

Overview

This document guide you through the deployment process of gopher. This document assumes gofs deployment is completed. (See gofs documentation for gofs deployment instructions). Artifacts marked with * are coming from the GoFS deployment.

Steps

Environment setup.

Assume *GOFFISH_HOME environment variable is set up in the GoFS deployment step.

1. Copy gopher-server-2.0-bin.zip to GOFFISH_HOME of each data node
2. Extract gopher-server-2.0-bin.zip
3. Copy gopher-client-2.0-bin.zip to the machine which you are planning to execute the client (client machine).
4. Copy *gofs.config file which was used in GoFS deployment to the client machine.
5. Extract gopher-client-2.0-bin.zip

Install Application

1. Use CopyArtifacts.sh in gopher-client-2.0 directory to install the new application in gopher.
2. Command : CopyArtifacts.sh <JarFilePath> <jar_name> <user> <host1> <host2> ...
Example : \$./CopyArtifacts.sh
~/projects/USC/goffish/gopher/samples/vertex-count/target/vert-count-2.0.jar
vert-count-2.0.jar charith localhost

Start Servers

1. Use ListDataNodes.sh to get the path of the GoFS slices for each deployment.
2. Command : ListDataNodes.sh <gofs.config file path of gofs> Example \$
/ListDataNodes.sh ~/projects/USC/goffish-test/gofs-2.0/conf/gofs.config
3. This will give list of paths of data in each data node. (ex :
file:///localhost/home/charith/projects/USC/goffish-test/gofs-2.0/data/partition/gofs)
4. Command StartServers.sh user managerHost coordinatorHost graphId dataURI1 dataURI2 ... Example : \$./StartServers.sh charith localhost localhost 1
file:///localhost/home/charith/projects/USC/goffish-test/gofs-2.0/data/partition-1/gofs

Deploy Gopher

1. Use DeployGopher.sh to deploy gopher
2. Command : DeployGopher.sh <GoFSConfig file path> <ManagerHost>
<CoordinatorHost>

Example ./DeployGopher.sh ~/projects/USC/goffish-test/gofs-2.0/conf/gofs.config
localhost localhost

Execute Client

1. You can use GopherClient.sh to execute the application.
2. Command: GopherClient.sh <gopherConfig> <gofsConfig> <graphId> <jarFile> <clzz>
<data> [(optional)iteration]

Example from vertex count sample : \$./GopherClient.sh
~/projects/USC/goffish-test/GoFFish/gopher-client-2.0/gopher-config.xml
~/projects/USC/goffish-test/gofs-2.0/conf/gofs.config 1 vert-count-2.0.jar
edu.usc.pgroup.goffish.gopher.sample.VertCounter NILL

(If you do not need to send data, use NILL as the parameter for data)