

How To Install Multiple Instances of Infobright on One Server

“There is time enough for everything in the course of the day, if you do but one thing at once, but there is not time enough in the year, if you will do two things at a time.” *Lord Chesterfield, in a letter to his son, c. 1740 Holt, Jr.*

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Synopsis

Multiple instances of Infobright can easily be installed on the same server as long as the data and file directories are kept separate for each instance. Since each instance of Infobright includes MySQL, it is never necessary to install MySQL separately.

Consideration should be taken to allocate sufficient memory resources to accommodate the multiple instances. This document will walk you through how to install two different instances on one server and discusses configuration issues. The example assumes an installation with the TAR distribution installer on a Unix platform.

Introduction

When installing multiple instances of Infobright, it is important to note that the data directory, cache directory, port number and socket file must all be different from one instance to the next so as not to conflict with each other. The software directory may be the same or one can use multiple locations.

If you are upgrading within the same instance, then you simply need to perform the upgrade steps within the same directory structure as detailed in the Infobright User Guide. The previous installation's databases will have already been defined and loaded, and no changes are required to directory structure, port number or socket number.

Assuming you are using the TAR installation on Linux, use the help text details for an explanation of the installation script parameters involved:

```
./install-infobright.sh --help

--datadir=infobright data folder           [--datadir=/usr/local/infobright/data]
--cachedir=infobright cache folder        [--cachedir=/usr/local/infobright/cache]
--config=mysql conf file to be created    [--config=/etc/my-ib.cnf]
--port=infobright server port            [--port=5029]
--socket=socket file to be used by this server [--socket=/tmp/mysql-ib.sock]
--user=user to be created if not exist    [--user=mysql]
--group=user group to be created if not exist [--group=mysql]
```

Methodology

The following assumes installation with the **TAR distribution installer on Unix**.

This example demonstrates how to install two instances of the same version of Infobright. For installation of different editions or versions, simply unpack the software file into two separate directories and run the installer from each of those directories. The options will be the same.

NOTE: Please see the **User Guide** for a detailed description of the installation process if you are not familiar with TAR installation, or are looking for examples of installation packages for other platforms such as **Windows** or **Solaris**.

First Instance Install

We will use the following names for instance1: data1, cache1, my-ib1.cnf, port 5029, mysql-ib1.sock.

This is the install script using the instance1 values:

```
/usr/local/infobright/install-infobright.sh --datadir=/usr/local/infobright/data1 --  
cachedir=/usr/local/infobright/cache1 --config=/etc/my-ib1.cnf --port=5029 --  
socket=/tmp/mysql-ib1.sock --user=mysql --group=mysql
```

Before installing any subsequent instances, it is recommended that you rename the default start/stop and command line client scripts, as these will be overwritten with the installation defaults of the next instance. For example rename as:

```
[root@localhost infobright]$ mv /etc/init.d/mysql-ib /etc/init.d/mysql-ib1  
[root@localhost infobright]$ mv /usr/bin/mysql-ib /usr/bin/mysql-ib1
```

Second Instance Install

We will use the following names for instance2: data2, cache2, my-ib2.cnf, port 5030, mysql-ib2.sock. Note that all directory names as well as the port number and socket file name have been changed.

This is the install script using the instance2 values:

```
/usr/local/infobright/install-infobright.sh --datadir=/usr/local/infobright/data2 --  
cachedir=/usr/local/infobright/cache2 --config=/etc/my-ib2.cnf --port=5030 --  
socket=/tmp/mysql-ib2.sock --user=mysql --group=mysql
```

Again, renaming the default start/stop nd command line client scripts is important:

```
[root@localhost infobright]$ mv /etc/init.d/mysqld-ib /etc/init.d/mysqld-ib2  
[root@localhost infobright]$ mv /usr/bin/mysql-ib /usr/bin/mysql-ib2
```

Running the Infobright Instances

Now that the start/stop scripts have been renamed, simply start the instance of choice using the following:

```
[root@localhost infobright]$ /etc/init.d/mysqld-ib1 start  
[root@localhost infobright]$ /etc/init.d/mysqld-ib2 start
```

Configuration

The Infobright configuration file is called brighthouse.ini and is located in the data subdirectory within your Infobright installation directory. The configuration file is a text file containing the Infobright configuration parameters. See the Infobright installation package for a sample brighthouse.ini file.

In our examples, the configuration files for the 2 instances will be located in data1/brighthouse.ini and data2/brighthouse.ini respectively.

Sufficient memory allocation should take into account whether both (or several) instances will be running at the same time. Our recommendation for an individual instance of Infobright is generally 2 GB per CPU core. There is very little configuration required, however memory can be allocated to different functions such as data loading, compression and main server process.

NOTE: For detailed recommendations regarding **CPU** and **memory** allocation as well as **tuning parameters**, please refer to the **User Guide**.

Summary

You can install as many instances of Infobright on a single server as you wish, provided you have allocated sufficient resources depending on usage and data storage requirements.

Each instance is a stand-alone database that includes a copy of MySQL. The instances are independent of each other and thus can be the same or different versions of Infobright.

Also, the tables loaded within each instance are local to that instance only and it is necessary to keep the data and file directories separate for each instance. Querying across different instances of Infobright is not inherently supported at this time, and would require a 3rd party federated database system tool.