Weights & Biases aka wandb @CINECA Clusters

Weights & Biases is the machine learning platform for developers to build better models faster.

https://wandb.ai/site

Offline Mode

wandb offline mode must be used on a compute node of CINECA cluster.

The following methods can be used to enable offline mode:

- In your application initialize wandb by setting the mode option to "offline":
  ```python
  wandb.init(mode="offline")
  ```
- Set the `WANDB_HOME` environment variable to offline with one of the following methods:
  - `export WANDB_MODE=offline`
  - `os.environ['WANDB_MODE'] = 'offline'`
- Use wandb command:
  ```bash
  wandb offline
  ```

How to synchronize with wandb cloud

Use `wandb sync` command to synchronize with wandb cloud servers.

- To synchronize your metrics to cloud service
  ```bash
  wandb sync YOUR_RUN_DIRECTORY
  ```
- To synchronize all unsynced runs from local directory:
  ```bash
  wandb sync --sync-all
  ```
- To delete all synced runs from local directory:
  ```bash
  wandb sync --clean
  ```

see official docs

How to change default path for temporary configuration files

To change the default path for saving temporary configuration files, set the environment variable `WANDB_CONFIG_DIR`:

```bash
export WANDB_CONFIG_DIR=YOUR_PATH
```

see official docs