

Designing the national HPC and public cloud-based solutions for the data-driven animal behavior detection

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Discussion with surf

Progress update

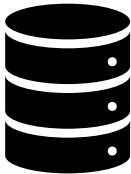
```
{
  "_id": "token_1",
  "task_type": "YOLOv5",
  "lock": 0,
  "done": 0,
  "gpu": "0",
  "CONF": 0.25,
  "WEIGHTS": "",
  "EPOCHS": 10,
  "IMG": 640,
}
```

yoloToken.txt

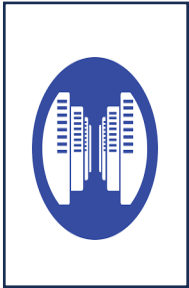
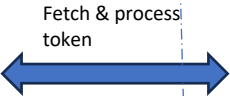
```
{
  "_id": "token_1",
  "task_type": "Synchronization",
  "lock": 0,
  "done": 0,
  "gpu": "0",
  "TestcastNumber": 12,
}
```

synchronization.txt

Users
(CV, researchers...)



CouchDB



Compute nodes



Pull and run image



HPC environment
(Admin)



Login Node

```
#!/bin/bash
.....
.....
run python pilot1.py
```

pilot_gpu.sh

```
#!/bin/bash
.....
.....
run python pilot2.py
```

pilot_cpu.sh

