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LCF610 - Installation de Machines Virtuelles

Contenu du Module

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LAB #1 - Installation d'une Machine Virtuelle CentOS 8

1.1 - Identification du Short ID

KVM sait virtualiser un grand nombre de systèmes d'exploitations. Pour consulter la liste complète des systèmes, il convient d'utiliser la commande **osinfo-query os** :

```
[root@centos8 ~]# osinfo-query os | more
Short ID          | Name                                     | Version | ID
-----+-----+-----+-----
-----
alpinelinux3.10   | Alpine Linux 3.10                       | 3.10    |
http://alpinelinux.org/alpinelinux/3.10
alpinelinux3.11   | Alpine Linux 3.11                       | 3.11    |
http://alpinelinux.org/alpinelinux/3.11
alpinelinux3.12   | Alpine Linux 3.12                       | 3.12    |
http://alpinelinux.org/alpinelinux/3.12
alpinelinux3.13   | Alpine Linux 3.13                       | 3.13    |
http://alpinelinux.org/alpinelinux/3.13
alpinelinux3.5    | Alpine Linux 3.5                        | 3.5     |
http://alpinelinux.org/alpinelinux/3.5
alpinelinux3.6    | Alpine Linux 3.6                        | 3.6     |
http://alpinelinux.org/alpinelinux/3.6
alpinelinux3.7    | Alpine Linux 3.7                        | 3.7     |
http://alpinelinux.org/alpinelinux/3.7
alpinelinux3.8    | Alpine Linux 3.8                        | 3.8     |
http://alpinelinux.org/alpinelinux/3.8
alpinelinux3.9    | Alpine Linux 3.9                        | 3.9     |
http://alpinelinux.org/alpinelinux/3.9
alt.p8            | ALT p8 StarterKits                       | p8      |
http://altlinux.org/alt/p8.starterkits
alt.p9            | ALT p9 StarterKits                       | p9      |
```

http://altlinux.org/alt/p9.starterkits	alt.sisyphus	ALT regular	sisyphus	
http://altlinux.org/alt/sisyphus	alt8.0	ALT 8 Education	8.0	
http://altlinux.org/alt/8.0	alt8.1	ALT 8.1	8.1	
http://altlinux.org/alt/8.1	alt8.2	ALT 8.2	8.2	
http://altlinux.org/alt/8.2	alt9.0	ALT 9.0	9.0	
http://altlinux.org/alt/9.0	alt9.1	ALT 9.1	9.1	
http://altlinux.org/alt/9.1	altlinux1.0	Mandrake RE Spring 2001	1.0	
http://altlinux.org/altlinux/1.0	altlinux2.0	ALT Linux 2.0	2.0	
http://altlinux.org/altlinux/2.0	altlinux2.2	ALT Linux 2.2	2.2	
http://altlinux.org/altlinux/2.2	altlinux2.4	ALT Linux 2.4	2.4	
http://altlinux.org/altlinux/2.4	altlinux3.0	ALT Linux 3.0	3.0	
http://altlinux.org/altlinux/3.0	altlinux4.0	ALT Linux 4.0	4.0	
http://altlinux.org/altlinux/4.0	altlinux4.1	ALT Linux 4.1	4.1	
http://altlinux.org/altlinux/4.1	altlinux5.0	ALT Linux 5.0	5.0	
http://altlinux.org/altlinux/5.0	altlinux6.0	ALT Linux 6.0	6.0	
http://altlinux.org/altlinux/6.0	altlinux7.0	ALT Linux 7.0	7.0	
http://altlinux.org/altlinux/7.0	android-x86-8.1	Android-x86 8.1	8.1	

```

http://android-x86.org/android-x86/8.1
  android-x86-9.0      | Android-x86 9.0                | 9.0      |
http://android-x86.org/android-x86/9.0
  archlinux           | Arch Linux                      |          |
http://archlinux.org/archlinux/rolling
  asianux-unknown     | Asianux unknown                 | unknown  |
http://asianux.com/asianux/unknown
  asianux4.6          | Asianux Server 4 SP6           |          |
http://asianux.com/asianux/4.6
  asianux4.7          | Asianux Server 4 SP7           |          |
http://asianux.com/asianux/4.7
  asianux7.0          | Asianux Server 7               | 7.0      |
http://asianux.com/asianux/7.0
  asianux7.1          | Asianux Server 7 SP1           | 7.1      |
http://asianux.com/asianux/7.1
  asianux7.2          | Asianux Server 7 SP2           | 7.2      |
http://asianux.com/asianux/7.2
  asianux7.3          | Asianux Server 7 SP3           | 7.3      |
http://asianux.com/asianux/7.3
  asianux8.0          | Asianux Server 8               | 8.0      |
http://asianux.com/asianux/8.0
  caasp-unknown       | SUSE CaaS Platform Unknown     | unknown  |
http://suse.com/caasp/unknown
  caasp1.0            | SUSE CaaS Platform 1.0         | 1.0      | http://suse.com/caasp/1.0
  caasp2.0            | SUSE CaaS Platform 2.0         | 2.0      | http://suse.com/caasp/2.0
  caasp3.0            | SUSE CaaS Platform 3.0         | 3.0      | http://suse.com/caasp/3.0
--More--

```

La liste des versions de Red Hat peut être consultée en recherchant la chaîne **Red Hat** dans la sortie de la commande précédente :

```

[root@centos8 ~]# osinfo-query os | grep "Red Hat"
  rhel-atomic-7.0     | Red Hat Enterprise Linux Atomic Host 7.0 | 7.0      |
http://redhat.com/rhel-atomic/7.0
  rhel-atomic-7.1     | Red Hat Enterprise Linux Atomic Host 7.1 | 7.1      |

```

http://redhat.com/rhel-atomic/7.1			
rhel-atomic-7.2	Red Hat Enterprise Linux Atomic Host 7.2	7.2	
http://redhat.com/rhel-atomic/7.2			
rhel-atomic-7.3	Red Hat Enterprise Linux Atomic Host 7.3	7.3	
http://redhat.com/rhel-atomic/7.3			
rhel-atomic-7.4	Red Hat Enterprise Linux Atomic Host 7.4	7.4	
http://redhat.com/rhel-atomic/7.4			
rhel-unknown	Red Hat Enterprise Linux Unknown	unknown	
http://redhat.com/rhel/unknown			
rhel2.1	Red Hat Enterprise Linux 2.1	2.1	
http://redhat.com/rhel/2.1			
rhel2.1.1	Red Hat Enterprise Linux 2.1 Update 1	2.1.1	
http://redhat.com/rhel/2.1.1			
rhel2.1.2	Red Hat Enterprise Linux 2.1 Update 2	2.1.2	
http://redhat.com/rhel/2.1.2			
rhel2.1.3	Red Hat Enterprise Linux 2.1 Update 3	2.1.3	
http://redhat.com/rhel/2.1.3			
rhel2.1.4	Red Hat Enterprise Linux 2.1 Update 4	2.1.4	
http://redhat.com/rhel/2.1.4			
rhel2.1.5	Red Hat Enterprise Linux 2.1 Update 5	2.1.5	
http://redhat.com/rhel/2.1.5			
rhel2.1.6	Red Hat Enterprise Linux 2.1 Update 6	2.1.6	
http://redhat.com/rhel/2.1.6			
rhel2.1.7	Red Hat Enterprise Linux 2.1 Update 7	2.1.7	
http://redhat.com/rhel/2.1.7			
rhel3	Red Hat Enterprise Linux 3	3	http://redhat.com/rhel/3
rhel3.1	Red Hat Enterprise Linux 3 Update 1	3.1	
http://redhat.com/rhel/3.1			
rhel3.2	Red Hat Enterprise Linux 3 Update 2	3.2	
http://redhat.com/rhel/3.2			
rhel3.3	Red Hat Enterprise Linux 3 Update 3	3.3	
http://redhat.com/rhel/3.3			
rhel3.4	Red Hat Enterprise Linux 3 Update 4	3.4	
http://redhat.com/rhel/3.4			

rhel3.5	Red Hat Enterprise Linux 3 Update 5	3.5	
http://redhat.com/rhel/3.5			
rhel3.6	Red Hat Enterprise Linux 3 Update 6	3.6	
http://redhat.com/rhel/3.6			
rhel3.7	Red Hat Enterprise Linux 3 Update 7	3.7	
http://redhat.com/rhel/3.7			
rhel3.8	Red Hat Enterprise Linux 3 Update 8	3.8	
http://redhat.com/rhel/3.8			
rhel3.9	Red Hat Enterprise Linux 3 Update 9	3.9	
http://redhat.com/rhel/3.9			
rhel4.0	Red Hat Enterprise Linux 4.0	4.0	
http://redhat.com/rhel/4.0			
rhel4.1	Red Hat Enterprise Linux 4.1	4.1	
http://redhat.com/rhel/4.1			
rhel4.2	Red Hat Enterprise Linux 4.2	4.2	
http://redhat.com/rhel/4.2			
rhel4.3	Red Hat Enterprise Linux 4.3	4.3	
http://redhat.com/rhel/4.3			
rhel4.4	Red Hat Enterprise Linux 4.4	4.4	
http://redhat.com/rhel/4.4			
rhel4.5	Red Hat Enterprise Linux 4.5	4.5	
http://redhat.com/rhel/4.5			
rhel4.6	Red Hat Enterprise Linux 4.6	4.6	
http://redhat.com/rhel/4.6			
rhel4.7	Red Hat Enterprise Linux 4.7	4.7	
http://redhat.com/rhel/4.7			
rhel4.8	Red Hat Enterprise Linux 4.8	4.8	
http://redhat.com/rhel/4.8			
rhel4.9	Red Hat Enterprise Linux 4.9	4.9	
http://redhat.com/rhel/4.9			
rhel5.0	Red Hat Enterprise Linux 5.0	5.0	
http://redhat.com/rhel/5.0			
rhel5.1	Red Hat Enterprise Linux 5.1	5.1	
http://redhat.com/rhel/5.1			

rhel5.10	Red Hat Enterprise Linux 5.10	5.10	
http://redhat.com/rhel/5.10			
rhel5.11	Red Hat Enterprise Linux 5.11	5.11	
http://redhat.com/rhel/5.11			
rhel5.2	Red Hat Enterprise Linux 5.2	5.2	
http://redhat.com/rhel/5.2			
rhel5.3	Red Hat Enterprise Linux 5.3	5.3	
http://redhat.com/rhel/5.3			
rhel5.4	Red Hat Enterprise Linux 5.4	5.4	
http://redhat.com/rhel/5.4			
rhel5.5	Red Hat Enterprise Linux 5.5	5.5	
http://redhat.com/rhel/5.5			
rhel5.6	Red Hat Enterprise Linux 5.6	5.6	
http://redhat.com/rhel/5.6			
rhel5.7	Red Hat Enterprise Linux 5.7	5.7	
http://redhat.com/rhel/5.7			
rhel5.8	Red Hat Enterprise Linux 5.8	5.8	
http://redhat.com/rhel/5.8			
rhel5.9	Red Hat Enterprise Linux 5.9	5.9	
http://redhat.com/rhel/5.9			
rhel6-unknown	Red Hat Enterprise Linux 6 Unknown	6-unknown	
http://redhat.com/rhel/6-unknown			
rhel6.0	Red Hat Enterprise Linux 6.0	6.0	
http://redhat.com/rhel/6.0			
rhel6.1	Red Hat Enterprise Linux 6.1	6.1	
http://redhat.com/rhel/6.1			
rhel6.10	Red Hat Enterprise Linux 6.10	6.10	
http://redhat.com/rhel/6.10			
rhel6.2	Red Hat Enterprise Linux 6.2	6.2	
http://redhat.com/rhel/6.2			
rhel6.3	Red Hat Enterprise Linux 6.3	6.3	
http://redhat.com/rhel/6.3			
rhel6.4	Red Hat Enterprise Linux 6.4	6.4	
http://redhat.com/rhel/6.4			

rhel6.5	Red Hat Enterprise Linux 6.5	6.5	
http://redhat.com/rhel/6.5			
rhel6.6	Red Hat Enterprise Linux 6.6	6.6	
http://redhat.com/rhel/6.6			
rhel6.7	Red Hat Enterprise Linux 6.7	6.7	
http://redhat.com/rhel/6.7			
rhel6.8	Red Hat Enterprise Linux 6.8	6.8	
http://redhat.com/rhel/6.8			
rhel6.9	Red Hat Enterprise Linux 6.9	6.9	
http://redhat.com/rhel/6.9			
rhel7-unknown	Red Hat Enterprise Linux 7 Unknown	7-unknown	
http://redhat.com/rhel/7-unknown			
rhel7.0	Red Hat Enterprise Linux 7.0	7.0	
http://redhat.com/rhel/7.0			
rhel7.1	Red Hat Enterprise Linux 7.1	7.1	
http://redhat.com/rhel/7.1			
rhel7.2	Red Hat Enterprise Linux 7.2	7.2	
http://redhat.com/rhel/7.2			
rhel7.3	Red Hat Enterprise Linux 7.3	7.3	
http://redhat.com/rhel/7.3			
rhel7.4	Red Hat Enterprise Linux 7.4	7.4	
http://redhat.com/rhel/7.4			
rhel7.5	Red Hat Enterprise Linux 7.5	7.5	
http://redhat.com/rhel/7.5			
rhel7.6	Red Hat Enterprise Linux 7.6	7.6	
http://redhat.com/rhel/7.6			
rhel7.7	Red Hat Enterprise Linux 7.7	7.7	
http://redhat.com/rhel/7.7			
rhel7.8	Red Hat Enterprise Linux 7.8	7.8	
http://redhat.com/rhel/7.8			
rhel7.9	Red Hat Enterprise Linux 7.9	7.9	
http://redhat.com/rhel/7.9			
rhel8-unknown	Red Hat Enterprise Linux 8 Unknown	8-unknown	
http://redhat.com/rhel/8-unknown			

rhel8.0	Red Hat Enterprise Linux 8.0	8.0	
http://redhat.com/rhel/8.0			
rhel8.1	Red Hat Enterprise Linux 8.1	8.1	
http://redhat.com/rhel/8.1			
rhel8.2	Red Hat Enterprise Linux 8.2	8.2	
http://redhat.com/rhel/8.2			
rhel8.3	Red Hat Enterprise Linux 8.3	8.3	
http://redhat.com/rhel/8.3			
rhel8.4	Red Hat Enterprise Linux 8.4	8.4	
http://redhat.com/rhel/8.4			
rhel9-unknown	Red Hat Enterprise Linux 9 Unknown	9-unknown	
http://redhat.com/rhel/9-unknown			
rhel9.0	Red Hat Enterprise Linux 9.0	9.0	
http://redhat.com/rhel/9.0			
rhl1.0	Red Hat Linux 1.0	1.0	http://redhat.com/rhl/1.0
rhl1.1	Red Hat Linux 1.1	1.1	http://redhat.com/rhl/1.1
rhl2.0	Red Hat Linux 2.0	2.0	http://redhat.com/rhl/2.0
rhl2.1	Red Hat Linux 2.1	2.1	http://redhat.com/rhl/2.1
rhl3.0.3	Red Hat Linux 3.0.3	3.0.3	
http://redhat.com/rhl/3.0.3			
rhl4.0	Red Hat Linux 4.0	4.0	http://redhat.com/rhl/4.0
rhl4.1	Red Hat Linux 4.1	4.1	http://redhat.com/rhl/4.1
rhl4.2	Red Hat Linux 4.2	4.2	http://redhat.com/rhl/4.2
rhl5.0	Red Hat Linux 5.0	5.0	http://redhat.com/rhl/5.0
rhl5.1	Red Hat Linux 5.1	5.1	http://redhat.com/rhl/5.1
rhl5.2	Red Hat Linux 5.2	5.2	http://redhat.com/rhl/5.2
rhl6.0	Red Hat Linux 6.0	6.0	http://redhat.com/rhl/6.0
rhl6.1	Red Hat Linux 6.1	6.1	http://redhat.com/rhl/6.1
rhl6.2	Red Hat Linux 6.2	6.2	http://redhat.com/rhl/6.2
rhl7	Red Hat Linux 7	7	http://redhat.com/rhl/7
rhl7.1	Red Hat Linux 7.1	7.1	http://redhat.com/rhl/7.1
rhl7.2	Red Hat Linux 7.2	7.2	http://redhat.com/rhl/7.2
rhl7.3	Red Hat Linux 7.3	7.3	http://redhat.com/rhl/7.3
rhl8.0	Red Hat Linux 8.0	8.0	http://redhat.com/rhl/8.0

rh19	Red Hat Linux 9	9	http://redhat.com/rhl/9
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Afin d'installer une machine virtuelle nous avons besoin d'identifier le **Short ID** de la version à installer. Cette information se trouve dans la première colonne de la sortie de la commande. Les trois autres colonnes indiquent :

- Colonne 2,
 - **Name**,
 - Le nom officiel du système d'exploitation,
- Colonne 3,
 - **Version**,
 - La version du système d'exploitation,
- Colonne 4,
 - **ID**,
 - Un URL censé pointer vers la page officielle de la version de la distribution. Attention : ces URLs sont bien souvent inexactes,

Pour rechercher le Short ID de CentOS 8, recherchez **centos** dans la sortie de la commande **osinfo-query os** :

```
[root@centos8 ~]# osinfo-query os | grep centos
centos-stream8      | CentOS Stream 8           | 8       |
http://centos.org/centos-stream/8
centos5.0           | CentOS 5.0                 | 5.0     |
http://centos.org/centos/5.0
centos5.1           | CentOS 5.1                 | 5.1     |
http://centos.org/centos/5.1
centos5.10          | CentOS 5.10               | 5.10    |
http://centos.org/centos/5.10
centos5.11          | CentOS 5.11               | 5.11    |
http://centos.org/centos/5.11
centos5.2           | CentOS 5.2                 | 5.2     |
http://centos.org/centos/5.2
centos5.3           | CentOS 5.3                 | 5.3     |
http://centos.org/centos/5.3
centos5.4           | CentOS 5.4                 | 5.4     |
http://centos.org/centos/5.4
```

centos5.5	CentOS 5.5	5.5	
http://centos.org/centos/5.5			
centos5.6	CentOS 5.6	5.6	
http://centos.org/centos/5.6			
centos5.7	CentOS 5.7	5.7	
http://centos.org/centos/5.7			
centos5.8	CentOS 5.8	5.8	
http://centos.org/centos/5.8			
centos5.9	CentOS 5.9	5.9	
http://centos.org/centos/5.9			
centos6.0	CentOS 6.0	6.0	
http://centos.org/centos/6.0			
centos6.1	CentOS 6.1	6.1	
http://centos.org/centos/6.1			
centos6.10	CentOS 6.10	6.10	
http://centos.org/centos/6.10			
centos6.2	CentOS 6.2	6.2	
http://centos.org/centos/6.2			
centos6.3	CentOS 6.3	6.3	
http://centos.org/centos/6.3			
centos6.4	CentOS 6.4	6.4	
http://centos.org/centos/6.4			
centos6.5	CentOS 6.5	6.5	
http://centos.org/centos/6.5			
centos6.6	CentOS 6.6	6.6	
http://centos.org/centos/6.6			
centos6.7	CentOS 6.7	6.7	
http://centos.org/centos/6.7			
centos6.8	CentOS 6.8	6.8	
http://centos.org/centos/6.8			
centos6.9	CentOS 6.9	6.9	
http://centos.org/centos/6.9			
centos7.0	CentOS 7	7	
http://centos.org/centos/7.0			

centos8 | CentOS 8
<http://centos.org/centos/8>



Important : Notez que le Short ID de CentOS 8 est actuellement **centos8** quelque soit la version.

1.2 - Configuration du Stockage des ISOs

Afin d'installer la machine virtuelle il est nécessaire d'avoir accès à l'ISO de celui-ci. Pour des raisons de performances il est souhaitable que cet ISO soit stocké localement ou bien sur un système de fichiers distant sans latence. Un ISO de CentOS 8 a été préchargé dans le répertoire **/root** de votre VM. Cet ISO doit être placé dans un endroit accessible par l'utilisateur et le groupe **qemu**. Créez donc le répertoire **/isos**, placez l'ISO dans ce répertoire et accordez les permissions adéquates :

```
[root@centos8 ~]# ls -l | grep CentOS
-rw-r--r--. 1 root root 625999872 Sep  3 04:44 CentOS-8.1.1911-x86_64-boot.iso

[root@centos8 ~]# chmod 755 CentOS-8.1.1911-x86_64-boot.iso

[root@centos8 ~]# mkdir /isos

[root@centos8 ~]# mv CentOS-8.1.1911-x86_64-boot.iso /isos

[root@centos8 ~]# chown -R qemu:qemu /isos
```

1.3 - Installation du Domain

Démarrez maintenant l'installation d'une machine virtuelle **CentOS 8** grâce à la commande **virt-install** :

```
[root@centos8 ~]# virt-install --network bridge:virbr0 --name testvm1 --os-variant=centos8 --ram=2048 --vcpus=1 -
```

```
-disk path=/var/lib/libvirt/images/testvm1-os.qcow2,bus=virtio,size=5 --graphics none --
location=/isos/CentOS-8.1.1911-x86_64-boot.iso --extra-args="console=tty0 console=ttyS0,115200" --check all=off

Starting install...
Retrieving file vmlinuz...
| 7.7 MB 00:00:00
Retrieving file initrd.img...
| 59 MB 00:00:00
Allocating 'testvm1-os.qcow2'
| 5.0 GB 00:00:00
WARNING Overriding memory to 3072 MiB needed for centos8 network install.
Connected to domain testvm1
Escape character is ^]
[ 0.000000] Linux version 4.18.0-147.el8.x86_64 (mockbuild@kbuilder.bsys.centos.org) (gcc version 8.3.1
20190507 (Red Hat 8.3.1-4) (GCC)) #1 SMP Wed Dec 4 21:51:45 UTC 2019
...
```



Important : Notez que la quantité de mémoire est automatiquement et provisoirement augmentée à 3072 Mo afin que l'installation se déroule correctement. Notez aussi l'utilisation du mot **domain**. Un domain sous KVM est un terme utilisé pour décrire une machine virtuelle.

Dans cette commande on peut constater l'utilisation de plusieurs options importantes :

Option	Commentaire
-network bridge=	Fixe la valeur du pont à utiliser par la VM à virbr0
-name	Indique le nom de la VM
-os-variant=	Egal à la valeur du Short ID identifié au-dessus
-ram=	Fixe la quantité de la RAM de la VM en Mo
-vcpus=	Fixe le nombre de vCPUs de la VM
-disk path=	Crée une image pour la VM, au format indiqué et de la taille indiquée en Go, à l'emplacement spécifié

Option	Commentaire
-graphics	La valeur none indique que l'installation aura lieu en mode texte. Notez que dans le cas d'une VM Windows™, la valeur doit être spice
-location=	Indique l'emplacement de l'ISO à utiliser pour l'installation
-extra-args=	Indique les options de la connectivité de la console

Format des Images

Une image est un disque virtuel. KVM reconnaît les formats d'image suivants :

```
[root@centos8 ~]# qemu-img -h | grep Supported
Supported formats: blkdebug blklogwrites blkreplay blkverify copy-on-read file ftp ftps gluster host_cdrom
host_device http https iscsi iser luks nbd null-aio null-co nvme qcow2 quorum raw rbd ssh throttle vhd vmdk vpc
```



Important : Consultez [cette page](#) pour plus d'informations.

Convertir le Format de l'Image

Il est possible de convertir un format d'image existante au format qcow2 avec la commande **qemu-img convert**, notamment les images au format **qed**, **raw**, **vdi**, **vhd** et **vmdk**. Par exemple :

```
# qemu-img convert -f vmdk -O qcow2 myimage.vmdk mynewimage.qcow2
```

Dans le cas d'une image au format **vdi** d'Oracle VirtualBox, il est préférable de créer une image au format **raw** en utilisant la commande **VBoxManage** :

```
# VBoxManage clonehd myimage.vdi myrawimage.img --format raw
```

Ensuite il convient d'utiliser la commande **qemu-img convert** pour convertir l'image au format raw en qcow2 :

```
# qemu-img convert -f raw -O qcow2 myrawimage.img mynewimage.qcow2
```

1.4 - Configuration de l'Installation de l'OS Invité

Language Settings

Commencez par appuyer sur le choix **1** :

```
...
Starting installer, one moment...
anaconda 29.19.1.13-1.el8 for CentOS Linux 8 started.
* installation log files are stored in /tmp during the installation
* shell is available on TTY2
* if the graphical installation interface fails to start, try again with the
  inst.text bootoption to start text installation
* when reporting a bug add logs from /tmp as separate text/plain attachments
14:08:33 Not asking for VNC because we don't have a network
=====
=====
Installation

1) [x] Language settings                2) [x] Time settings
   (English (United States))           (America/New_York timezone)
3) [!] Installation source              4) [!] Software selection
   (Processing...)                     (Processing...)
5) [!] Installation Destination         6) [x] Kdump
   (No disks selected)                 (Kdump is enabled)
7) [!] Network configuration           8) [!] Root password
   (Not connected)                     (Password is not set.)
9) [!] User creation
```

(No user will be created)

Please make a selection from the above ['b' to begin installation, 'q' to quit,
'r' to refresh]: 1

- ```
=====
=====
```
- |               |                      |                       |
|---------------|----------------------|-----------------------|
| 3) Arabic     | 29) Hebrew           | 55) Norwegian Nynorsk |
| 4) Assamese   | 30) Hindi            | 56) Northern Sotho    |
| 5) Asturian   | 31) Croatian         | 57) Odia              |
| 6) Belarusian | 32) Hungarian        | 58) Punjabi           |
| 7) Bulgarian  | 33) Interlingua      | 59) Polish            |
| 8) Bangla     | 34) Indonesian       | 60) Portuguese        |
| 9) Tibetan    | 35) Icelandic        | 61) Romanian          |
| 10) Bosnian   | 36) Italian          | 62) Russian           |
| 11) Catalan   | 37) Japanese         | 63) Sinhala           |
| 12) Czech     | 38) Georgian         | 64) Slovak            |
| 13) Welsh     | 39) Kazakh           | 65) Slovenian         |
| 14) Danish    | 40) Khmer            | 66) Albanian          |
| 15) German    | 41) Kannada          | 67) Serbian           |
| 16) Greek     | 42) Korean           | 68) Swedish           |
| 17) English   | 43) Lithuanian       | 69) Tamil             |
| 18) Spanish   | 44) Latvian          | 70) Telugu            |
| 19) Estonian  | 45) Maithili         | 71) Tajik             |
| 20) Basque    | 46) Macedonian       | 72) Thai              |
| 21) Persian   | 47) Malayalam        | 73) Turkish           |
| 22) Finnish   | 48) Marathi          | 74) Ukrainian         |
| 23) Filipino  | 49) Malay            | 75) Urdu              |
| 24) French    | 50) Burmese          | 76) Vietnamese        |
| 25) Friulian  | 51) Norwegian Bokmål | 77) Mandarin Chinese  |
| 26) Irish     | 52) Low German       | 78) Zulu              |
- Press ENTER to continue:

Choisissez l'option **24** puis l'option **1** :

```
Please select language support to install ['b' to return to language list, 'c'
to continue, 'q' to quit, 'r' to refresh]: 24
```

```
=====
=====
Language settings
```

```
Available locales
```

```
1) French (France) 3) French (Belgium) 5) French (Luxembourg)
2) French (Canada) 4) French (Switzerland)
```

```
Please select language support to install ['b' to return to language list, 'c'
to continue, 'q' to quit, 'r' to refresh]: 1
```

```
=====
=====
Installation
```

```
1) [x] Language settings 2) [x] Time settings
 (French (France)) (America/New_York timezone)
3) [!] Installation source 4) [!] Software selection
 (Error setting up software (Error checking software
 source) selection)
5) [!] Installation Destination 6) [x] Kdump
 (No disks selected) (Kdump is enabled)
7) [!] Network configuration 8) [!] Root password
 (Not connected) (Password is not set.)
9) [!] User creation
 (No user will be created)
```

```
Please make a selection from the above ['b' to begin installation, 'q' to quit,
'r' to refresh]:
```

```
[anaconda]1:main* 2:shell 3:log 4:storage-log >Switch tab: Alt+Tab | Help: F1
```

## Network configuration

Choisissez maintenant l'option **7** :

```
=====
=====
Installation

1) [x] Language settings 2) [x] Time settings
 (French (France)) (America/New_York timezone)
3) [!] Installation source 4) [!] Software selection
 (Error setting up software (Error checking software
 source) selection)
5) [!] Installation Destination 6) [x] Kdump
 (No disks selected) (Kdump is enabled)
7) [!] Network configuration 8) [!] Root password
 (Not connected) (Password is not set.)
9) [!] User creation
 (No user will be created)

Please make a selection from the above ['b' to begin installation, 'q' to quit,
'r' to refresh]: 7
=====
=====
Network configuration

Wired (enp1s0) disconnected

Host Name: localhost.localdomain

Current host name: localhost

1) Set host name
```

## 2) Configure device enp1s0

Choisissez ensuite l'option **1** pour définir le nom d'hôte de la VM :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: 1
=====
=====
Enter a new value for 'Host Name' and press ENTER: testvm1.ittraining.network
=====
=====
Network configuration

Wired (enp1s0) disconnected

Host Name: testvm1.ittraining.network

Current host name: localhost

1) Set host name
2) Configure device enp1s0
```

Choisissez l'option **2** pour configurer la connexion réseau :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: 2
=====
=====
Device configuration

1) IPv4 address or "dhcp" for DHCP
 dhcp
2) IPv4 netmask
3) IPv4 gateway
```

- 4) IPv6 address[/prefix] or "auto" for automatic, "dhcp" for DHCP, "ignore" to turn off  
auto
- 5) IPv6 default gateway
- 6) Nameservers (comma separated)
- 7) [ ] Connect automatically after reboot
- 8) [ ] Apply configuration in installer

Configuring device enpls0.

Laissez l'option **1** en **192.168.56.50**, l'option **2** en **255.255.255.0**, l'option **3** en **192.168.56.1** puis choisissez l'option **6** pour définir les serveurs DNS en **8.8.8.8,8.8.4.4** :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to refresh]: 6
```

```
=====
=====
Enter a new value for 'Nameservers (comma separated)' and press ENTER: 8.8.8.8,8.8.4.4
=====
=====
```

Device configuration

- 1) IPv4 address or "dhcp" for DHCP  
192.168.56.50
- 2) IPv4 netmask  
255.255.255.0
- 3) IPv4 gateway  
192.168.56.1
- 4) IPv6 address[/prefix] or "auto" for automatic, "dhcp" for DHCP, "ignore" to turn off  
auto
- 5) IPv6 default gateway
- 6) Nameservers (comma separated)

```
8.8.8.8,8.8.4.4
```

- 7) [ ] Connect automatically after reboot
- 8) [ ] Apply configuration in installer

```
Configuring device enp1s0.
```

Il est important de configurer la prise en compte automatique de la configuration après le re-démarrage. Choisissez donc l'option **7** :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: 7
```

```
=====
Device configuration
```

- 1) IPv4 address or "dhcp" for DHCP  
192.168.56.50
- 2) IPv4 netmask  
255.255.255.0
- 3) IPv4 gateway  
192.168.56.1
- 4) IPv6 address[/prefix] or "auto" for automatic, "dhcp" for DHCP, "ignore" to  
turn off  
auto
- 5) IPv6 default gateway
- 6) Nameservers (comma separated)  
8.8.8.8,8.8.4.4
- 7) [x] Connect automatically after reboot
- 8) [ ] Apply configuration in installer

```
Configuring device enp1s0.
```

Pour pouvoir installer les paquets logiciels, la configuration réseau doit être appliquée immédiatement. Choisissez donc l'option **8** :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
```

```
refresh]: 8
```

```
=====
=====
Device configuration
```

- 1) IPv4 address or "dhcp" for DHCP  
192.168.56.50
- 2) IPv4 netmask  
255.255.255.0
- 3) IPv4 gateway  
192.168.56.1
- 4) IPv6 address[/prefix] or "auto" for automatic, "dhcp" for DHCP, "ignore" to turn off  
auto
- 5) IPv6 default gateway
- 6) Nameservers (comma separated)  
8.8.8.8,8.8.4.4
- 7) [x] Connect automatically after reboot
- 8) [x] Apply configuration in installer

```
Configuring device enp1s0.
```

Validez les configurations actuelles en appuyant sur la touche **c** :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: c
```

```
=====
=====
Network configuration
```

```
Wired (enp1s0) disconnected
```

```
Host Name: testvm1.ittraining.network
```

Current host name: localhost

- 1) Set host name
- 2) Configure device enp1s0

Pour retourner au menu principal, appuyez sur la touche **c** de nouveau :

Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to refresh]: c

=====  
=====

## Installation

- |                                                                                            |                                                                                       |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Language settings<br>(French (France))              | 2) <input checked="" type="checkbox"/> Time settings<br>(America/New_York timezone)   |
| 3) <input type="checkbox"/> Installation source<br>(Error setting up software source)      | 4) <input type="checkbox"/> Software selection<br>(Error checking software selection) |
| 5) <input type="checkbox"/> Installation Destination<br>(No disks selected)                | 6) <input checked="" type="checkbox"/> Kdump<br>(Kdump is enabled)                    |
| 7) <input checked="" type="checkbox"/> Network configuration<br>(Wired (enp1s0) connected) | 8) <input type="checkbox"/> Root password<br>(Password is not set.)                   |
| 9) <input type="checkbox"/> User creation<br>(No user will be created)                     |                                                                                       |

Please make a selection from the above ['b' to begin installation, 'q' to quit, 'r' to refresh]:

[anaconda]1:main\* 2:shell 3:log 4:storage-log >Switch tab: Alt+Tab | Help: F1

## Time settings

Choisissez maintenant l'option **2** pour définir le fuseau d'horaire de la VM :

=====  
=====  
Installation

- |                                                                                            |                                                                                          |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Language settings<br>(French (France))              | 2) <input checked="" type="checkbox"/> Time settings<br>(America/New_York timezone)      |
| 3) <input type="checkbox"/> Installation source<br>(Error setting up software<br>source)   | 4) <input type="checkbox"/> Software selection<br>(Error checking software<br>selection) |
| 5) <input type="checkbox"/> Installation Destination<br>(No disks selected)                | 6) <input checked="" type="checkbox"/> Kdump<br>(Kdump is enabled)                       |
| 7) <input checked="" type="checkbox"/> Network configuration<br>(Wired (enp1s0) connected) | 8) <input type="checkbox"/> Root password<br>(Password is not set.)                      |
| 9) <input type="checkbox"/> User creation<br>(No user will be created)                     |                                                                                          |

Please make a selection from the above ['b' to begin installation, 'q' to quit,  
'r' to refresh]: 2

=====  
=====  
Time settings

Timezone: America/New\_York

NTP servers: not configured

- 1) Change timezone
- 2) Configure NTP servers

Choisissez l'option **1** pour modifier le fuseau d'horaire :

Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to  
refresh]: 1

=====

=====  
Timezone settings

## Available regions

- |            |               |            |
|------------|---------------|------------|
| 1) Europe  | 5) Antarctica | 9) Indian  |
| 2) Asia    | 6) Pacific    | 10) Arctic |
| 3) America | 7) Australia  | 11) US     |
| 4) Africa  | 8) Atlantic   | 12) Etc    |

Appuyez sur la touche **1** pour choisir **Europe** :

Please select the timezone. Use numbers or type names directly ['b' back to region list, 'c' to continue, 'q' to quit, 'r' to refresh]: 1

- =====  
=====
- |                 |                 |                |
|-----------------|-----------------|----------------|
| 1) Amsterdam    | 21) Kaliningrad | 41) San_Marino |
| 2) Andorra      | 22) Kiev        | 42) Sarajevo   |
| 3) Astrakhan    | 23) Kirov       | 43) Saratov    |
| 4) Athens       | 24) Lisbon      | 44) Simferopol |
| 5) Belgrade     | 25) Ljubljana   | 45) Skopje     |
| 6) Berlin       | 26) London      | 46) Sofia      |
| 7) Bratislava   | 27) Luxembourg  | 47) Stockholm  |
| 8) Brussels     | 28) Madrid      | 48) Tallinn    |
| 9) Bucharest    | 29) Malta       | 49) Tirane     |
| 10) Budapest    | 30) Mariehamn   | 50) Ulyanovsk  |
| 11) Busingen    | 31) Minsk       | 51) Uzhgorod   |
| 12) Chisinau    | 32) Monaco      | 52) Vaduz      |
| 13) Copenhagen  | 33) Moscow      | 53) Vatican    |
| 14) Dublin      | 34) Oslo        | 54) Vienna     |
| 15) Gibraltar   | 35) Paris       | 55) Vilnius    |
| 16) Guernsey    | 36) Podgorica   | 56) Volgograd  |
| 17) Helsinki    | 37) Prague      | 57) Warsaw     |
| 18) Isle_of_Man | 38) Riga        | 58) Zagreb     |

- |              |            |                |
|--------------|------------|----------------|
| 19) Istanbul | 39) Rome   | 59) Zaporozhye |
| 20) Jersey   | 40) Samara | 60) Zurich     |

Puis choisissez l'option **35** pour Paris :

```
Please select the timezone. Use numbers or type names directly ['b' back to
region list, 'c' to continue, 'q' to quit, 'r' to refresh]: 35
```

```
=====
=====
Installation
```

- |                                                                                            |                                                                                          |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Language settings<br>(French (France))              | 2) <input checked="" type="checkbox"/> Time settings<br>(Europe/Paris timezone)          |
| 3) <input type="checkbox"/> Installation source<br>(Error setting up software<br>source)   | 4) <input type="checkbox"/> Software selection<br>(Error checking software<br>selection) |
| 5) <input type="checkbox"/> Installation Destination<br>(No disks selected)                | 6) <input checked="" type="checkbox"/> Kdump<br>(Kdump is enabled)                       |
| 7) <input checked="" type="checkbox"/> Network configuration<br>(Wired (enp1s0) connected) | 8) <input type="checkbox"/> Root password<br>(Password is not set.)                      |
| 9) <input type="checkbox"/> User creation<br>(No user will be created)                     |                                                                                          |

```
Please make a selection from the above ['b' to begin installation, 'q' to quit,
'r' to refresh]:
```

## Root password

Pour définir le mot de passe root de la VM, choisissez l'option **8** et indiquez le mot de passe **fenestros** :

```
=====
=====
```

## Installation

- |                                                                     |                                                                     |
|---------------------------------------------------------------------|---------------------------------------------------------------------|
| 1) [x] Language settings<br>(French (France))                       | 2) [x] Time settings<br>(Europe/Paris timezone)                     |
| 3) [!] Installation source<br>(Error setting up software<br>source) | 4) [!] Software selection<br>(Error checking software<br>selection) |
| 5) [!] Installation Destination<br>(No disks selected)              | 6) [x] Kdump<br>(Kdump is enabled)                                  |
| 7) [x] Network configuration<br>(Wired (enp1s0) connected)          | 8) [!] Root password<br>(Password is not set.)                      |
| 9) [!] User creation<br>(No user will be created)                   |                                                                     |

Please make a selection from the above ['b' to begin installation, 'q' to quit,  
'r' to refresh]: 8

=====  
=====  
Root password

Please select new root password. You will have to type it twice.

Password: fenestros

Password (confirm): fenestros

=====  
=====  
Question

The password you have provided is weak: The password fails the dictionary check  
- it is based on a dictionary word  
Would you like to use it anyway?

Please respond 'yes' or 'no': yes

=====

=====  
Installation

- |                                                                                            |                                                                                          |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Language settings<br>(French (France))              | 2) <input checked="" type="checkbox"/> Time settings<br>(Europe/Paris timezone)          |
| 3) <input type="checkbox"/> Installation source<br>(Error setting up software<br>source)   | 4) <input type="checkbox"/> Software selection<br>(Error checking software<br>selection) |
| 5) <input type="checkbox"/> Installation Destination<br>(No disks selected)                | 6) <input checked="" type="checkbox"/> Kdump<br>(Kdump is enabled)                       |
| 7) <input checked="" type="checkbox"/> Network configuration<br>(Wired (enp1s0) connected) | 8) <input checked="" type="checkbox"/> Root password<br>(Password is set.)               |
| 9) <input type="checkbox"/> User creation<br>(No user will be created)                     |                                                                                          |

Please make a selection from the above ['b' to begin installation, 'q' to quit,  
'r' to refresh]:

**Installation source**

Choisissez l'option **3** :

=====  
Installation

- |                                                                                          |                                                                                          |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Language settings<br>(French (France))            | 2) <input checked="" type="checkbox"/> Time settings<br>(Europe/Paris timezone)          |
| 3) <input type="checkbox"/> Installation source<br>(Error setting up software<br>source) | 4) <input type="checkbox"/> Software selection<br>(Error checking software<br>selection) |
| 5) <input type="checkbox"/> Installation Destination<br>(No disks selected)              | 6) <input checked="" type="checkbox"/> Kdump<br>(Kdump is enabled)                       |

```
7) [x] Network configuration 8) [x] Root password
 (Wired (enpls0) connected) (Password is set.)
9) [] User creation
 (No user will be created)
```

```
Please make a selection from the above ['b' to begin installation, 'q' to quit,
'r' to refresh]: 3
```

```
=====
Installation source
```

```
Choose an installation source type.
```

- 1) CD/DVD
- 2) local ISO file
- 3) Network

L'ISO utilisé est de type **net-install**. Choisissez donc l'option **3** :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: 3
```

```
=====
Installation source
```

- 1) Closest mirror
- 2) http://
- 3) https://
- 4) ftp://
- 5) nfs

Choisissez l'option **3** et indiquez l'URL [https://vault.centos.org/8.1.1911/BaseOS/x86\\_64/os](https://vault.centos.org/8.1.1911/BaseOS/x86_64/os) :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: 1
```

```
=====
=====
Installation
```

- |                                                                                                                                                                                        |                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Language settings<br>(French (France))                                                                                                          | 2) <input checked="" type="checkbox"/> Time settings<br>(Europe/Paris timezone) |
| 3) <input checked="" type="checkbox"/> Installation source<br><a href="https://vault.centos.org/8.1.1911/BaseOS/x86_64/os">https://vault.centos.org/<br/>8.1.1911/BaseOS/x86_64/os</a> | 4) <input type="checkbox"/> Software selection<br>(Nothing selected)            |
| 5) <input type="checkbox"/> Installation Destination<br>(No disks selected)                                                                                                            | 6) <input checked="" type="checkbox"/> Kdump<br>(Kdump is enabled)              |
| 7) <input checked="" type="checkbox"/> Network configuration<br>(Wired (enpls0) connected)                                                                                             | 8) <input checked="" type="checkbox"/> Root password<br>(Password is set.)      |
| 9) <input type="checkbox"/> User creation<br>(No user will be created)                                                                                                                 |                                                                                 |

Please make a selection from the above ['b' to begin installation, 'q' to quit, 'r' to refresh]:

## Software selection

Choisissez l'option **4** puis l'option **3** pour indiquer une installation minimale du système :

```
=====
=====
Installation
```

- |                                                                                                                                                                                        |                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Language settings<br>(French (France))                                                                                                          | 2) <input checked="" type="checkbox"/> Time settings<br>(Europe/Paris timezone) |
| 3) <input checked="" type="checkbox"/> Installation source<br><a href="https://vault.centos.org/8.1.1911/BaseOS/x86_64/os">https://vault.centos.org/<br/>8.1.1911/BaseOS/x86_64/os</a> | 4) <input type="checkbox"/> Software selection<br>(Nothing selected)            |
| 5) <input type="checkbox"/> Installation Destination                                                                                                                                   | 6) <input checked="" type="checkbox"/> Kdump                                    |

- ```
(No disks selected)                (Kdump is enabled)
7) [x] Network configuration          8) [x] Root password
   (Wired (enp1s0) connected)        (Password is set.)
9) [ ] User creation
   (No user will be created)
```

Please make a selection from the above ['b' to begin installation, 'q' to quit, 'r' to refresh]: 4

```
=====
=====
Software selection
```

Base environment

- ```
1) [] Server with GUI 4) [] Workstation
2) [] Server 5) [] Virtualization Host
3) [] Minimal Install 6) [] Custom Operating System
```

Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to refresh]: 3

```
=====
=====
Software selection
```

Base environment

- ```
1) [ ] Server with GUI              4) [ ] Workstation
2) [ ] Server                       5) [ ] Virtualization Host
3) [x] Minimal Install              6) [ ] Custom Operating System
```

Appuyez ensuite sur la touche **c** pour pouvoir éventuellement choisir des installations supplémentaires :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: c
```

```
=====
=====
Software selection
```

```
Additional software for selected environment
```

- | | |
|---------------------------------------|----------------------------------|
| 1) [] Guest Agents | 8) [] Headless Management |
| 2) [] Standard | 9) [] Legacy UNIX Compatibility |
| 3) [] Container Management | 10) [] Network Servers |
| 4) [] .NET Core Development | 11) [] Scientific Support |
| 5) [] RPM Development Tools | 12) [] Security Tools |
| 6) [] Development Tools | 13) [] Smart Card Support |
| 7) [] Graphical Administration Tools | 14) [] System Tools |

Ne choisissez rien dans la liste et appuyez simplement sur la touche **c** pour revenir au menu principal :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: c
```

```
=====
=====
Installation
```

- | | |
|--|---|
| 1) [x] Language settings
(French (France)) | 2) [x] Time settings
(Europe/Paris timezone) |
| 3) [!] Installation source
(Processing...) | 4) [!] Software selection
(Processing...) |
| 5) [!] Installation Destination
(No disks selected) | 6) [x] Kdump
(Kdump is enabled) |
| 7) [x] Network configuration
(Wired (enpls0) connected) | 8) [x] Root password
(Password is set.) |
| 9) [] User creation
(No user will be created) | |

```
Please make a selection from the above ['b' to begin installation, 'q' to quit,
```

```
'r' to refresh]: r
=====
=====
Installation

1) [x] Language settings          2) [x] Time settings
   (French (France))              (Europe/Paris timezone)
3) [x] Installation source        4) [x] Software selection
   https://vault.centos.org/      (Minimal Install)
   8.1.1911/BaseOS/x86_64/os
5) [!] Installation Destination   6) [x] Kdump
   (No disks selected)            (Kdump is enabled)
7) [x] Network configuration      8) [x] Root password
   (Wired (enp1s0) connected)     (Password is set.)
9) [ ] User creation
   (No user will be created)

Please make a selection from the above ['b' to begin installation, 'q' to quit,
'r' to refresh]:
```

Installation Destination

Choisissez l'option **5** pour définir l'emplacement de l'installation :

```
=====
=====
Installation

1) [x] Language settings          2) [x] Time settings
   (French (France))              (Europe/Paris timezone)
3) [x] Installation source        4) [x] Software selection
   https://vault.centos.org/      (Minimal Install)
   8.1.1911/BaseOS/x86_64/os
```

```
5) [!] Installation Destination          6) [x] Kdump
    (No disks selected)                (Kdump is enabled)
7) [x] Network configuration           8) [x] Root password
    (Wired (enpls0) connected)         (Password is set.)
9) [ ] User creation
    (No user will be created)
```

```
Please make a selection from the above ['b' to begin installation, 'q' to quit,
'r' to refresh]: 5
Probing storage...
```

Sélectionnez le disque **vda** et appuyez sur la touche **c** :

```
=====
=====
Installation Destination
```

```
1) [x] : 5 GiB (vda)
```

```
1 disk selected; 5 GiB capacity; 5 GiB free ...
```

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: c
```

A ce stade il vous est possible de choisir l'option **4** et de créer des partitions spécifiques en termes de points de montage en fonction de l'utilisation prévue pour la VM. Dans le cas de ce LAB, appuyez simplement sur le choix **2** puis sur la touche **c** :

```
=====
=====
Partitioning Options
```

```
1) [ ] Replace Existing Linux system(s)
```

```
2) [ ] Use All Space
```

```
3) [ ] Use Free Space
```

4) [] Manually assign mount points

Installation requires partitioning of your hard drive. Select what space to use for the install target or manually assign mount points.

Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to refresh]: 2

=====
=====
Partitioning Options

- 1) [] Replace Existing Linux system(s)
- 2) [x] Use All Space
- 3) [] Use Free Space
- 4) [] Manually assign mount points

Installation requires partitioning of your hard drive. Select what space to use for the install target or manually assign mount points.

Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to refresh]: c

A ce stade il vous est possible de choisir le type d'installation, soit **Standard Partition**, **LVM** ou **LVM Thin Provisioning**. Notez que le choix par défaut proposé est **LVM** :

=====
=====
Partition Scheme Options

- 1) [] Standard Partition
- 2) [x] LVM
- 3) [] LVM Thin Provisioning

```
Select a partition scheme configuration.
```

Bien que préférable de choisir l'option par défaut pour des VMs en production . Par contre, pour des raisons liées à la suite de ce LAB, choisissez l'option **1** puis sur la touche **c** :

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: 1
```

```
=====
=====
```

```
Partition Scheme Options
```

- 1) [] Standard Partition
- 2) [] LVM
- 3) [] LVM Thin Provisioning

```
Select a partition scheme configuration.
```

```
Please make a selection from the above ['c' to continue, 'q' to quit, 'r' to
refresh]: c
```

```
Generating updated storage configuration
Checking storage configuration...
```

Démarrer l'Installation

De retour au menu principal, choisissez l'option **b** pour démarrer l'installation :

```
=====
=====
```

```
Installation
```

- 1) [] Language settings
(French (France))
- 2) [] Time settings
(Europe/Paris timezone)

- | | |
|--|--|
| 3) <input checked="" type="checkbox"/> Installation source
https://vault.centos.org/
8.1.1911/BaseOS/x86_64/os | 4) <input checked="" type="checkbox"/> Software selection
(Minimal Install) |
| 5) <input checked="" type="checkbox"/> Installation Destination
(Automatic partitioning
selected) | 6) <input checked="" type="checkbox"/> Kdump
(Kdump is enabled) |
| 7) <input checked="" type="checkbox"/> Network configuration
(Wired (enpl0) connected) | 8) <input checked="" type="checkbox"/> Root password
(Password is set.) |
| 9) <input type="checkbox"/> User creation
(No user will be created) | |

Please make a selection from the above ['b' to begin installation, 'q' to quit,
'r' to refresh]: b



Important : Notez que nous n'avons pas spécifié d'utilisateurs. Cette décision n'est pas bloquante pour la suite de l'installation.

L'installation démarre et se poursuit :

```
...
Configuring storage
.
Installing boot loader
.
Performing post-installation setup tasks
.

Configuring installed system
.....
Writing network configuration
.
Creating users
```

```
....  
Configuring addons  
Executing com_redhat_kdump addon  
Executing org_fedora_oscap addon  
.  
Generating initramfs  
.  
Running post-installation scripts  
.  
Storing configuration files and kickstarts  
..
```

Démarrer la VM

A l'issu de l'installation, appuyez sur la touche [Enter] pour démarrez la VM :

```
Installation complete. Press ENTER to quit:  
...  
[ OK ] Started Network Manager.  
Starting Network Manager Wait Online...  
[ OK ] Reached target Network.  
Starting OpenSSH server daemon...  
Starting Permit User Sessions...  
Starting Dynamic System Tuning Daemon...  
Starting Hostname Service...  
[ OK ] Started OpenSSH server daemon.  
[ OK ] Started Permit User Sessions.  
Starting Hold until boot process finishes up...  
[ OK ] Started Command Scheduler.  
Starting Terminate Plymouth Boot Screen...  
[ 18.386454] IPv6: ADDRCONF(NETDEV_UP): enp1s0: link is not ready
```

1.5 - Vérification de la VM Invitée

Au prompt, connectez-vous en tant que **root** avec le mot de passe **fenestros** :

```
CentOS Linux 8
Kernel 4.18.0-305.12.1.el8_4.x86_64 on an x86_64

testvm1 login: root
Mot de passe : fenestros
[root@testvm1 ~]#
```

Réseau

Vérifiez la prise en compte d'une adresse IPv4 dans le réseau 192.168.56.0/24 :

```
[root@testvm1 ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp1s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:44:af:a1 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.83/24 brd 192.168.56.255 scope global dynamic noprefixroute enp1s0
        valid_lft 3534sec preferred_lft 3534sec
    inet6 fe80::6191:6417:8b53:bcb9/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

Internet

Vérifiez la connectivité de la VM :

```
[root@testvm1 ~]# ping www.free.fr
PING www.free.fr (212.27.48.10) 56(84) bytes of data.
64 bytes from www.free.fr (212.27.48.10): icmp_seq=1 ttl=46 time=29.9 ms
64 bytes from www.free.fr (212.27.48.10): icmp_seq=2 ttl=46 time=30.1 ms

--- www.free.fr ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 29.887/29.989/30.091/0.102 ms
```

Avant de poursuivre, exécutez les deux commandes suivantes pour réparer les dépôts cassés :

```
[root@centos8 ~]# sed -i 's/^mirrorlist/#mirrorlist/g' /etc/yum.repos.d/CentOS-*
[root@centos8 ~]# sed -i 's|#baseurl=http://mirror.centos.org|baseurl=http://vault.centos.org|g'
/etc/yum.repos.d/CentOS-*
```

Détachez-vous de la VM :

```
[root@testvm1 ~]# [ALT GR]+[CTRL]+[)]
[root@centos8 ~]#
```



Important : Notez l'utilisation de la séquence de touches [ALT GR]+[CTRL]+[)] sur un clavier français afin de se détacher de la VM. C'est-à-dire, la touche [AltGr] et rester appuyer plus la touche [Ctrl] et rester appuyer plus la touche [)]. Si cela ne fonctionne pas utilisez [CTRL]+[VER MAJ]+[5].

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