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Quick Installation Guide

CereusReporting - Express Edition

Version 2.90

1 Introduction

1.1 About CereusReporting

CereusReporting is a plugin designed to enhance the reporting functionality of the Cacti Network Monitoring solution. CereusReporting adds PDF and HTML report generation as well as email and report scheduling functionality of Cacti.

CereusReporting comes in 2 different editions: The Express Edition with limited functionality but can be enhanced with unlocking additional modules and the Corporate Edition with support for DSStats, Scheduling, Availability reports and other features.

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2 Installation

2.1 System Requirements

- Cacti has been installed using the cacti autoinstall script (http://forums.cacti.net/viewtopic.php?t=38633)
- DSStats Plugin *only needed for DSStats addon*
- memory_limit = 32M *php.ini - 64M is recommended*
- max_execution_time = 60 *php.ini - 120 is recommended*
- error_log = syslog *php.ini - for troubleshooting purposes*
- allow_url_fopen = on *php.ini - required for nmidSmokeping support*

2.2 Additional Plugins

There are several addons available which provide enhanced functionality to CereusReporting.

2.2.1 mPDF Report Engine

The mPDF Report Engine can be installed additionally to the already included FPDF engine. mPDF provides more features than the FPDF engine, but provided less performance.

2.2.2 DSStats Reports

The DSStats Reports provide some basic Top 10 like reports in addition to the existing RRD Graphics. There are some reports included and others can be added by request.

2.2.3 nmidSmokeping Support

When using the nmidSmokeping plugin, smokeping reports can be added to the PDF Reports using the nmidSmokeping support files.

2.3 Download

Additional Plugins (optional):

- http://blog.network-outsourcing.de/wp-content/uploads/CereusReportingFiles/getSmokePingPath_linux.tgz
- http://blog.network-outsourcing.de/wp-content/uploads/CereusReportingFiles/getSmokePingPath_windows.zip

2.4 Setup for Centos 6 + cacti 0.8.8a

1 Please note: The CereusReporting plugin will not have all functionality enabled on the Express Edition. Scheduling, Archiving and other features will not work
2 For Cacti installations with less than 200 active data sources, the full functionality is enabled until the number increases above 200.

Request a trial license for the Corporate Edition:

Request a trial for the Corporate Professional/Business Edition

2.4.1 Installation - Centos 6 - 32bit

Main plugin installation:

```
cd /var/www/cacti/plugins/
wget 'https://www.urban-software.com/?ddownload=2421' -O CereusReporting_Standard_v2.90.00.zip
unzip CereusReporting_Standard_v2.90.00.zip
rm CereusReporting_Standard_v2.90.00.zip
chown -R cacti.www-data CereusReporting/
cd /var/www/cacti/plugins/CereusReporting
wget https://www.urban-software.com/wp-content/uploads/parallelGraphRetriever-linux-32bit.zip
unzip parallelGraphRetriever-linux-32bit.zip
chmod +x parallelGraphRetriever
rm parallelGraphRetriever-linux-32bit.zip
```

Installation of additional Reporting Engine with Unicode support:

```
cd /var/www/cacti/plugins/CereusReporting/ReportEngines
wget 'https://www.urban-software.com/?ddownload=2423' -O mpdf_ReportEngine_54.tgz
tar -xzvf mpdf_ReportEngine_54.tgz
chown -R usercacti.www-data mpdf
chmod 775 mpdf/tmp
rm mpdf_ReportEngine_54.tgz
```

Installation of the IonCube loader:

```
cd /tmp
wget http://downloads2.ioncube.com/loader_downloads/ioncube_loaders_lin_x86.tar.gz
tar -xzvf ioncube_loaders_lin_x86.tar.gz
cp ioncube/ioncube_loader_lin_5.3.so /usr/lib/php/modules/
echo "zend_extension=/usr/lib/php/modules/ioncube_loader_lin_5.3.so" > /etc/php.d/ioncube.ini
rm -rf /tmp/ioncube
rm /tmp/ioncube_loaders_lin_x86.tar.gz
```

Installation of the ChartDirector PHP module

```
cd /tmp
wget http://download2.advsofteng.com/chartdir_php_linux.tar.gz
tar -xzvf chartdir_php_linux.tar.gz
cd ChartDirector/lib/
cp -R fonts/ /usr/lib/php/modules/
cp phpchartdir530.dll /usr/lib/php/modules/
cp libchartdir.so /usr/lib/php/modules/
echo "extension=phpchartdir530.dll" > /etc/php.d/chartdirector.ini
cd /tmp
rm -rf /tmp/ChartDirector/
rm /tmp/chartdir_php_linux.tar.gz
```

2.4.2 Installation - Centos 6 - 64bit

Main plugin installation:

```
cd /var/www/cacti/plugins/
wget 'https://www.urban-software.com/?ddownload=2421' -O CereusReporting_Standard_v2.90.00.zip
unzip CereusReporting_Standard_v2.90.00.zip
rm CereusReporting_Standard_v2.90.00.zip
chown -R usercacti.www-data CereusReporting/
cd /var/www/cacti/plugins/CereusReporting
wget https://www.urban-software.com/wp-content/uploads/parallelGraphRetriever-linux-64bit.zip
unzip parallelGraphRetriever-linux-64bit.zip
chmod +x parallelGraphRetriever
rm parallelGraphRetriever-linux-64bit.zip
```

Installation of additional Reporting Engine with Unicode support:

```
cd /var/www/cacti/plugins/CereusReporting/ReportEngines
wget 'https://www.urban-software.com/?ddownload=2423' -O mpdf_ReportEngine_54.tgz
tar -xzvf mpdf_ReportEngine_54.tgz
chown -R usercacti.www-data mpdf
chmod 775 mpdf/tmp
rm mpdf_ReportEngine_54.tgz
```

Installation of the IonCube loader:

```
cd /tmp
wget http://downloads2.ioncube.com/loader_downloads/ioncube_loaders_lin_x86-64.tar.gz
tar -xzvf ioncube_loaders_lin_x86-64.tar.gz
cp ioncube/ioncube_loader_lin_5.3.so /usr/lib64/php/modules
echo "zend_extension=/usr/lib64/php/modules/ioncube_loader_lin_5.3.so" > /etc/php.d/ioncube.ini
rm -rf /tmp/ioncube
rm /tmp/ioncube_loaders_lin_x86-64.tar.gz
```

Installation of the ChartDirector PHP module

```
cd /tmp
wget http://download2.advsofteng.com/chartdir_php_linux_64.tar.gz
tar -xzvf chartdir_php_linux_64.tar.gz
cd ChartDirector/lib/
cp -R fonts/ /usr/lib64/php/modules
cp phpchartdir530.dll /usr/lib64/php/modules
cp libchartdir.so /usr/lib64/php/modules
echo "extension=phpchartdir530.dll" > /etc/php.d/chartdirector.ini
cd /tmp
rm -rf /tmp/ChartDirector/
rm /tmp/chartdir_php_linux_64.tar.gz
```

2.4.3 Protecting the license file:

InThe license file should be protected for being downloaded by a remote user. This can be done using a .htaccess file, or directly in the httpd.conf file. The following entries need to be placed in there:

```
# File: /etc/httpd/conf.d/ioncube.conf
#
# The following lines prevent IonCube license files from being
# downloaded by Web clients.
#
<Files ~ "\.lic$">
    Order allow,deny
    Deny from all
</Files>
```

Reload Apache:

```
1    /etc/init.d/httpd reload
```

2.4.4 Setup the CronJob

It is recommended to use a cronjob instead of the poller based report generation. The following is going to setup a cronjob running once every minute.

As root, run the following command all in one line:

```
1    echo '*/1 * * * * cacti /usr/bin/php /var/www/cacti/plugins/CereusReporting/cron_pdf_scheduler.php >
     /dev/null 2>&1' >> /etc/cron.d/reportScheduler
```

2.5 Setup / Configuration

The following steps will guide you through the setup and configuration procedures for the CereusReporting Corporate and Express Edition.

Step 1: Logon to your cacti web-interface as an administrator

Step 2: Go to the “Plugin Management” page:

Step 3: Click on the “Install” link for the CereusReporting plugin

Step 4: Click on the “Enable” link for the CereusReporting plugin

Step 5: Click on the “Install” link for the settings plugin

Step 6: Click on the “Enable” link for the settings plugin

This will install and enable the CereusReporting Corporate and/or Express Edition for your cacti installation.

Now go to the “User Management” page and select your admin user. You can now set the following options for the CereusReporting plugin. Not all functionality will be available for the Express Edition:

- Plugin -> CereusReporting - Define PDF Reports
- Plugin -> CereusReporting - Generate PDF Reports
- Plugin -> CereusReporting - Manage Availability Data
- Plugin -> CereusReporting - Manage Zenoss Reports
- Plugin -> CereusReporting - View Archived Reports

- Plugin -> CereusReporting - View Availability Charts

Select all options as shown in the screenshot in order to test the installation. After saving these settings, there should be a new menu showing up in the admin console named “NMID” with the following items:

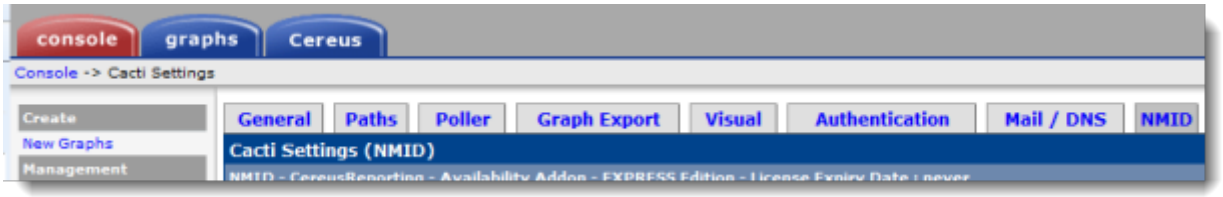
- Manage Reports
- Manage Backups
- Manage Archive
- Manage Report Schedule
- Manage Availability

You should go to the “Debug Info” and check if all modules are installed and all tables and hooks have been registered correctly

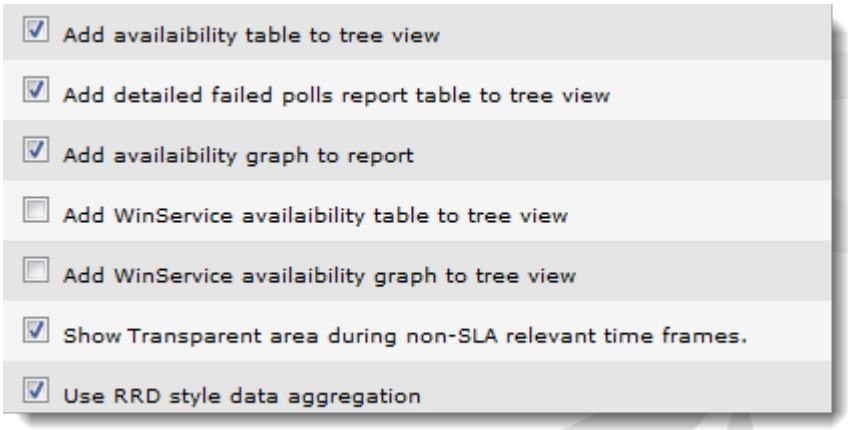
2.5.1 Basic Configuration

Now go to:

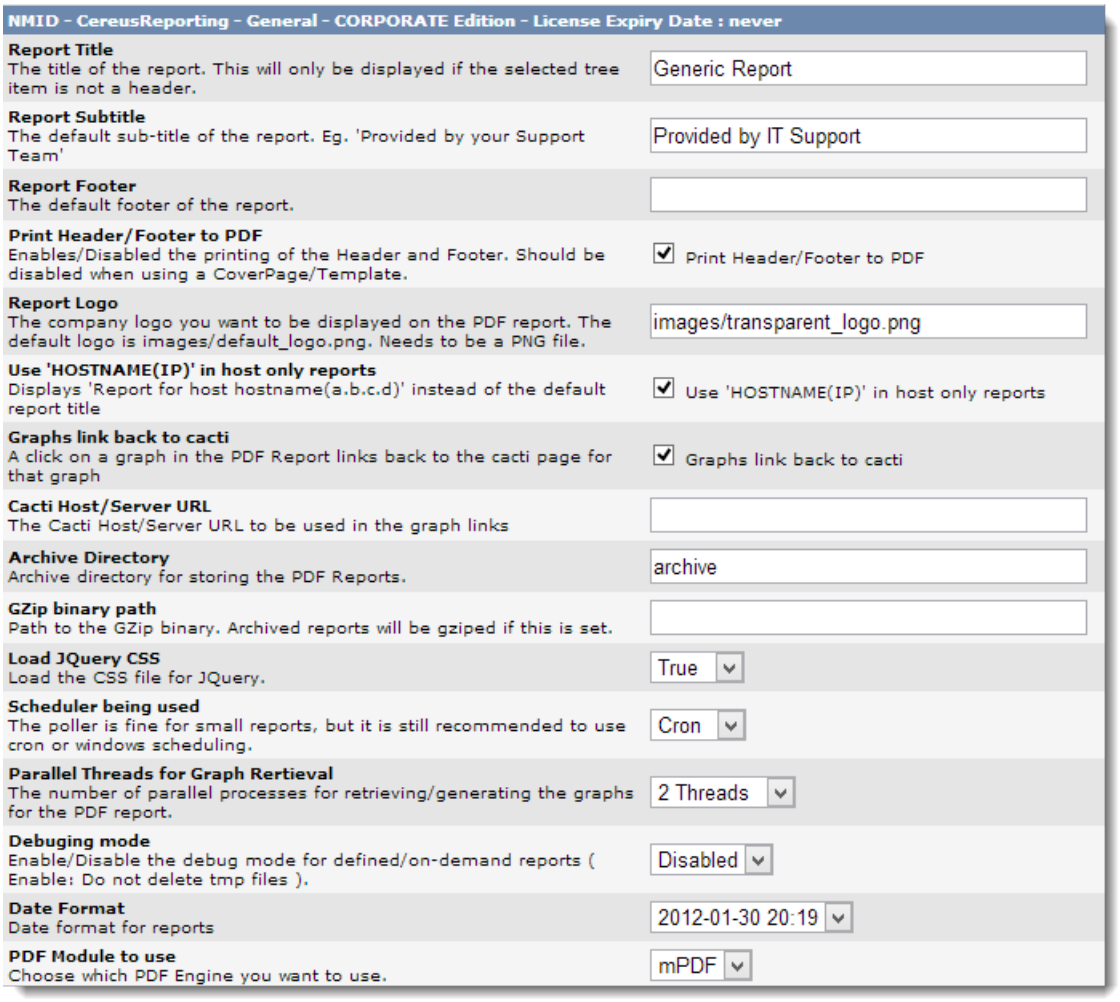
Console -> Settings -> NMID



In the Availability section, enable the following check boxes:



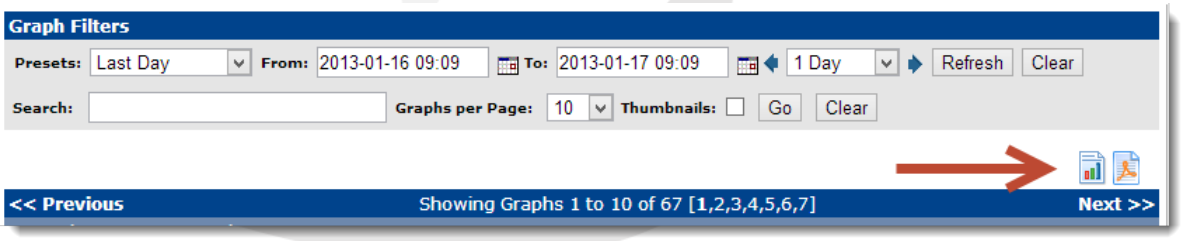
At the end of that page use the following settings:



The Installation of the CereusReporting Corporate and Express Edition plugin is now complete.

2.6 Initial Test

Go to the Graphs tab. You should see a new section for your graphs (in Tree View / Dual Pane mode only):



Go to any host and click on the little Icon to the right. You should now be presented with a PDF file containing some graphs.

3 Support

3.1 Email Support

```
Please use the following email addresses

Support:                    https://urbansoftware.zendesk.com
Sales Inquiries:            requests@urban-software.de

```

3.2 Community / Forum support

Please use the topic in the Cacti community forum for community support.

```
http://forums.cacti.net/viewtopic.php?t=30192
```

3.3 FAQ

```
n/a
```

3.4 Phone Support

Phone support is available only for valid support contracts.

3.5 Mailing List

Please join the nmid-plugins mailing list for latest news and community support:

```
n/a
```