NAME

virt−p2v−make−disk − Build the virt−p2v disk using virt−builder

SYNOPSIS

```
virt−p2v−make−disk −o /dev/sdX [os−version]
```

DESCRIPTION

virt−p2v (1) converts a physical machine to run virtualized on KVM, managed by libvirt, OpenStack, oVirt, Red Hat Enterprise Virtualisation (RHEV), or one of the other targets supported by **virt−v2v** (1).

virt−p2v−make−disk is a script which creates a bootable disk image or USB key containing virt−p2v. It uses **virt−builder** (1) to do this, and is just a small shell script around virt-builder.

The required *−o* parameter specifies where the output should go, for example to a USB key (eg. `−o /dev/sdX`) or to a file. If you pass a device name, then **the existing contents of the device will be erased**.

The root user on the disk image uses `p2v` as its initial password.

`os−version` parameter

The optional `os−version` parameter is the base Linux distro to use for the operating system on the ISO. If you don't set this parameter, the script tries to choose a suitable default for you. Most users should *not* use the `os−version` parameter.

The base OS selected for virt−p2v is not related in any way to the OS of the physical machine that you are trying to convert.

To list possible `os−version` combinations, do:

```
virt−builder −l
```

EXAMPLES

Write a virt−p2v bootable USB key on */dev/sdX* (any existing content on */dev/sdX* is erased):

```
virt−p2v−make−disk −o /dev/sdX
```

Write a virt−p2v bootable virtual disk image, and boot it under qemu:

```
virt−p2v−make−disk −o /var/tmp/p2v.img
qemu−kvm −m 1024 −boot c \
  −drive file=/var/tmp/p2v.img,if=virtio,index=0 \
  −drive file=/var/tmp/guest.img,if=virtio,index=1
```

where */var/tmp/guest.img* would be the disk image of some guest that you want to convert (for testing only).

ADDING EXTRA PACKAGES

You can install extra packages using the *−−install* option. This can be useful for making a more fully-featured virt−p2v disk with extra tools for debugging and troubleshooting. Give a list of packages, separated by commas. For example:

```
virt−p2v−make−disk −o /var/tmp/p2v.img −−install tcpdump,traceroute
```

ADDING AN SSH IDENTITY

You can inject an SSH identity (private key) file to the image using the *−−inject−ssh−identity* option.

First create a key pair. It must have an empty passphrase:

```
ssh−keygen −t rsa −N '' −f id_rsa
```

This creates a private key (`id_rsa`) and a public key (`id_rsa.pub`) pair. The public key should be appended to the `authorized_keys` file on the virt−v2v conversion server (usually to `/root/.ssh/authorized_keys`).

The private key should be injected into the disk image and then discarded:

```
virt-p2v-make-disk [...] --inject-ssh-identity id_rsa
rm id_rsa
```

When booting virt-p2v, specify the URL of the injected file like this:

```
|         User name: [root_____________________________] |
|                                                        |
|          Password: [    <leave this field blank>     ] |
|                                                        |
|  SSH Identity URL: [file:///var/tmp/id_rsa___________] |
```

or if using the kernel command line, add:

```
p2v.identity=file:///var/tmp/id_rsa
```

For more information, see ''SSH IDENTITIES'' in **virt-p2v**(1).

32 BIT VIRT-P2V

For improved compatibility with older hardware, virt-p2v-make-disk has an *--arch* option. The most useful setting (on x86-64 hosts) is *--arch i686*, which builds a 32 bit virt-p2v environment that will work on older hardware. 32 bit virt-p2v can convert 64 bit physical machines and can interoperate with 64 bit virt-v2v and 64 bit hypervisors.

This option requires that you have built *virt-p2v.$arch* (ie. usually *virt-p2v.i686*) by some means, and that you install it next to the ordinary *virt-p2v* binary (eg. in *`$libdir`/virt-p2v/* or `$VIRT_V2V_DATA_DIR`). This is outside the scope of this manual page, but you can find some tips in ''BUILDING i686 32 BIT VIRT-P2V'' in **p2v-building**(1).

OPTIONS

--help
Display help.

--arch ARCH
Set the architecture of the virt-p2v ISO. See ''32 BIT VIRT-P2V'' above.

If this option is not supplied, then the default is to use the same architecture as the host that is running virt-p2v-make-disk.

--inject-ssh-identity id_rsa
Add an SSH identity (private key) file into the image. See ''ADDING AN SSH IDENTITY'' above.

--install pkg,pkg,...
Add extra packages to the image. See ''ADDING EXTRA PACKAGES'' above.

--no-warn-if-partition
Normally you should not write to a partition on a USB drive (ie. don't use `-o/dev/sdX1`, use `-o/dev/sdX` to make a bootable USB drive). If you do this, virt-builder prints a warning. This option suppresses that warning.

-o OUTPUT
--output OUTPUT
Write output to `OUTPUT`, which can be a local file or block device. **The existing contents of the device will be erased**.

-v
--verbose
Enable verbose output. Use this if you need to debug problems with the script or if you are filing a bug.

-V
--version
Display version number and exit.

FILES

$libdir/virt-p2v/virt-p2v.xz

The **virt-p2v** (1) binary which is copied into the bootable disk image.

The location of the binary can be changed by setting the `VIRT_P2V_DATA_DIR` environment variable.

$datadir/virt-p2v/issue
$datadir/virt-p2v/launch-virt-p2v.in
$datadir/virt-p2v/p2v.service

Various data files that are copied into the bootable disk image.

The location of these files can be changed by setting the `VIRT_P2V_DATA_DIR` environment variable.

ENVIRONMENT VARIABLES

`VIRT_P2V_DATA_DIR`

The directory where virt-p2v-make-disk looks for data files (see ''FILES'' above). If not set, a compiled-in location is used.

SEE ALSO

virt-p2v (1), **virt-p2v-make-kickstart** (1), **virt-p2v-make-kiwi** (1), **virt-v2v** (1), http://libguestfs.org/.

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BUGS

To get a list of bugs against libguestfs (which include virt-p2v), use this link: https://bugzilla.redhat.com/buglist.cgi?component=libguestfs&product=Virtualization+Tools

To report a new bug against libguestfs, use this link: https://bugzilla.redhat.com/enter_bug.cgi?component=libguestfs&product=Virtualization+Tools

When reporting a bug, please supply:

- The version of virt-p2v.
- Where you got virt-p2v (eg. which Linux distro, compiled from source, etc)
- Describe the bug accurately and give a way to reproduce it.