

Install Fedora Core OS (FCOS)

CoreOS uses an ignite file to determine the parameters for the installation. This can be a file on a disk or a file on a webserver.

Installation methods for openshift and OKD use this to push installation configurations over ssh.

create the ignite file

you do this by creating a butane config yaml and converting it to an ignite json using butane.

install butane on a fedora workstation

```
dnf install -y butane
```

create the butane config file

Create a yaml file with your config, mid the indentation. In this example only a group and a user with a specific uid is created. I name this file *version1.bu* (an exhaustive list of the options for butane config can be found [here](#))

```
version: 1.6.0
passwd:
  groups:
    - name: beheerders
      gid: 700
  users:
    - name: abel
      uid: 700
      primary_group: users
      groups:
        - beheerders
      ssh_authorized_keys:
        - ssh-ed25519 AAAAC3.....P abel@nergens
```

convert the butane file to an ignite file

Then with butane transform it to the ignite json:

```
butane --pretty --strict version1.bu > version1.ign
```

the resulting json file *version1.ign* looks like:

```
{
```

```
"ignition": {
  "version": "3.5.0"
},
"passwd": {
  "groups": [
    {
      "gid": 700,
      "name": "beheerders"
    }
  ],
  "users": [
    {
      "groups": [
        "beheerders"
      ],
      "name": "abel",
      "primaryGroup": "users",
      "sshAuthorizedKeys": [
        "ssh-ed25519 AAAAC3N.....P abel@nergens"
      ],
      "uid": 700
    }
  ]
}
```

save the ignite file

Copy the previously made ignite file to a separate USB disk formatted with xfs filesystem for use in installation later.

create an USB installation disk

download Fedora Core OS

Download the fedora coreos image from :

https://fedoraproject.org/coreos/download?stream=stable&arch=x86_64

and create a bootable installation medium USB stick using *dd* or *Rufus*

boot and install the target baremetal server

stick the USB install disk in the server, turn on and in the BIOS or in the bootmenu choose the USB

device as boot device.

once the system is booted, insert the separate stick with the ignite file in the server and mount it. On the prompt enter:

```
lsblk
```

and choose the disk to install to (in this example /dev/sda). Then start the installation :

```
sudo coreos-installer install /dev/sda --ignition-file /path/to/seperate-USB-stick/version1.ign
```

sources

<https://www.flatcar.org/docs/latest/provisioning/config-transpiler/configuration/>

<https://docs.fedoraproject.org/en-US/fedora-coreos/bare-metal/>

further reading:

<https://www.redhat.com/en/blog/red-hat-enterprise-linux-coreos-customization>

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