/project/gd/www/cvi/vmcfg/[platform]/`. Read the [README file](#) inside each platform's directory for more details. At this time, if necessary, create or modify the script corresponding to the template you are creating;
8. Install vmconfig-service in the template as `/etc/init.d/vmconfig`, and activate it in default runlevels (you can use `chkconfig` for that);
9. Stop the machine;
10. Go to <http://network.cern.ch>, find the machine you created by its name, and change its declared OS. This will be the tag of the machine and can be changed later in the Virtual Machine Manager app, under 'Library', by clicking in the properties of the template. This tag will then appear in the OS choice, when creating a new virtual machine, so it is therefore important.
11. Create a template from its current state. Go to <https://vmm.cern.ch/vmmgtsvc/service.aspx> and choose 'TemplateCreateRequestOnServer'. Here is a guide about filling the fields:

Field	Comments
VMMName	Name of the virtual machine you just created
Template Name	depends on the template. For example, sl5-32-base
Description	Make one based on an existing one (check the properties of an existing machine)
Template Path	Generic
Owner	it-get-admin
Host Groups	IT-GT
Library Server	it-gt-cvi-srv

The library server and template path will determine the location of the image (.vhd file). For example, `it-gt-cvi-srv\VMMLibrary\templates\generic[template name]`. It can also be accessed through the Virtual Machine manager app.

Mount point	Size (GB)	Disk
/var	5	IDE 0
/usr	15	IDE 0
/	5	IDE 1
/tmp	5	IDE 2
/home	30	IDE 2
(swap)	4	IDE 3
	4	SCSI 0
	20	SCSI 1
	40	SCSI 2

IDE 2 should be a LVG with two LV distributed as indicated in the table and 5GB of non used space for future use.