

LZO Compression Library

Overview

Name	LZO Compression Library
Description	This library allows you to use LZO compression as compared to the inflate/deflate compression used by default by dynaTrace. LZO requires less CPU but the resulting amount of data is higher.
dynaTrace Version	>= 5.5
dynaTrace Components	dynaTrace Server, dynaTrace Client, dynaTrace Collector
Version	1.0.0
Support	Supported
Download	Choose the Library to download according to your OS from the list below - or Download the Source Code for the dynaTrace LZO Library Wrapper on GitHub

AIX ppc32:	aix-ppc32.tar
AIX ppc64:	aix-ppc64.tar
HP-UX IA64 32:	hpux-32.ia64.tar
HP-UX IA64 64:	hpux-64.ia64.tar
HP-UX PA-RISC 2.0 32:	hpux-32.pa-risc.tar
HP-UX PA-RISC 2.0 64:	hpux-64.pa-risc.tar
Linux IA64:	linux.ia64.tar
Linux x64:	linux.x64.tar
Linux x86:	linux.x86.tar
Solaris SPARC-32:	solaris.sparc32.tar
Solaris SPARC-64:	solaris.sparc64.tar
Solaris x64:	solaris.x64.tar
Solaris x86:	solaris.x86.tar
Windows x86:	windowsx86.zip
Windows x64:	windowsx64.zip
zLinux s390:	zlinux-s390.tar
zLinux s390x:	zlinux-s390x.tar
z/OS s390:	zOS-s390.tar
z/OS s390x:	zOS-s390x.tar

Description

LZO compression is a tradeoff between default inflate/deflate and uncompressed communication regarding CPU utilization and compression-rate.

The core LZO compression algorithm has been developed by Markus Franz Xavier Johannes Oberhumer, see <http://www.oberhumer.com/opensource/lzo/>.



LZO and miniLZO are Copyright (C) 1996-2008 Markus Franz Xavier Johannes Oberhumer.

Installation

1. Choose and download the package from the list above according to your OS.
 - The architecture (64bit/32bit) must match the VM of the installed Dynatrace component!
2. Copy the shared library to the <dynaTrace_home>/tools/lib directory.



Please note that both sides of communication need the corresponding library to use LZO compression. If the LZO library is only installed on one peer, the default inflate/deflate compression facilities will be used. To check if LZO compression is enabled, watch out for log lines similar to "INFO **PassiveConnector** connection to HOSTNAME:3466:Inbound:Plain:LZO has been accepted" in the corresponding logs.

Configuration

How to configure LZO compression between dynaTrace Server and dynaTrace Client

Shutdown the Server and Client and copy the shared library to the <dynaTrace_home>\tools\lib directory on server- as well as on client-side. Start the Server and connect the Client. Beginning with Dynatrace 3.5.1 compression is enabled automatically. For older versions you have to enable compression manually. To do so, open the "Server Preferences" dialog in the Client and choose the menu item "Connectivity". Choose the checkbox "enable data compression" to enable compression for communication between Server and Client.

dynaTrace Server Preferences

Manage dynaTrace Server
Configure Connectivity for allen

Connectivity

dynaTrace Server Name: allen
dynaTrace Server Address: localhost
dynaTrace Server Port: 2020
 Use SSL to connect to this server
Disconnect Connected

Log In

User Id: admin
Password:
Change...
 Remember password

Proxy Configuration

Use Proxy
Proxy Server Address:
Proxy Port: 8080
 Use Proxy Authentication
Proxy Username:
Proxy Password:

Options

Connect automatically
 Synchronize Plugins with this server
 Enable data compression (requires reconnecting client)

Hint

If data compression should be enabled for the connection to this server.

Ok Cancel Apply

Figure: Enable data compression between Server and Client

Disconnect and reconnect the Client to finish the LZO compression installation.

How to configure LZO compression between dynaTrace Server and dynaTrace Collector

Shutdown the Server and Collector and copy the shared library to the `<dynaTrace_home>\tools\lib` directory on server- as well as on collector-side. The dynaTrace Collector's setup is stored in `collector.config.xml` located in the `./conf/` directory of the

Dynatrace Collector

installation.



In case you are using Collector instances the `collector.config.xml` can be found in `<dynaTrace_home>\collector\instances\yourInstance\conf`.

The default `collector.config.xml` looks as follows having the `compress` attribute set to `true`:

```
<?xml version="1.0" encoding="UTF-8"?>
<dynatrace version="3.0.1.1598">
  <collectorconfig memento.version="3.0.1.1598" proxypassword=""
agentport="9998" useproxy="false" authstring="" serverport="6698"
proxyport="8080" embedded="false" compress="true" usssl="false"
      proxyhost="" useproxyauthentication="false"
proxyusername="" name="dynaTrace Collector" watchdogtimeout="10"
agentaddress="" serveraddress="localhost">
  <loggingconfig append="true" console="INFO" level="INFO" maxfiles="5"
path="../log/collector/dynaTrace Collector" html="false"
maxbytes="10485760" />
  <buffers serverbuffercount="10" agentbuffersize="32768"
serverbuffersize="524288" />
  <plugins>
    <loggingconfig append="true" console="WARNING" level="INFO"
maxfiles="5" path="../log/collector/dynaTrace Collector" html="false"
maxbytes="10485760" />
  </plugins>
</collectorconfig>
</dynatrace>
```

The setup of LZO data compression between the Server and the Collector is finished.

Contribution

Feel free to contribute any changes on [Github](#)