Quick Installation Guide

CereusReporting - Corporate Edition

Version 1.80.40

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://redmine.nmid-plugins.de/attachments/download/23/getSmokePingPath_linux.tgz
- http://redmine.nmid-plugins.de/attachments/download/22/getSmokePingPath_windows.zip

2.4 Setup for Ubuntu 11.10 64bit+ cacti 0.8.7g + PIA 2.9

1 Please note: The CereusReporting plugin will have all functionality enabled on the Express Edition.

Request a trial license for the Corporate Edition:

[Request a trial for the Corporate Single Server Edition](#)

2.4.1 Installation

Main plugin installation:

```
1    cd /var/www/cacti/plugins/
2    wget http://redmine.nmid-
     plugins.de/attachments/download/326/CereusReporting_v1.80.40_ionCube_full.tgz
3    tar -xzvf CereusReporting_v1.80.40_ionCube_full.tgz
4    rm CereusReporting_v1.80.40_ionCube_full.tgz
5    chown -R usercacti.www-data nmidCreatePDF/
6    cd /var/www/cacti/plugins/nmidCreatePDF
7    wget http://redmine.nmid-
     plugins.de/attachments/download/306/parallelGraphRetriever_1.70_linux64bit.zip
8    unzip parallelGraphRetriever_1.70_linux64bit.zip
9    chmod +x parallelGraphRetriever
10   rm parallelGraphRetriever_1.70_linux64bit.zip
```

Installation of additional Reporting Engine with Unicode support:

```
1    cd /var/www/cacti/plugins/nmidCreatePDF/ReportEngines
2    wget http://redmine.nmid-plugins.de/attachments/download/235/mpdf_ReportEngine_unicode_45.tgz
3    tar -xzvf mpdf_ReportEngine_unicode_45.tgz
4    chown -R usercacti.www-data mpdf
5    chmod 775 mpdf/tmp
6    rm mpdf_ReportEngine_unicode_45.tgz
```

Installation of the IonCube loader:

```
1    cd /tmp
2    wget http://downloads2.ioncube.com/loader_downloads/ioncube_loaders_lin_x86-64.tar.gz
3    tar -xzvf ioncube_loaders_lin_x86-64.tar.gz
4    cp ioncube/ioncube_loader_lin_5.3.so /usr/lib/php5/20090626
5    echo "zend_extension=/usr/lib/php5/20090626/ioncube_loader_lin_5.3.so" >
     /etc/php5/conf.d/ioncube.ini
6    rm -rf /tmp/ioncube
7    rm /tmp/ioncube_loaders_lin_x86-64.tar.gz
```

Installation of the ChartDirector PHP module

```
1    wget http://download2.advsofteng.com/chartdir_php_linux_64.tar.gz
2    tar -xzvf chartdir_php_linux_64.tar.gz
3    cd ChartDirector/lib/
4    cp -R fonts/ /usr/lib/php5/20090626
5    cp phpchartdir530.dll /usr/lib/php5/20090626
6    cp libchartdir.so /usr/lib/php5/20090626
7    echo "extension=phpchartdir530.dll" > /etc/php5/conf.d/chartdirector.ini
8    cd /tmp
9    rm -rf /tmp/ChartDirector/
```

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:

```
1   # File: /etc/apache2/conf.d/ioncube.conf
2   #
3   # The following lines prevent IonCube license files from being
4   # downloaded by Web clients.
5   #
6   <Files ~ "\.lic$">
7       Order allow,deny
8       Deny from all
9   </Files>
```

Reload Apache:

```
1   /etc/init.d/apache2 reload
```

2.4.2 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/nmidCreatePDF/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 nmidCreatePDF plugin

Step 4: Click on the "Enable" link for the nmidCreatePDF 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:

- NMID - Define PDF Reports
- NMID - Generate PDF Reports
- NMID - Manage Availability Data
- NMID - View Archived Reports
- NMID - 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
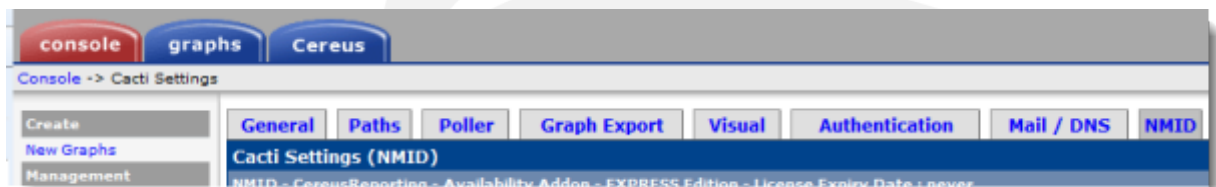- Manage Archive
- Manage Report Schedule
- Manage Availability

☞ 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:

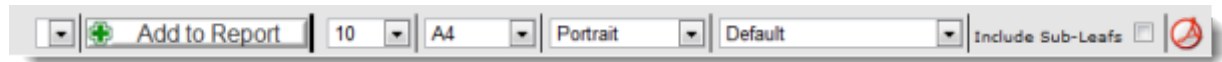The Installation of the CereusReporting Corporate and Express Edition plugin is now complete.

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
1
    Support:                http://urbansoftware.kayako.com

    Sales Inquiries:        requests@nmid-plugins.de
6
```

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
```