R5 Federated ML application at edge Installation Document

Introductions

FATE can be installed on Linux or Mac. Now, FATE can support

- Native installation: standalone and cluster deployments;
- KubeFATE installation:
    - Multipal parties deployment by docker-compose, which for devolopment and test purpose;
    - Cluster (multi-node) deployment by Kubernetes

Native installation:

Software environment :jdk1.8+Python3.6python virtualenvmysql5.6+

Standalone

FATE provides Standalone runtime architecture for developers. It can help developers quickly test FATE. Standalone support two types of deployment: Docker version and Manual version. Please refer to Standalone deployment guide: standalone-deploy

Cluster

FATE also provides a distributed runtime architecture for Big Data scenario. Migration from standalone to cluster requires configuration change only. No algorithm change is needed.

To deploy FATE on a cluster, please refer to cluster deployment guide: cluster-deploy.

KubeFATE installation:

Using KubeFATE, FATE can be deployed by either docker-compose or Kubernetes:

- For development or testing purposes, docker-compose is recommended. It only requires Docker enviroment. For more detail, please refer to Deployment by Docker Compose.
- For a production or a large scale deployment, Kubernetes is recommended as an underlying infrastructure to manage FATE system. For more detail, please refer to Deployment on Kubernetes.

More instructions can be found in KubeFATE.

FATE-Client Installation

FATE-client is an easy tool for interacting with FATE. We strongly recommend you install FATE-client and take its advantage to use FATE conveniently. Please refer to this document for more details on FATE-Client.