

# Varnish Stats Monitor Plugin



Varnish is a web application accelerator. You install it in front of your web application and it will speed it up significantly.

The varnishStat Plugin enables monitoring key stats from the varnishstats utility. The plugin uses ssh to connect to a Linux server and then executes `varnishstats -j` to pull back the varnish stats in Json format. The plugin then creates the varnish stat measures in dynaTrace by parsing the Json inputStream.

|                         |  |
|-------------------------|--|
| <b>Name and Version</b> | VarnishStats Monitoring Plugin   |
| <b>Compatible with</b>  | dynaTrace 5.x, 6.x   |
| <b>Author</b>           | Jeff Yarbrough - Dynatrace<br>Bill Gillette - Dynatrace (1.0.9.1)  |
| <b>License</b>          | <a href="#">dynaTrace BSD</a>  |
| <b>Support Level</b>    | Not Supported<br>If you have any questions or suggestions for these plugins, please add a comment to this page, use our <a href="#">forum</a> , or drop us an email at <a href="mailto:community@dynatrace.com">community@dynatrace.com</a> !  |
| <b>Download</b>         | <a href="#">varnishstat.1.0.7</a> (Varnish 3.x)<br><a href="#">varnishstat.1.0.8</a> (Varnish 3.x)<br><a href="#">VarnishStats.1.0.8.1.jar</a> (Varnish 3.x) - with RSA keyFile option<br><a href="#">varnishstat.1.0.9.1</a> (Varnish 4.x)<br><a href="#">VarnishStat.1.1.0 dtp file</a> -(Varnish 4.x) - with RSA keyFile option<br><a href="#">varnish_1.1.0.jar</a> (jar file version) |
| <b>Installation</b>     | Import the plugin into dynaTrace server  |
| <b>Release History</b>  | 2013-07-25 Initial Release<br>2016-02-19 version 1.0.9 for use with Varnish 4.x<br>2016-08-03 added RSA keylogin   |

## User Verification:

You must verify the user has the permissions on the target machine to pull the stats with the `varnishstat -j` command.

## Steps:

### Import Plugin:

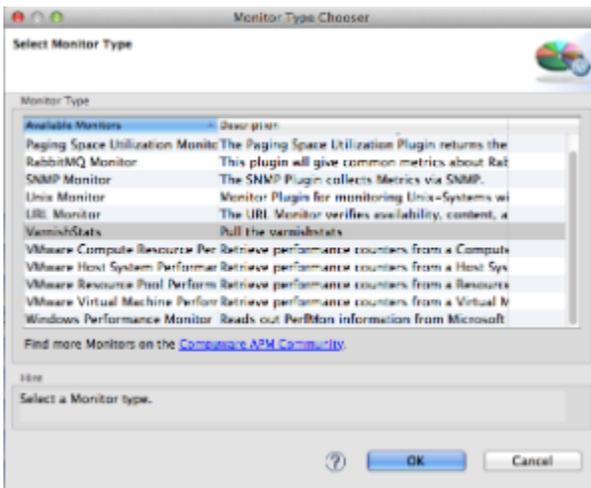
| Name  | Plugin Type                  | Active                              | Depends                             | Support level                       | Version    |
|---|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------|
| Java  | Agent Metric Group           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |
| BasicConnectionPool                         | Agent Metric Group           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |
| Linux Process Status Plugin                 | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.2      |
| Memory Dump Action Plugin, ...              | Action                       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| Paging Space Utilization Plugin             | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.1      |
| RabbitMQ Monitor                            | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |
| SNMP Action Plugin                          | Action                       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| UNIX Monitor Plugin                         | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| URLCheckAction                              | Action                       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.2      |
| Uptime                                      | Agent Metric Group           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |
| Unix System Monitor                         | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| URI Monitor                                 | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| VarnishStats                                | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| VMware Compute Resource Performance Monitor | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| VMware Host System Performance Mon          | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| VMware Performance Monitor Library #Library |                              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| VMware Resource Pool Performance Mo         | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| VMware Virtual Machine Performance M        | Monitor/Monitor Metric Group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5.5.0.5226 |
| WebLogic S                                  | Agent Metric Group           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |
| WebLogic S4                                 | Agent Metric Group           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |
| WebLogicConnectionPool                      | Agent Metric Group           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |
| WebSphere                                   | Agent Metric Group           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |
| WebSphereConnectionPool                     | Agent Metric Group           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.2.0      |

Import the Plugin into the dynaTrace Server. For details how to do this please refer to the [dynaTrace documentation](#).

After you import the plugin you will see the plugin as VarnishStats, type of plugin "Monitor Metric Group, Monitor".

## Setup Monitor:

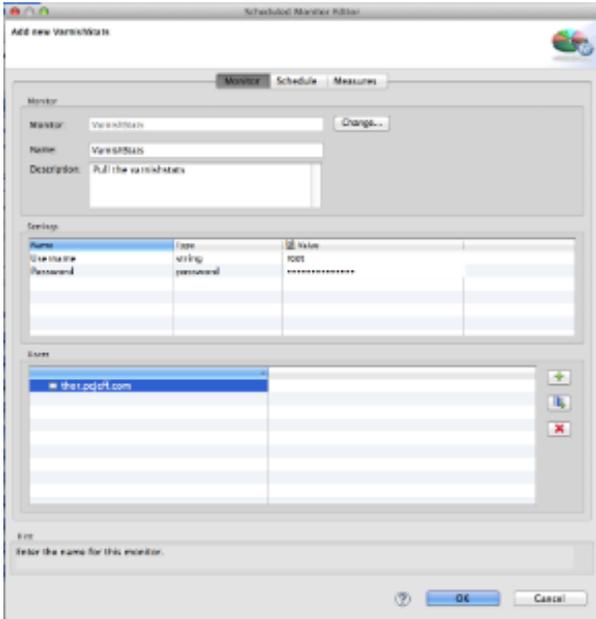
Under your system profile, you will need to create a monitor for the varnish plugin. Select Monitors under the profile and select "Create".



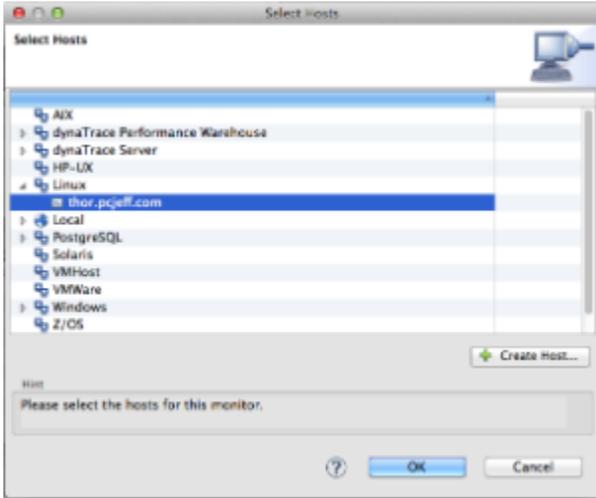
Select the VarnishStats monitor and click "ok".

## Configure Monitor:

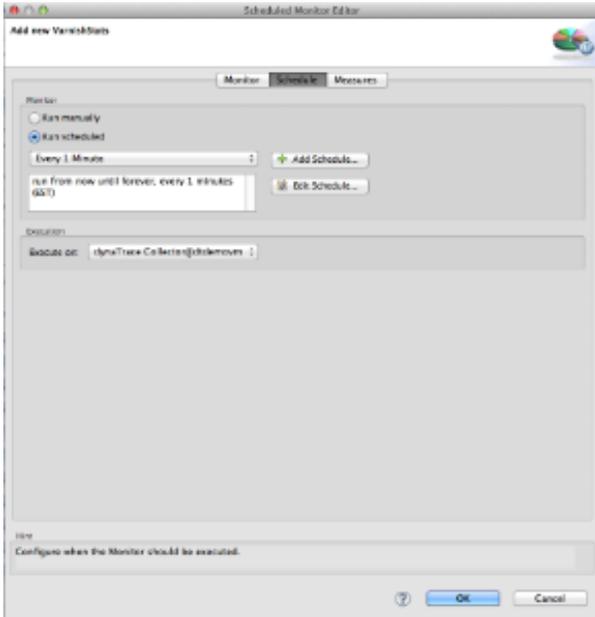
You will need to provide the login credentials (username/password) for the Linux host and give the monitor a name.



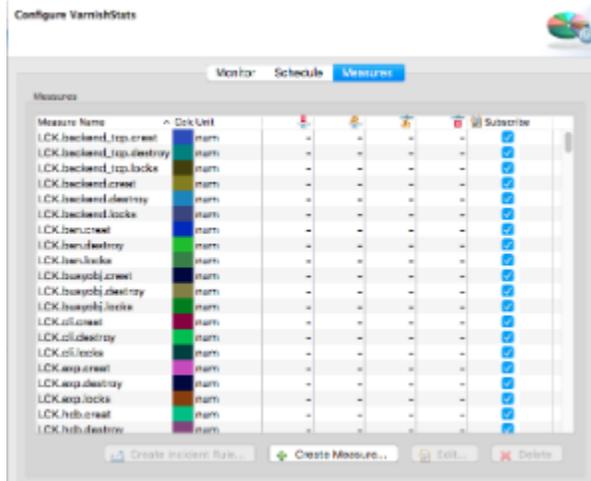
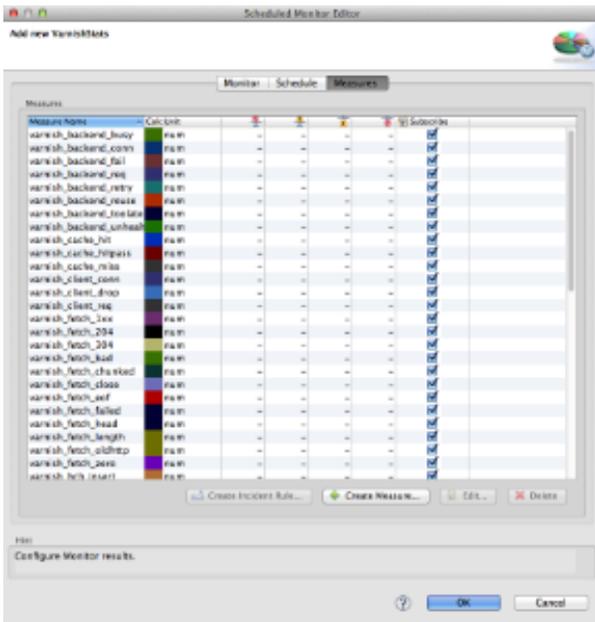
Make sure to add a host or hosts to the host configuration.



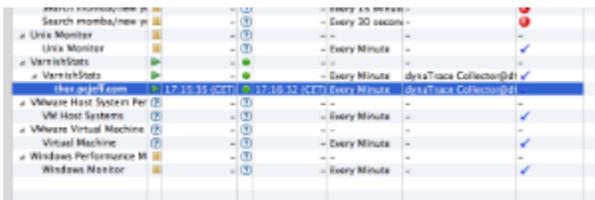
Set the schedule,



(Optionally) You can select which measures you would like to subscribe.



Click "OK", then you should see the Monitor has been created.



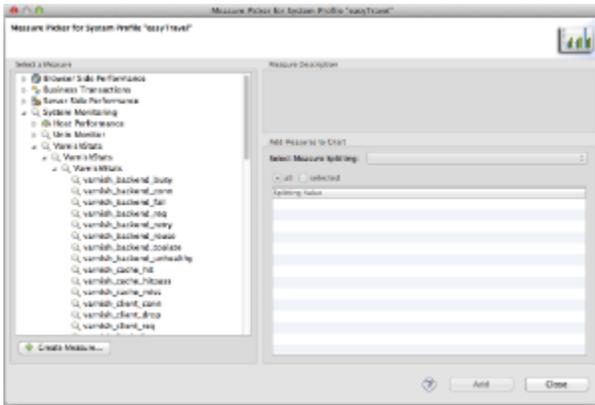
## Validation:

You will need select the monitor and click "Run Now", the monitor should display a green indicator to let you know everything worked.

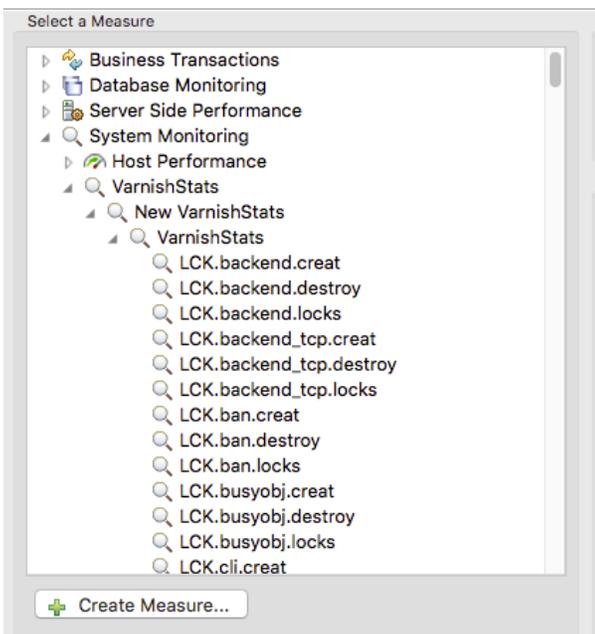
## Measures:

You can now see the measure for VarnishStats under "System Monitoring".

version 1.0.7 and 1.0.8 (Varnish 3.x)



Version 1.0.9 (Varnish 4.x)



## Configuration

| Name     | Value  |
|----------|--|
| Username | The username to use for authentication to the restful interface              |
| Password | The password for the username used to authenticate to the restful interface. |
| command  | default is "varnish stat -j" Do Not Change                                   |

## Troubleshooting

1) User executing command needs proper permissions.

```
| /var/lib/varnish/<host>/_vsm and make it read/write (chmod +rw)
```

2) If you see this error in the log, <DTHOME>/log/collector/<collector target>/com.dynatrace.diagnostics.plugin.Varnish.Monitor.0.0.log

```
2016-02-24 14:46:12 INFO [VarnishMonitor@7b956074-a4c4-4347-a93e-665dc1312a20] com.jcraft.jsch.JSchException: Algorithm negotiation fail
```

**Fix:**

In my case - OpenSSH\_6.7p1 on server - I had to modify KexAlgorithms and MACs (additional hmac-md5,hmac-sha1,hmac-sha1-96,hmac-md5-96 values):

```
KexAlgorithms curve25519-sha256@libssh.org,ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,diffie-hellman-group-exchange-sha256,diffie-hellman-group14-sha1,diffie-hellman-group-exchange-sha1,diffie-hellman-group1-sha1
```

```
MACs hmac-sha2-512-etm@openssh.com,hmac-sha2-256-etm@openssh.com,hmac-ripemd160-etm@openssh.com,umac-128-etm@openssh.com,hmac-sha2-512,hmac-sha2-256,hmac-ripemd160,umac-128@openssh.com,hmac-md5,hmac-sha1,hmac-sha1-96,hmac-md5-96
```

Above should be placed:

```
/etc/ssh/sshd_config
```

And then restart the ssh:

```
sudo /etc/init.d/ssh restart
```

## Contribution

Feel free to contribute any changes on [Github](#)