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Terracotta New Relic Plug-In

Installation Instructions

Version 2.0.0

Version 3.0

**Insert Title**

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# SUMMARY

This document describes the steps for installing and running the Terracotta plug-in for New Relic. The plug-in makes use of New Relic’s v1.0 RESTful metric publishing API (available at <https://platform-api.newrelic.com/platform/v1/metrics>) to push metrics from a running Terracotta Server Array (TSA).

The plug-in obtains metrics from the Terracotta Management Console’s (TMC) RESTful API. Note that this reflects a change from the 1.x versions of this plug-in, which obtained its metrics from JMX instead.

# PREREQUISITES

* Have Terracotta New Relic plug-in release archive (tc-nr-plugin-2.0.0.tar.gz)
* Java Run-time Environment 1.6+ is installed
* $JAVA\_HOME is defined
* Terracotta 4.1.3 is installed
* Can connect to the TSA’s TMC
* OS user ‘terracotta’ exists
* OS user used for installation has sudo privileges
* Keystore / Truststore exists for TMC
* NewRelic user account license key

# Installation

## Switch to the terracotta user

* sudo su terracotta

## Copy release archive to $TC\_HOME, then navigate there

* cp tc-nr-plugin-2.0.0.tar.gz /opt/terracotta
* cd /opt/terracotta

## Extract release archive, then navigate there

* mkdir tc-nr-plugin-2.0.0 && tar xfz tc-nr-plugin-2.0.0.tar.gz -C tc-nr-plugin-2.0.0
* cd tc-nr-plugin-2.0.0

## Make the shell scripts executable

* chmod +x \*.sh

## Open the TC NR Plug-in configuration file at /opt/terracotta/tc-nr-plugin-2.0.0/conf/application.properties in a text editor and review the following properties: (properties in red must be changed)

|  |  |
| --- | --- |
| Property (excluding prefix ‘com.saggs.terracotta.nrplugin’) | Description |
| version | Version of this plugin. |
| tmc.executor.fixedDelay.milliseconds | The periodicity in milliseconds of the executor which obtains metrics from the TMC. |
| tmc.url | TMC Base URL. Use https if connecting over SSL or http otherwise. For example, http(s)://<TMC\_HOST>:<TMC\_PORT>/tmc |
| tmc.authentication.enabled | Defines whether the plug-in will attempt to authenticate to the TMC using the configured username and password over form login. |
| tmc.username | TMC user that the plug-in will authenticate as. Default users are admin and operator. Ignored if connecting over SSL. |
| tmc.password | TMC user’s password. Ignored if connecting over SSL. |
| tmc.numRelogAttempts | Number of times the plugin will attempt to authenticate into the TMC before giving up. |
| tmc.agents.sample.percentage | Percentage of clients the plugin should sample when collecting cache stats. |
| tmc.agents.sample.enabled | Controls whether client sampling is enabled. If enabled, tmc.agents.sample.percentage is ignored. |
| nr.executor.fixedDelay.milliseconds | The periodicity in milliseconds of the executor which publishes metrics to NR. |
| nr.proxy.enabled | Set to true if the plugin must use a proxy to reach the NR endpoint, false otherwise. |
| nr.proxy.scheme | HTTP scheme of the proxy being used. Ignored if com.saggs.terracotta.nrplugin.nr.proxy.enabled is set to false. |
| nr.proxy.host | HTTP host of the proxy being used. Ignored if com.saggs.terracotta.nrplugin.nr.proxy.enabled is set to false. |
| nr.proxy.port | HTTP port of the proxy being used. Ignored if com.saggs.terracotta.nrplugin.nr.proxy.enabled is set to false. |
| nr.scheme | HTTP scheme of the NR endpoint. |
| nr.host | HTTP hostname of the NR endpoint. |
| nr.port | HTTP port of the NR endpoint. |
| nr.path | HTTP path of the NR endpoint. |
| nr.environment.prefix | Prefix to prepend to NR Component names when publishing metrics. E.g. “IMPL\_someCache” or “IMPL\_server5”. |
| nr.agent.terracotta.guid | NR Agent GUID that the plug-in will use to publish all TSA related metrics. |
| nr.agent.ehcache.guid | NR Agent GUID that the plug-in will use to publish all Ehcache related metrics. |
| nr.agent.licenseKey | New Relic license key for the New Relic user account being used to publish metrics. |
| data.windowSize | Maximum number of values per metric that the plug-in will record. |

## Configure SSL connections

### SSL for TMC connections

If using SSL to connect to the TMC, open /opt/terracotta/tc-nr-plugin-2.0.0/start-terracotta-newrelic-plugin.sh in an editor.

* Look for this line:

JAVA\_OPTS="${JAVA\_OPTS} -Xms128m -Xmx512m

-Djavax.net.ssl.keyStore=conf/geotrust.jks \

-Djavax.net.ssl.keyStorePassword=password

-Djavax.net.ssl.trustStore=conf/geotrust.jks \

-Djavax.net.ssl.trustStorePassword=password"

* Change the references to geotrust.jks to a new keystore/truststore which is configured to trust both the TMC and New Relic while also being trusted by the TMC, then update the password accordingly.

### No SSL for TMC connections

If not using SSL to connect to the TMC, you may leave /opt/terracotta/tc-nr-plugin-2.0.0/start-terracotta-newrelic-plugin.sh as is.

# RUNNING the plug-in

## Switch to the terracotta user

* su terracotta

## Navigate to the TC-NR Plug-in installation directory

* cd /opt/terracotta/tc-nr-plugin-2.0.0

## Execute the startup script

* ./start-terracotta-newrelic-plugin.sh

## Check the logs for any startup errors

* less /opt/terracotta/tc-nr-plugin-2.0.0/log/tc-nr-plugin.<DATE>.log