Atlas Flyaway Kit - Setup Guide

Hardware components

- HP Z2 Mini G4 Workstation PC (aka NUC - Next Unit of Computing)
    - + power supply brick (100-240V)
    - + power cable (US plug) + plug adapter (Universal → EU plug)
- Netgear R6220 Wifi router
    - + power supply (110V, US plug)
    - + voltage converter/plug adapter (220 -> 110V, Universal → EU plug)
- Ethernet cable
- Wired keyboard & mouse
- Display cables (DisplayPort to Mini DisplayPort, DisplayPort to HDMI)
- USB thumb drive with data backups

Not included

- Wifi-enabled laptop with web browser, to access flyaway kit's network & Atlas server
- [optional] External monitor with HDMI or MiniDisplayPort input for direct access to Z2's desktop operating system (Ubuntu 16.04)

Notes for Windows users

Windows 10

- If running Windows 10, you can use the built-in OpenSSH to connect
- If you need to download a new version of Atlas, you can install Ubuntu to run the Linux installer: https://www.microsoft.com/fr-cd/p/ubuntu/9nblggh4msv6
  Running the Atlas installer in Ubuntu on Windows is experimental and you may encounter problems. Contact the Atlas team for support.

All Windows versions

- You can install PuTTY to connect to the Atlas device via SSH:
  https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html
  See the PuTTY documentation for instructions:
  https://www.chiark.greenend.org.uk/~sgtatham/putty/docs.html
- PuTTY also contains PSCP, which you can use to run the `scp` commands below:
  https://the.earth.li/~sgtatham/putty/0.73/htmldoc/Chapter5.html#pscp
- The Atlas installer will unfortunately not be able to run from your system.

Setup

Power up the flyaway kit

- Connect power supply of HP Z2 using plug adapter - a white LED near the power input indicates the power is connected - and start the unit by pressing the power button on the opposite side of the unit from the power supply input
- Connect power supply of Netgear router using voltage converter, and start the router by pressing in the button next to the power supply input on the back of the unit. Green LED(s) on the top of the router indicate the unit is running.
- Connect ethernet cable from HP Z2 to one of the router's LAN slots

Connect to Atlas

- Now that the router is running, connect to the router's offline wireless network on a wifi-enabled laptop:
  - network name (SSID) `flyaway-router` (or `flyaway-router-5G`)
  - password: `nullisland`
- Once connected to the network, navigate to http://192.168.1.2:2999/signin in your laptop's web browser and sign in with the following credentials:
  - user: `atlas-user`
  - password: `nullisland`
- You can now use the Atlas dashboard to navigate to Studio or Kepler

[If needed] Copy files from your computer to the Z2

- Ensure your laptop is connected to the Flyaway network
- On your laptop, open a terminal window
- Copy a file from your computer to the Z2 (atlas@192.168.1.2) with the `scp` command, for example:

```
scp data.geojson atlas@192.168.1.2:/tmp/data.geojson
```

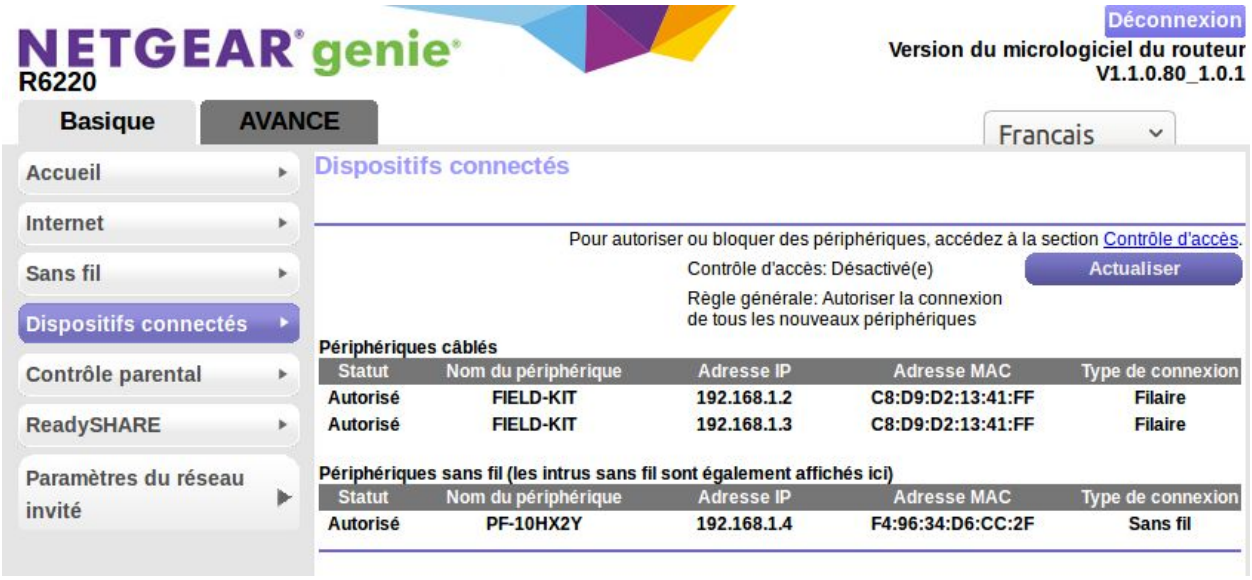
- When prompted, enter the password `nullisland`

[If needed] Connect to Z2 filesystem via SSH

- Ensure your laptop is connected to the Flyaway network
- On your laptop, open a terminal window
- Connect to the Z2's filesystem with the command: `ssh atlas@192.168.1.2`
- When prompted, enter the password `nullisland`
- You can now navigate the Z2's filesystem as you wish
- To close the connection, enter the command: `exit`

[If needed] Connect to Netgear router admin interface

- Ensure your laptop is connected to the Flyaway network
- Navigate to http://192.168.1.1/index.htm and log in with the credentials:
    - username: `admin`
    - password: `nullisland`
    - Security Questions
        - What city were you born in? *Washington DC*
        - What's your best friend's first name? *Mapbox*
- [If needed] Change the site language using the drop-down menu to the upper right



Shutdown

Safely shut down the HP Z2

- Ensure your laptop is connected to the Flyaway router's network.
- Connect via SSH to the HP Z2 (see instructions above)
- Shut down the Ubuntu system by entering the command: `sudo poweroff`
- When prompted, enter the root user password (`nullisland`)
- The SSH connection will close, and after a few minutes the white LED light on the HP Z2's power button will go out, indicating that the system has been shut down.

Power off the Netgear router

- Once the HP Z2 has been shut down, press the power button on the back of the router next to the power supply to shut down the router.
- The green LED lights on the top of the router should turn off, and the Flyaway network should no longer be visible.

Upgrade Atlas (without replacing data)

Download new Atlas Docker image

- On your internet-connected laptop, download the v1.4.0-beta.3 Atlas installer for your platform (Linux or Mac; for Windows 10 see instructions above) from atlas.mapbox.com/install, saving the `.zip` file to a directory of your choice
- In a terminal window, move into the directory where you downloaded the `.zip` file and unzip the file with the command

  ```
  unzip atlas-installer-<PLATFORM>-v1.4.0-beta.3.zip
  ```
- For the next commands you'll need a secret access token, so save the following token to your environment with the command:

  ```
  export ATLAS_TOKEN=\
  sk.eyJ1IjoiYmRkYXZpZHNvbiIsImEiOiJjazB5OGtsYTUwMG11M2xwOThvd
  zVtbmJqIn0.2AeWTlTB5Xjl_vT2HhH6FA
  ```
- [If needed] Run `./atlas-installer list --token $ATLAS_TOKEN` to see a list of which Atlas versions are available for download, and choose the version you want
- Download only the Docker files (no tilesets) for the upgraded version of Atlas with the following command, using the command:

  ```
  ./atlas-installer download ~/atlas-server-files \
  --version <VERSION> --token $ATLAS_TOKEN --docker
  ```

  for example:

  ```
  ./atlas-installer download ~/atlas-server-files \
  --version 2.6.0-beta.2 --token $ATLAS_TOKEN --docker
  ```

  Notes:
  - If the download fails/stops at any point, re-run the exact same command - the installer will discover existing files and continue the download where it left off.
  - It's possible the download will time out on large files that take >1 hour to complete, showing an error message mentioning a 403 error. If this happens, re-run the `download` command to continue the download where it left off.
- Copy the downloaded Atlas server files, along with the Linux Atlas installer zip file, to the Z2 with `scp`, for example
  - ```
    scp atlas-installer-linux-x64-v1.4.0-beta.3\
    atlas@192.168.1.2:~/
    ```
    ```