



# Launching an instance with a configuration drive

## Background: OpenStack metadata discovery

OpenStack Compute uses metadata to inject custom configurations to instances on boot. You can add custom scripts, install packages, and add SSH keys to the instances using metadata.

By default, metadata discovery in Cleura Cloud uses an HTTP data source that booting instances connect to. Sometimes this is undesirable or — for specific instance/networking configurations — unreliable. Under those circumstances, you can use an alternate configuration source.

## Store metadata on a configuration drive

A **configuration drive** (config drive) is a read-only virtual drive that is attached to an instance during boot. The instance can then mount the drive and read files from it. Configuration drives are used as a data source for [cloud-init](#).

## Enable the configuration drive on server creation (`openstack` CLI)

To enable the configuration drive, you need to pass the parameter `--use-config-drive` to the `openstack server create` command.

In the following example, replace the image, flavor, keypair, and network reference, as well as the instance name, to match your desired configuration.

```
openstack server create \  
  --use-config-drive \  
  --image "Ubuntu 20.04 Focal Fossa" \  
  --flavor b.1c2gb \  
  --keypair mykey \  
  --nic net-id=3a747038-ee59-404c-973d-5f795e8ebb73 \  
  myinstance
```

Once the instance launches, you can monitor its configuration process by monitoring the instance console log:

```
openstack console log show myinstance
```

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Authors: [NamrataSitlani](#)