

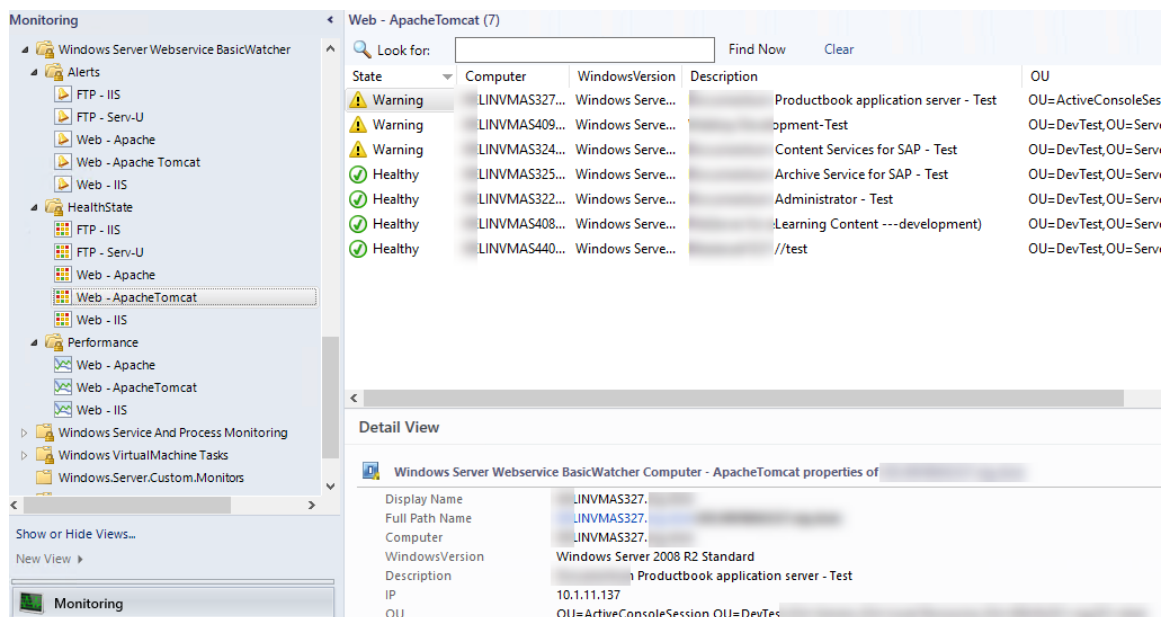
Monitor Apache, Apache Tomcat and IIS with SCOM

Introduction

Windows.Server.WebService.BasicWatcher is a Management Pack for SCOM which monitors common web- and ftp services on Windows.

Features:

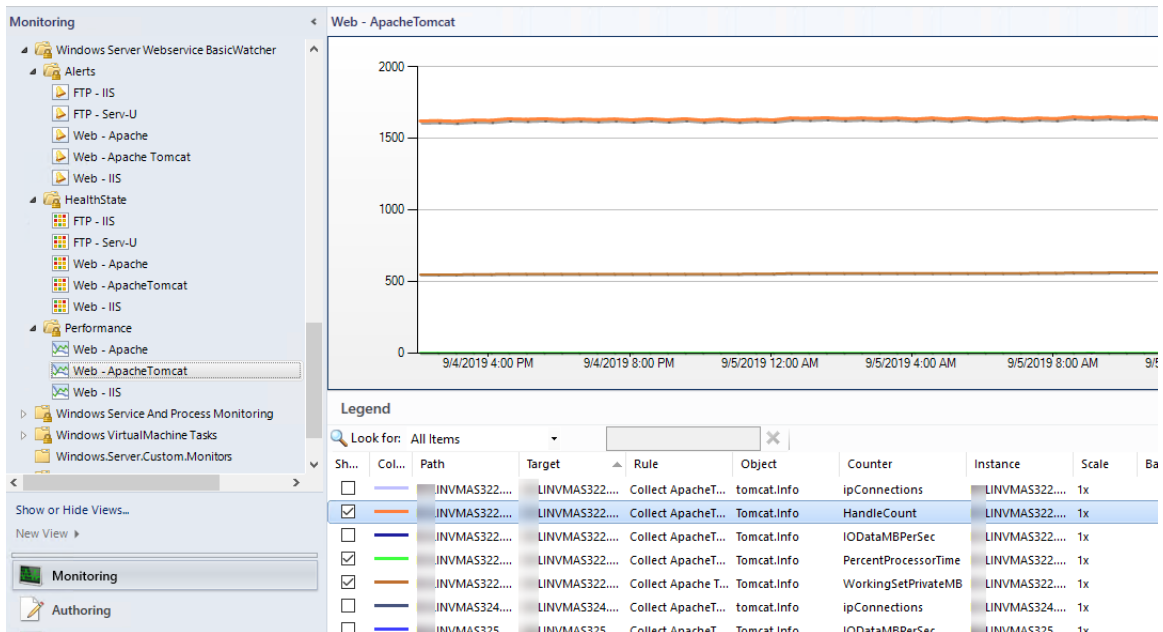
Identify and monitors servers that host Apache, Apache Tomcat, IIS, FTP on IIS and Serv-U FTP



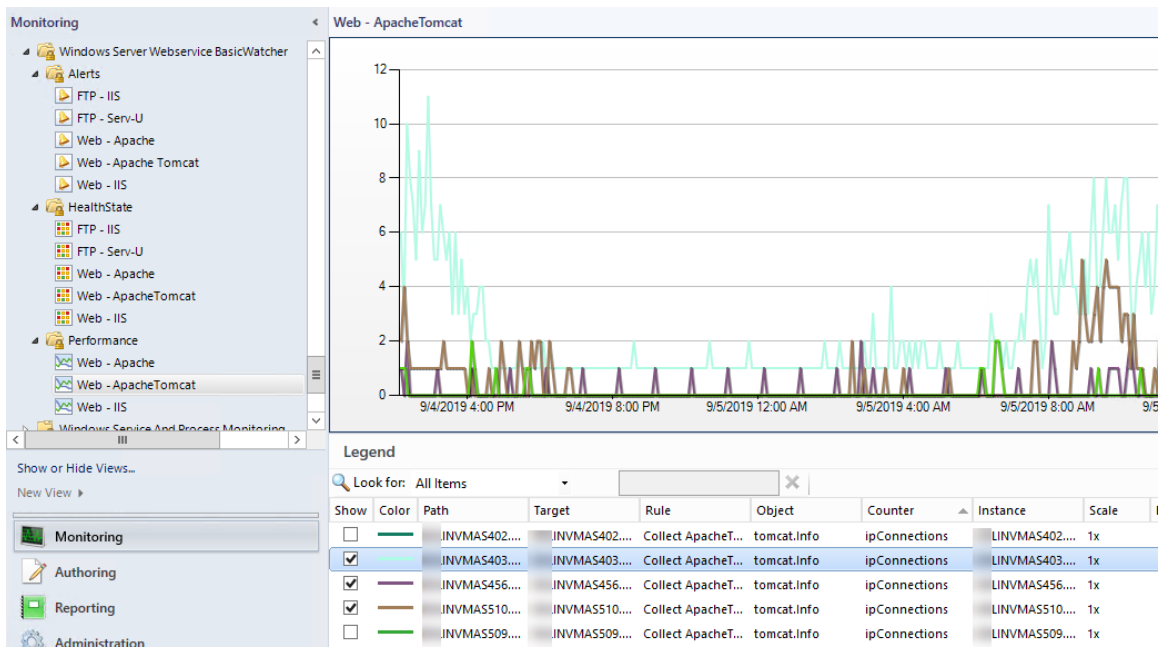
| State | Computer | WindowsVersion | Description | OU |
|---------|--------------|------------------|---------------------------------------|---------------------|
| Warning | LINVMA327... | Windows Serve... | Productbook application server - Test | OU=ActiveConsoleSes |
| Warning | LINVMA309... | Windows Serve... | opment-Test | OU=DevTest,OU=Serv |
| Warning | LINVMA324... | Windows Serve... | Content Services for SAP - Test | OU=DevTest,OU=Serv |
| Healthy | LINVMA325... | Windows Serve... | Archive Service for SAP - Test | OU=DevTest,OU=Serv |
| Healthy | LINVMA322... | Windows Serve... | Administrator - Test | OU=DevTest,OU=Serv |
| Healthy | LINVMA308... | Windows Serve... | Learning Content ---development) | OU=DevTest,OU=Serv |
| Healthy | LINVMA340... | Windows Serve... | //test | OU=DevTest,OU=Serv |

| Detail View | |
|--|---------------------------------------|
| Windows Server WebService BasicWatcher Computer - ApacheTomcat properties of | |
| Display Name | LINVMA327... |
| Full Path Name | LINVMA327... |
| Computer | LINVMA327... |
| WindowsVersion | Windows Server 2008 R2 Standard |
| Description | Productbook application server - Test |
| IP | 10.1.11.137 |
| OU | OU=ActiveConsoleSession,OU=DevTes |

Collect key performance information like Handles, RAM and CPU usage of the services



Check how many connections averagely are made



Change History

| Date | Build No. | Changes |
|------------|-----------|--------------------------|
| 2019-09-03 | 1.0.0.248 | Initial Upload to GitHub |

Contents

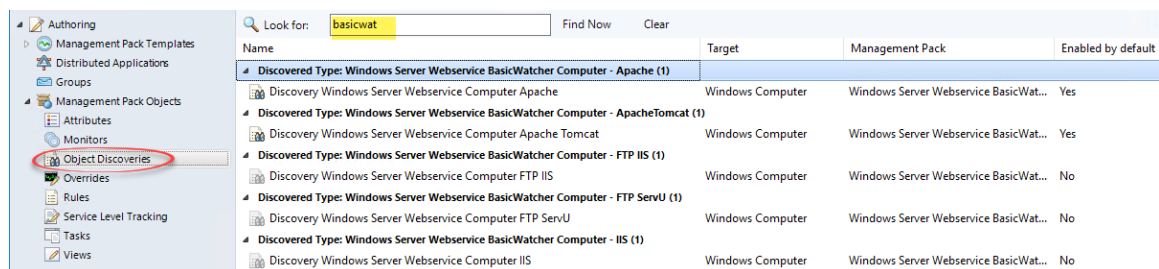
- Introduction 1
 - Features: 1
- Change History 3
- Configuration 4
 - New Management Pack for customizations 4
 - Enable disabled components 5
- Usage 7
 - Health State Information 7
- Management Pack Components (Reference) 8
 - Classes 8
 - Discoveries 8
 - Monitors (Unit) 9
 - Rules (Performance Collection) 9
 - Views 10
- License Terms 11

Configuration

New Management Pack for customizations

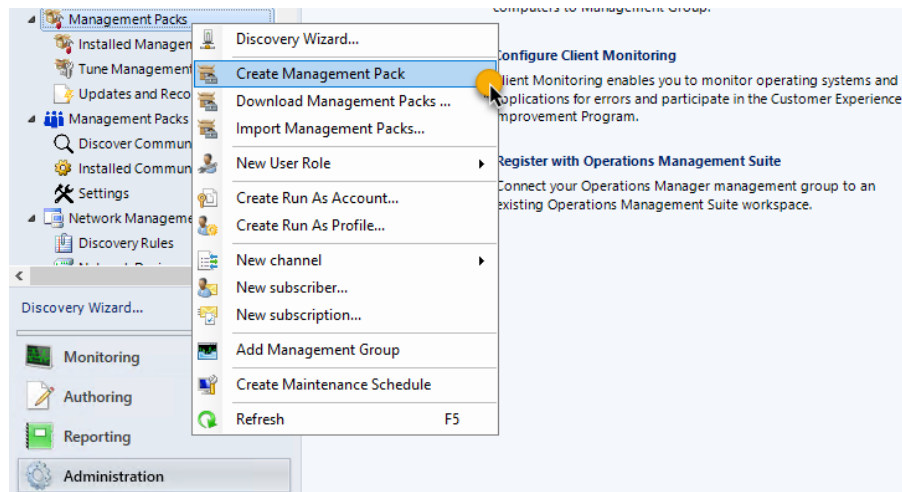
By default, only servers hosting Apache and Apache Tomcat are discovered.

If also IIS, IIS-FTP or Serv-U (FTP) shall be found – and later also monitored, the discovery jobs insight of this Management Pack needs to be enabled.

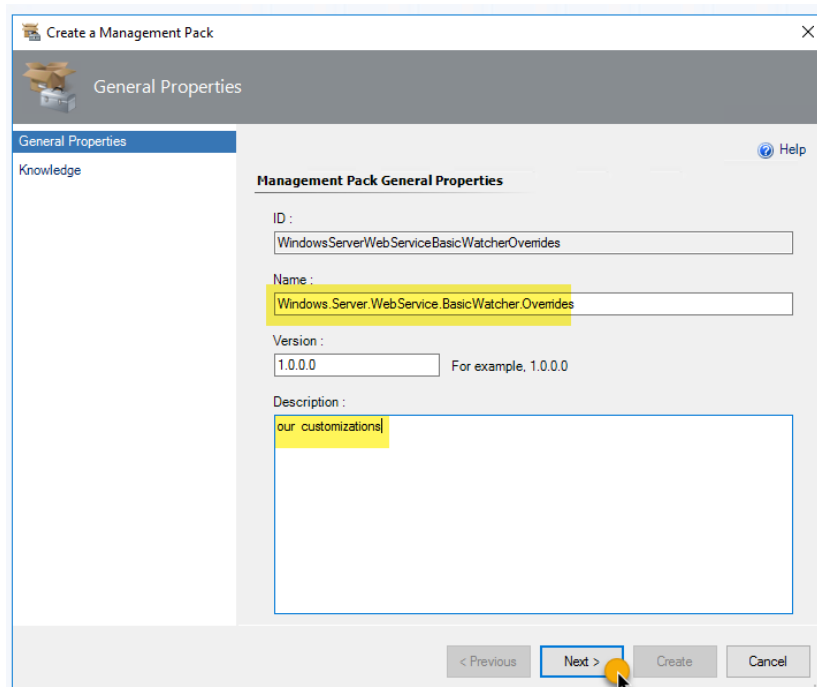


| Name | Target | Management Pack | Enabled by default |
|---|------------------|---------------------------------------|--------------------|
| Discovered Type: Windows Server Webservice BasicWatcher Computer - Apache (1) | | | |
| Discovery Windows Server Webservice Computer Apache | Windows Computer | Windows Server Webservice BasicWat... | Yes |
| Discovered Type: Windows Server Webservice BasicWatcher Computer - ApacheTomcat (1) | | | |
| Discovery Windows Server Webservice Computer Apache Tomcat | Windows Computer | Windows Server Webservice BasicWat... | Yes |
| Discovered Type: Windows Server Webservice BasicWatcher Computer - FTP IIS (1) | | | |
| Discovery Windows Server Webservice Computer FTP IIS | Windows Computer | Windows Server Webservice BasicWat... | No |
| Discovered Type: Windows Server Webservice BasicWatcher Computer - FTP ServU (1) | | | |
| Discovery Windows Server Webservice Computer FTP ServU | Windows Computer | Windows Server Webservice BasicWat... | No |
| Discovered Type: Windows Server Webservice BasicWatcher Computer - IIS (1) | | | |
| Discovery Windows Server Webservice Computer IIS | Windows Computer | Windows Server Webservice BasicWat... | No |

To create a new Management Pack, change to Administration, select the Management Packs section and right click. In the menu select Create Management Pack.



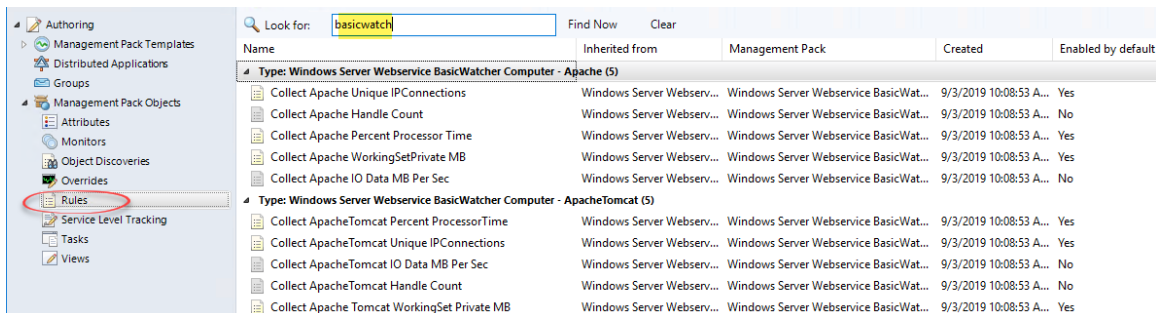
Name the Management Pack Windows.Server.WebService.BasicWatcher.Overrides (suggestion) and proceed the dialog with confirming the default settings.



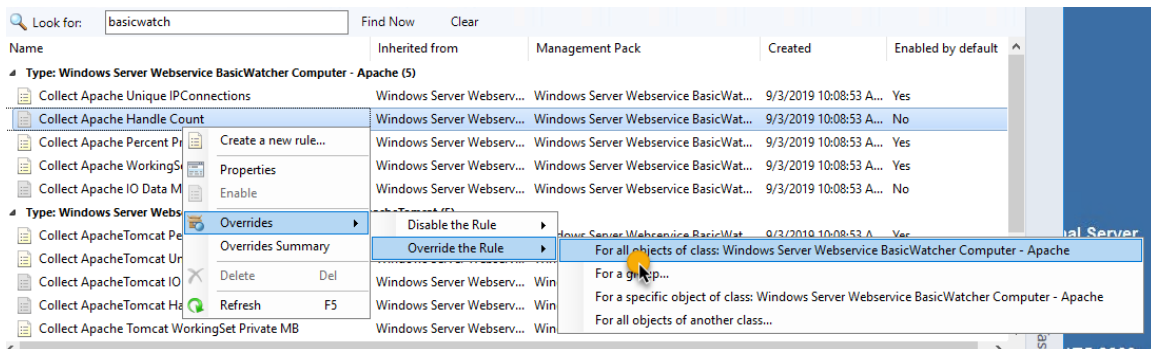
Enable disabled components

Beside of discoveries also some performance rules are disabled by default.

To enable them, switch to Authoring, select Rules and search for basicwatch



Then, right click the rule you want to change and click 'override' and override the default for all objects of that class for example.



Override Properties

Rule name: Collect Apache Handle Count

Category: None

Overrides target: Class: Windows Server Webservice BasicWatcher Computer - Apache

Override-controlled parameters: [Show Rule Properties...](#)

| | Override | Parameter Name | Parameter Type | Default Value | Override Value | Effective Value | Change Status |
|---|-------------------------------------|----------------|----------------|---------------|----------------|-----------------|---------------|
| ▶ | <input checked="" type="checkbox"/> | Enabled | Boolean | False | True | False | [Added] |

Details:

| Enabled | Description |
|--|-------------|
| The new custom override will be created in the 'Windows.Server.WebService.BasicWatcher.Overrides'. Click apply to view the new effective value for this parameter. | |

Management pack

Select destination management pack:

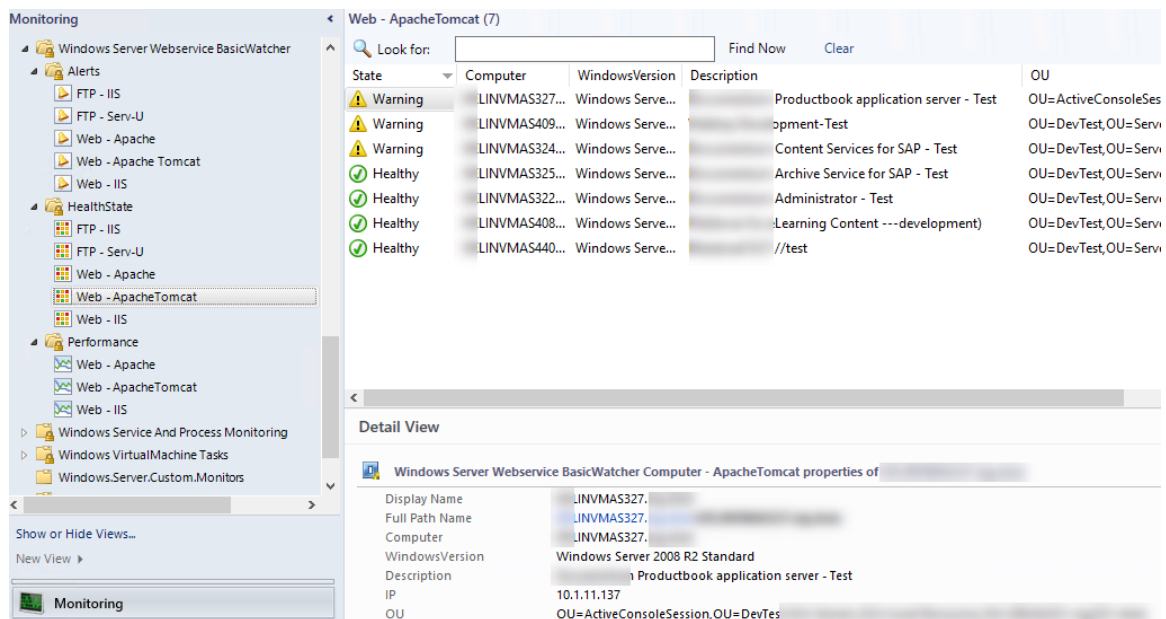
Windows.Server.WebService.BasicWatcher.Overrides

Help OK Apply Cancel

Enable the setting and store the configuration in the Management Pack previously created.

Usage

After a while discovered objects appear in the SCOM console.



Health State Information

The monitors work as follows:

| Windows Service State | Monitoring Result |
|-----------------------|-------------------|
| Running | Healthy |
| Manual or Disabled | Warning |
| Stopped | Error |

Management Pack Components (Reference)

Classes

| Id |
|--|
| Windows.Server.Webservice.BasicWatcher.Computer |
| Windows.Server.BasicWatcher.Computer.IIS |
| Windows.Server.Webservice.BasicWatcher.Computer.Apache |
| Windows.Server.Webservice.BasicWatcher.Computer.ApacheTomcat |
| Windows.Server.Webservice.BasicWatcher.Computer.FTP.IIS |
| Windows.Server.Webservice.BasicWatcher.Computer.FTP.ServU |

Discoveries

| Id | Enabled |
|---|---------|
| Discovery.Windows.Server.Webservice.Computer.Apache | Yes |
| Discovery.Windows.Server.Webservice.Computer.ApacheTomcat | Yes |
| Discovery.Windows.Server.Webservice.Computer.IIS | No |
| Discovery.Windows.Server.Webservice.Computer.FTP.IIS | No |
| Discovery.Windows.Server.Webservice.Computer.FTP.ServU | No |

Monitors (Unit)

| Id | Enabled | Alerting Enabled |
|---------------------------------|---------|------------------|
| Monitor.WebService.Apache | Yes | Yes |
| Monitor.WebService.ApacheTomcat | Yes | Yes |
| Monitor.WebService.IIS | Yes | Yes |
| Monitor.WebService.FTP.IIS | Yes | Yes |
| Monitor.WebService.FTP.Serv-U | Yes | Yes |

Rules (Performance Collection)

| Id | Enabled |
|--|---------|
| Perf.Apache.HandleCount | No |
| Perf.Apache.IODataMBPerSec | No |
| Perf.Apache.IPConnections | Yes |
| Perf.Apache.PercentProcessorTime | Yes |
| Perf.Apache.WorkingSetPrivateMB | Yes |
| Perf.ApacheTomcat.HandleCount | No |
| Perf.ApacheTomcat.IODataMBPerSec | No |
| Perf.ApacheTomcat.IPConnections | Yes |
| Perf.ApacheTomcat.PercentProcessorTime | Yes |
| Perf.ApacheTomcat.WorkingSetPrivateMB | Yes |
| Perf.IIS.HandleCount | No |
| Perf.IIS.IODataMBPerSec | No |
| Perf.IIS.IPConnections | Yes |
| Perf.IIS.PercentProcessorTime | Yes |
| Perf.IIS.WorkingSetPrivateMB | Yes |

Views

| Id |
|-------------------------------------|
| View.Alerts.FTP.IIS |
| View.Alerts.FTP.ServU |
| View.Alerts.WebService.Apache |
| View.Alerts.WebService.ApacheTomcat |
| View.Alerts.WebService.IIS |
| View.Perf.Apache |
| View.Perf.ApacheTomcat |
| View.Perf.IIS.Web |
| View.State.Webservice.Apache |
| View.State.Webservice.ApacheTomcat |
| View.State.Webservice.IIS |

License Terms

Windows.Server.Webservice.BasicWatcher Copyright (C) 2019 Ruben Zimmermann (Juanito99)

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.