

Topology rack awareness scripts

Topology Scripts

Topology scripts are used by hadoop to determine the rack location of nodes. This information is used by hadoop to replicate block data to redundant racks.

Here is a sample script that uses a separate data file.

Sample 1: Script with datafile

Topology Script

A sample Bash shell script:

```
HADOOP_CONF=/etc/hadoop/conf

while [ $# -gt 0 ] ; do
  nodeArg=$1
  exec< ${HADOOP_CONF}/topology.data
  result=""
  while read line ; do
    ar=( $line )
    if [ "${ar[0]}" = "$nodeArg" ] ; then
      result="${ar[1]}"
    fi
  done
  shift
  if [ -z "$result" ] ; then
    echo -n "/default/rack "
  else
    echo -n "$result "
  fi
done
```

Topology data

hadoopdata1.ec.com	/dc1/rack1
hadoopdata1	/dc1/rack1
10.1.1.1	/dc1/rack2