

# ML Job Workflow in TACC

## WorkFlow

### Register User

1. Initiate a POST request to the Account Service server
2. Account Service add new user through Control Node

### Submit Job

1. User configuration
2. Config the tuxiv.conf
3. Upload job directory and build environment in Staging Node
4. Submit the job in Staging Node and run the job in Cluster

### Monitor Job

Obtain job information from Staging Node

### Fetch Job Output

Download log, checkpoints and tensorboard files from Staging Node

Register User

Submit Job

Monitor Job

Fetch Job Output

Create new user account

Submit ML job

Query job information

Download job log / data

## Computing Services

Tcloud Service

Account Service

Submit job to Staging Node

Insert in user DB

Slurm run job

Create user  
Add pub key

Staging Node

Control Node

Cluster

NFS  
(persistent)

