GroundWork Monitor Community Edition 5.2.1 Install Guide

The purpose of this document is to outline the prerequisites and the download and installation instructions for GroundWork Monitor Community Edition 5.2.1. For more information, please visit the GroundWork Community Support site at: http://www.groundworkopensource.com/community/

NOTE: A backup is recommended before upgrading GroundWork Monitor. Please see *Appendix A – Backup* in this document before you upgrade GroundWork Monitor.

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SECTION 1 - PREREQUISITES

Current Supported Operating Systems

- Red Hat Enterprise Linux WS* and ES 4.0 32 bit and 64 bit
- Red Hat Enterprise Linux Server 5.0 32 bit and 64 bit
- SuSE Linux Enterprise Server 9.x 32 bit**
- SuSE Linux Enterprise Server 10 32 bit and 64 bit
- CentOS 4.x 32 bit
- CentOS 5.0 32 bit and 64 bit

Note: *RHEL WS not recommended for production systems. **SuSE Linux Enterprise Server 9.x is not recommended as 5.2.0 will be the last version to support this distribution version. SuSE Linux Enterprise Server 10 is recommended for new deployments.

Software Prerequisites

- MySQL Community Edition 5.0.51a-0
- Java JDK version 1.5 release 6 or the latest released version of Java JDK version 1.5
- perl-DBI 1.40 or later (may already be installed)

Browser Recommendations

- Firefox 2.x
- Internet Explorer 6.x and 7.x

Hardware Recommendations

Dedicated Server Recommended

- 4 GB RAM or more
- 2 CPU, 3.2 GHz P4 or better
- 160 GB disk

SECTION 2 – AUTOMATED INSTALLER - WHAT TO EXPECT

The steps below describe what to expect after running the new install script. The Installer prompts you if there are any ambiguities of what it should do and offers you an option whenever possible. You can refer to the file:../groundwork_installer/conf/installer.properties for more information about the actions taken during installation

1. **Environment** - Checks that the hardware configuration meets the minimum requirements.
2. **Prerequisites** - Checks that prerequisite software packages are installed.
3. **Configuration** - Checks that your operating system and prerequisite software packages are properly configured to work with GroundWork Monitor.
4. **Clean Install**, **Upgrade**, **Uninstall** - Determines if GroundWork Monitor has been previously installed. Based on this the Installer can perform a clean install, uninstall, or an upgrade from a previous version. **Note:** The Installer will only support upgrades from versions 5.1.x and later.
5. **Verify** - Performs steps to verify that an installation has succeeded and is running properly.

SECTION 3 – DOWNLOAD AND INSTALL PROCESS

Community Edition Download and Installation – 5 Step Process

The steps for downloading and installing GroundWork Monitor Community Edition include the following:

1. Review Distribution Notes
2. Install the Prerequisites (Perl, Java, and MySQL)
3. Download the GroundWork Monitor RPMs
4. Install GroundWork Monitor
5. Verify Installation

Following are the details for each step.

STEP 1 – REVIEW DISTRIBUTION NOTES

Download and review all distribution notes including Install Guide, Readme, and Release Notes at http://www.groundworkopensource.com/community/downloads/rpm-download.html under *Installing GroundWork Monitor Community Edition*.

STEP 2 – INSTALL THE PREREQUISITES (PERL, JAVA, AND MYSQL)

Perl

- May already be installed on some systems. You can check with the following command:
  rpm -qa | grep perl-DBI
- Download perl-DBI-1.40-5.i386.rpm at http://www.groundworkopensource.com/community/downloads
- After downloading, enter the following command to install:
  rpm -ivh perl-DBI-1.40-5.i386.rpm

Java

1. Download Java JDK 5.0 Update 6 (jdk-1_5_0_06-linux-i586-rpm.bin.tar.gz) at http://www.groundworkopensource.com/community/downloads
2. After downloading, perform the following check for other Java versions:
3. Remove the version of Java shipped with the OS
   rpm –qa | grep -i java
4. Check for and remove any OS installed Java RPMs
   For example the Red Hat 5 default install: glib-java-0.2.6-3.fc6
5. Perform the following steps to install the Sun Java JDK
   - Un-tar package with the command:

tar xvfz jdk-1_5_0_06-linux-i586-rpm.bin.tar.gz

- Change the permissions to execute:

  chmod +x jdk-1_5_0_06-linux-i586-rpm.bin

- Execute the binary file to extract/install the RPM file with the command:

  ./jdk-1_5_0_06-linux-i586-rpm.bin

- You will be prompted to accept the license.
- All files will be put into:

  /usr/java

MySQL

- Download MySQL Community Edition at http://dev.mysql.com/downloads/mysql/5.0.html#downloads

  Download the rpms for Server, Client, Shared libraries, and shared compatibility libraries

  MySQL-server-community-5.0.51a-0.rhel5.i386.rpm

  MySQL-client-community-5.0.51a-0.sles9.i586.rpm

  MySQL-shared-community-5.0.51a-0.sles9.i586.rpm

  MySQL-shared-compat-5.0.51a-0.sles9.i586.rpm

- After downloading, enter the following command to install all of the MySQL files:

  rpm -ivh MySQL*

  (Note: It is recommended that you set a password for the MySQL root user)

- For upgrading MySQL see: http://dev.mysql.com/doc/refman/5.0/en/upgrade.html

Network Configuration

MySQL uses the localhost entry in /etc/hosts. Make sure that the localhost entry looks like the example below. Also, make sure that localhost is first after the IP address followed by localhost.localdomain. Replace 192.168.2.100 with the IP address of the system, and groundworkserver with the real Host name. Example: groundworkserver.mycompany.com is the fully qualified domain name where the GroundWork Monitor server is installed. Also, make sure TCP port 3306 is not blocked by your firewall rules. This port is for communication to the MySQL server.

127.0.0.1	localhost	localhost.localdomain
192.168.2.100	groundworkserver	groundworkserver.mycompany.com

STEP 3 – DOWNLOAD THE GROUNDWORK MONITOR RPMS

- Select the appropriate tar file to download at http://www.groundworkopensource.com/community/downloads/rpm-download.html

STEP 4 – INSTALL GROUNDWORK MONITOR

Follow the steps below to un-tar the downloaded file and run the automated installer.

Note: A backup is recommended before upgrading GroundWork Monitor Community Edition. Please refer to STEP 1 to view the Back Up procedures. **Note:** The Installer will only support upgrades from versions 5.1.x and later.

1. Login as root user.
2. Un-tar package with the command: tar -xzvf groundwork-pro-*.tar.gz
3. Change the directory to groundwork: cd groundwork-installer
4. Start the Installer: ./run_install.sh

STEP 5 – VERIFY INSTALLATION

After completing the installation, launch GroundWork Monitor and refer to the Bookshelf application:

- Go to the URL: **http://<hostname>/** and login - Username: **admin** Password: **admin**
- Select the Bookshelf link in the upper right corner and review the document *Verifying and Completing Installation*.

APPENDIX A - BACK UP

The purpose of this appendix is to outline the recommended back up procedures to be completed before upgrading to GroundWork Monitor 5.2.1.

Custom Changes

It is recommended that a complete backup of /usr/local/groundwork be taken before upgrading. If this is not possible the following should be considered the bare minimum set of files to be preserved.

- Plugins: /usr/local/groundwork/nagios/libexec
- CGI graphs: /usr/local/groundwork/apache2/cgi-bin/graphs
- Eventhandlers: /usr/local/groundwork/nagios/eventhandlers
- Custom syslog filters: syslog.conf, syslog-ng.conf
- Logrotate: logrotate.conf, any changes under /etc/logrotate.d
- Foundation configuration: foundation.properties
- NSCA configuration: nsca.cfg
- Distributed deployment configuration: MonarchDeploy.pm
- The contents of the 'nagios' user home directory
- The contents of the 'nobody' user home directory (Note: 5.1.x installations only)
- The last configuration file: /usr/local/groundwork/nagios/etc/config-last.log
- All modified apache configuration files
- The contents of /usr/local/groundwork/etc
- The contents of /usr/local/groundwork/backup

RRD Files and Current Nagios Configuration

Back up existing RRD files and your current Nagios configuration. This will create three TAR files in the current directory.

- tar cfz GWMON-xxx-rrd.tar.gz /usr/local/groundwork/rrd
- tar cfz GWMON-xxx-nagios.tar.gz /usr/local/groundwork/nagios/etc
- tar cfz GWMON-xxx-users.tar.gz /usr/local/groundwork/users

MySQL Databases

GroundWork recommends that all MySQL databases be backed up before upgrading. The upgrade procedure will migrate the databases to the latest version of GroundWork Monitor. Create a back up directory (e.g. **/usr/local/backup-gwmon/**) and enter the following commands to create the back ups:

- Monarch (Configuration)

  mysqldump -uroot monarch > /usr/local/backup-gwmon/monarch.sql
- Guava (Framework)

  mysqldump -uroot guava > /usr/local/backup-gwmon/guava.sql
- Dashboards (Guava Dashboard Config)

  mysqldump -uroot dashboard > /usr/local/backup-gwmon/dashboard.sql
- Foundation (Monitor Data)

  mysqldump -uroot GWCollageDB > /usr/local/backup-gwmon/GWCollageDB.sql

GroundWork Configuration Files

- Monarch

  Back up the following files and folders before removing GroundWork Monitor and restore after the 5.1.x installation.

  tar cfz GWMON-xxx-monarchbackup.tar.gz /usr/local/groundwork/monarch/backup

  tar cfz GWMON-xxx-performance_views.tar.gz /usr/local/groundwork/performance/performance_views
- If you have done custom work to these files back up the following:

  tar cfz GWMON-xxx-monarchcallout.tar.gz /usr/local/groundwork/monarch/lib/MonarchCallOut.pm

  tar cfz GWMON-xxx-monarchexternals.tar.gz /usr/local/groundwork/monarch/lib/MonarchExternals.pm

- If you have configured Apache for secure SSL authentication any HTTPS certificates need to be preserved (the directory of the HTTPS certificates may differ from the example below):

  tar cfz ssl-keys.tar.gz /usr/local/groundwork/apache2/conf/ssl.key

- Backup data collected by syslog-ng

  tar cfz GWMON-xxx-syslog-ng-data.tar.gz /usr/local/groundwork/var/log/syslog-ng