

This is the documentation for **Cloudera Manager 5.1.x**.
Documentation for other versions is available at [Cloudera Documentation](#).

Ports Used by Components of CDH 5

Component	Service	Qualifier	Port	Protocol	Access Requirement	Configuration	Comment
Hadoop HDFS	DataNode		50010	TCP	External	dfs.datanode. address	DataNode HTTP server port
	DataNode	Secure	1004	TCP	External	dfs.datanode. address	
	DataNode		50075	TCP	External	dfs.datanode.http. address	
	DataNode	Secure	1006	TCP	External	dfs.datanode.http. address	
	DataNode		50020	TCP	External	dfs.datanode.ipc. address	
	NameNode		8020	TCP	External	fs.default. name or fs.defaultFS	fs.default. name is deprecated (but still works)
	NameNode		50070	TCP	External	dfs.http. address or dfs.namenode. http-address	dfs.http. address is deprecated (but still works)
	NameNode	Secure	50470	TCP	External	dfs.https. address or dfs.namenode. https-address	dfs.https. address is deprecated (but still works)
	Secondary NameNode		50090	TCP	Internal	dfs.secondary. http.address or dfs.namenode. secondary. http-address	dfs.secondary. http.address is deprecated (but still works)
	Secondary NameNode	Secure	50495	TCP	Internal	dfs.secondary.	

						https.address	
	JournalNode		8485	TCP	Internal	dfs.namenode. shared.edits.dir	
	JournalNode		8480	TCP	Internal		
Hadoop MapReduce (MRv1)	JobTracker		8021	TCP	External	mapred.job. tracker	
	JobTracker		50030	TCP	External	mapred.job. tracker. http.address	
	JobTracker	Thrift Plugin	9290	TCP	Internal	jobtracker. thrift.address	Required by Hue and Cloudera Manager Activity Monitor
	TaskTracker		50060	TCP	External	mapred.task. tracker.http. address	
	TaskTracker		0	TCP	Localhost	mapred.task. tracker.report. address	Communicating with child (umbilical)
Hadoop YARN (MRv2)	ResourceManager		8032	TCP		yarn. resourcemanager. address	
	ResourceManager		8030	TCP		yarn. resourcemanager. scheduler.address	
	ResourceManager		8031	TCP		yarn. resourcemanager. resource-tracker. address	
	ResourceManager		8033	TCP		yarn. resourcemanager. admin.address	
	ResourceManager		8088	TCP		yarn. resourcemanager. webapp.address	
	NodeManager		8040	TCP		yarn. nodemanager. localizer. address	
	NodeManager		8042	TCP		yarn. nodemanager. webapp.address	

	NodeManager		8041	TCP		yarn. nodemanager. address	
	MapReduce JobHistory Server		10020	TCP		mapreduce. jobhistory. address	
	MapReduce JobHistory Server		19888	TCP		mapreduce. jobhistory. webapp.address	
HBase	Master		60000	TCP	External	hbase.master. port	IPC
	Master		60010	TCP	External	hbase.master. info.port	HTTP
	RegionServer		60020	TCP	External	hbase. regionserver. port	IPC
	RegionServer		60030	TCP	External	hbase. regionserver. info.port	HTTP
	HQuorumPeer		2181	TCP		hbase. zookeeper. property. clientPort	HBase-managed ZK mode
	HQuorumPeer		2888	TCP		hbase. zookeeper. peerport	HBase-managed ZK mode
	HQuorumPeer		3888	TCP		hbase. zookeeper. leaderport	HBase-managed ZK mode
	REST	REST Service	8080	TCP	External	hbase.rest. port	
	REST UI		8085	TCP	External		
	ThriftServer	Thrift Server	9090	TCP	External	Pass -p <port> on CLI	
	ThriftServer		9095	TCP	External		
		Avro server	9090	TCP	External	Pass --port <port> on CLI	
Hive	Metastore		9083	TCP	External		
	HiveServer2		10000	TCP	External	hive. server2. thrift.port	

Sqoop	Metastore		16000	TCP	External	sqoop. metastore. server.port	
Sqoop 2	Sqoop 2 server		12000	TCP	External		
	Sqoop 2		12001	TCP	External		Admin port
ZooKeeper	Server (with CDH 5 and/or Cloudera Manager 5)		2181	TCP	External	clientPort	Client port
	Server (with CDH 5 only)		2888	TCP	Internal	X in server.N =host:X:Y	Peer
	Server (with CDH 5 only)		3888	TCP	Internal	X in server.N =host:X:Y	Peer
	Server (with CDH 5 and Cloudera Manager 5)		3181	TCP	Internal	X in server.N =host:X:Y	Peer
	Server (with CDH 5 and Cloudera Manager 5)		4181	TCP	Internal	X in server.N =host:X:Y	Peer
	ZooKeeper FailoverController (ZKFC)		8019	TCP	Internal		Used for HA
	ZooKeeper JMX port		9010	TCP	Internal		ZooKeeper will also use another randomly selected port for RMI. In order for Cloudera Manager to monitor ZooKeeper, you must open up all ports when the connection originates from the Cloudera Manager server.
Hue	Server		8888	TCP	External		
	Beeswax Server		8002		Internal		
	Beeswax Metastore		8003		Internal		
Oozie	Oozie Server		11000	TCP	External	OOZIE_HTTP_PORT in oozie-env.sh	HTTP
	Oozie Server		11001	TCP	localhost	OOZIE_ADMIN_PORT in oozie-env.sh	Shutdown port

Spark	Default Master RPC port		7077	TCP	External		
	Default Worker RPC port		7078	TCP			
	Default Master web UI port		18080	TCP	External		
	Default Worker web UI port		18081	TCP			
HttpFS	HttpFS		14000	TCP			
	HttpFS		14001	TCP			