Building or downloading a deploy ramdisk image

🐞 (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)
- CoreOS deploy ramdisk (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 gpg

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

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) 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) 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.comme
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FIELD.TITLE=BUILDING%20OR%20DOWNLOADING%20A%20DEPLOY%20RAMDISK%20IMAGE%20IN%20INSTALLATION%20GUIDE%20FOR%20BARE%20METAL%20SERVICE&FIELD.COMMENT=%0A%0A--------
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❓ QUESTIONS? (HTTP://ASK.OPENSTACK.ORG)

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