

Building or downloading a deploy ramdisk image

[« \(configdrive.html\)](#) | [» \(setup-drivers.html\)](#) | [🐛 \(https://bugs.launchpad.net/ironic/+filebug?field.title=Building%20or%20downloading%20a%20deploy%20ramdisk%20image%20in%20Installation%20Guide%20for%20Bare%20Metal%20Service&field.comment=-----%0ARelease:%200.1%20on%202016-11-09%2020:35%0ASHA:%20e3bedc4eadbafbf11c1e26a216e9d40a1839a838%0ASource:%20http://git.openstack.org/cgit/openstack/ironic/tree/install-guide/source/deploy-ramdisk.rst%0AURL: http://docs.openstack.org/project-install-guide/baremetal/draft/deploy-ramdisk.html&field.tags=install-guide\)](https://bugs.launchpad.net/ironic/+filebug?field.title=Building%20or%20downloading%20a%20deploy%20ramdisk%20image%20in%20Installation%20Guide%20for%20Bare%20Metal%20Service&field.comment=-----%0ARelease:%200.1%20on%202016-11-09%2020:35%0ASHA:%20e3bedc4eadbafbf11c1e26a216e9d40a1839a838%0ASource:%20http://git.openstack.org/cgit/openstack/ironic/tree/install-guide/source/deploy-ramdisk.rst%0AURL: http://docs.openstack.org/project-install-guide/baremetal/draft/deploy-ramdisk.html&field.tags=install-guide)

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IroniC depends on having an image with the [ironic-python-agent](http://docs.openstack.org/developer/ironic-python-agent/) (IPA) service running on it for controlling and deploying bare metal nodes.

You can download a pre-built version of the deploy ramdisk built with the [CoreOS tools](#) at:

- [CoreOS deploy kernel](http://tarballs.openstack.org/ironic-python-agent/coreos/files/coreos_production_pxe.vmlinuz) (http://tarballs.openstack.org/ironic-python-agent/coreos/files/coreos_production_pxe.vmlinuz)
- [CoreOS deploy ramdisk](http://tarballs.openstack.org/ironic-python-agent/coreos/files/coreos_production_pxe_image-oem.cpio.gz) (http://tarballs.openstack.org/ironic-python-agent/coreos/files/coreos_production_pxe_image-oem.cpio.gz)

Building from source

There are two known methods for creating the deployment image with the IPA service:

CoreOS tools

1. Clone the [ironic-python-agent](http://docs.openstack.org/developer/ironic-python-agent/) project:

```
git clone https://git.openstack.org/openstack/ironic-python-agent
```

2. Install the requirements:

```
Fedora 21/RHEL7/CentOS7:
    sudo yum install docker gzip util-linux cpio findutils grep pgp

Fedora 22 or higher:
    sudo dnf install docker gzip util-linux cpio findutils grep pgp

Ubuntu 14.04 (trusty) or higher:
    sudo apt-get install docker.io gzip uuid-runtime cpio findutils grep gnupg
```

3. Change directory to `imagebuild/coreos`:

```
cd ironic-python-agent/imagebuild/coreos
```

4. Start the docker daemon:

```
Fedora/RHEL7/CentOS7:
    sudo systemctl start docker

Ubuntu:
    sudo service docker start
```

5. Create the image:

```
sudo make
```

6. Or, create an ISO image to boot with virtual media:

```
sudo make iso
```

✓ Note

Once built the deploy ramdisk and kernel will appear inside of a directory called `UPLOAD`.

disk-image-builder

- 1. Follow [diskimage-builder installation documentation \(http://docs.openstack.org/developer/diskimage-builder/user_guide/installation.html\)](http://docs.openstack.org/developer/diskimage-builder/user_guide/installation.html) to install diskimage-builder.
- 2. Create the image:

```
disk-image-create ironic-agent fedora -o ironic-deploy
```

The above command creates the deploy ramdisk and kernel named `ironic-deploy.vmlinuz` and `ironic-deploy.initramfs` in your current directory.

- 3. Or, create an ISO image to boot with virtual media:

```
disk-image-create ironic-agent fedora iso -o ironic-deploy
```

The above command creates the deploy ISO named `ironic-deploy.iso` in your current directory.

Note

Fedora was used as an example for the base operational system. Please check the [diskimage-builder documentation \(http://docs.openstack.org/developer/diskimage-builder\)](http://docs.openstack.org/developer/diskimage-builder) for other supported operational systems.

« (configdrive.html) » (setup-drivers.html) 🐛 (https://bugs.launchpad.net/ironic/+filebug?

field.title=Building%20or%20downloading%20a%20deploy%20ramdisk%20image%20in%20Installation%20Guide%20for%20Bare%20Metal%20Service&field.comment=-----%0ARElease:%200.1%20on%202016-11-09%2020:35%0ASHA:%20e3bedc4eadbafbf11c1e26a216e9d40a1839a838%0ASource:%20http://git.openstack.org/cgit/openstack/ironic/tree/install-guide/source/deploy-ramdisk.rst%0AURL: http://docs.openstack.org/project-install-guide/baremetal/draft/deploy-ramdisk.html&field.tags=install-guide)

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🐛 FOUND AN ERROR? REPORT A BUG (HTTPS://BUGS.LAUNCHPAD.NET/IRONIC/+FILEBUG? FIELD.TITLE=BUILDING%20OR%20DOWNLOADING%20A%20DEPLOY%20RAMDISK%20IMAGE%20IN%20INSTALLATION%20GUIDE%20FOR%20BARE%20METAL%20SERVICE&FIELD.COMMENT=%0A%0A-----%0ARELEASE:%200.1%20ON%202016-11-09%2020:35%0ASHA:%20E3BEDC4EADBAFBF11C1E26A216E9D40A1839A838%0ASOURCE:%20HTTP://GIT.OPENSTACK.ORG/CGIT/OPENSTACK/IRONIC/TREE/INSTALL-GUIDE/SOURCE/DEPLOY-RAMDISK.RST%0AURL: HTTP://DOCS.OPENSTACK.ORG/PROJECT-INSTALL-GUIDE/BAREMETAL/DRAFT/DEPLOY-RAMDISK.HTML&FIELD.TAGS=INSTALL-GUIDE)

❓ QUESTIONS? (HTTP://ASK.OPENSTACK.ORG)



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