

Introduction

LZ Syslog Agent is a Windows service that sends Windows event log messages to a syslog server. Syslog is a widely used protocol of event notification and LZ Syslog Agent allows Windows machines to be part of this environment.

Features

This program supports the following:

- Simple configuration and ease of use.
- UDP and TCP transport on IPV4 and IPV6.
- Syslog protocols RFC3164 and RFC5424.

History

Parts of this Syslog Agent are based the Datagram Syslog Agent, which in turn was based on SaberNet's NTSyslog. The bulk of the work is Copyright © 2021 by [Logzilla Corporation](#).

Installation

The LZ Syslog Agent programs are installed by executing the LogZilla_SyslogAgent_2.1.0.0.msi file.

Prerequisites

The LZ Syslog Agent configuration program, SyslogAgentConfig.exe, requires .NET Framework 4.6.2 or later. The LZ Syslog Agent service, SyslogAgent.exe, has no prerequisites.

Configuration

The operation of the LZ Syslog Agent service is controlled by registry settings. These can be maintained with the LZ Syslog Agent configuration program, SyslogAgentConfig.exe. This program always runs as administrator.

Syslog Agent Configuration

Servers

Primary LogZilla server: logzilla.mycompany.com

Secondary LogZilla server: 11.22.33.44

Send to Secondary: ☒

Event Logs

☒ Application

☐ Hardware Events

☐ Internet Explorer

☐ Key Management Service

☒ Security

☒ System

☐ Windows PowerShell

Select All Unselect All

Event Selection

Poll interval: 10

Ignore event ids: 4624,4625

Message Content

Look up account IDs: ☒

Include key-value pair: ☒

Facility: Local 4

Severity: Dynamic

Suffix: "msg1": "test1", "msg2": "test2"

Debug Logging

Debug Log Level: None

Debug Log File Name:

LogZilla Syslog Agent version 2.1.0.0

Save Restart

Agent service is running

Servers

The address and port for the primary Syslog server, and optionally for a secondary server can be entered. The address can be either a host name or an IP address.

Send to secondary

There is an option to send messages to a secondary Syslog server. If selected, every message successfully sent to the primary server will also be sent to the secondary server.

Event Logs

A list of all event logs on the local system is displayed. Messages in the event logs that are checked will be sent to the server.

Poll Interval

This is the number of seconds between each time the event logs are read to check for new messages to send.

Ignore Event Ids

To reduce the volume of messages sent, it is possible to ignore certain event ids. This is entered as a comma-separated list of event id numbers.

Look up Account IDs

Looking up the domain and user name of the account that generated a message can be expensive, as it may involve a call to a domain server, if the account is not local. To improve performance, this look up can be disabled and messages will be sent to the server without any account information.

Include key-value pairs

To aid parsing on the syslog server, the message content is enhanced by appending the following key-value pairs:

- “event_id” : “nnnn” contains the Windows event id
- “_source_type” : “WindowsAgent” identifies this program as the sender of the message
- “S1”: “xxx”, “S2”: “xxx”, ... contain the substitution strings, if any

Facility

The selected facility is included in all messages sent.

Severity

By selecting ‘Dynamic’, the severity for each message is determined from the Windows event log type. Otherwise, the selected severity is included in all messages sent.

Suffix

The suffix is an optional set of key/value pairs that is appended to all messages sent.

Log Level

This configures the “level” of log messages produced by the Syslog Agent. The “level” means the type or importance of a given message. Any given log level will produce messages at that level and those levels that are more important. For example if “RECOVERABLE” is chosen, the Syslog Agent will also produce log messages of levels “FATAL” and “CRITICAL”. Logging is optional, so this can be left set to “None”.

Log File Name

This configures the path and name of the file to which log messages will be saved. If a path and directory are specified that specific combination will be used for the log file, otherwise the log file will be saved in the directory with the SyslogAgent.exe file. If log level is set to “None” this will be blank.

Save

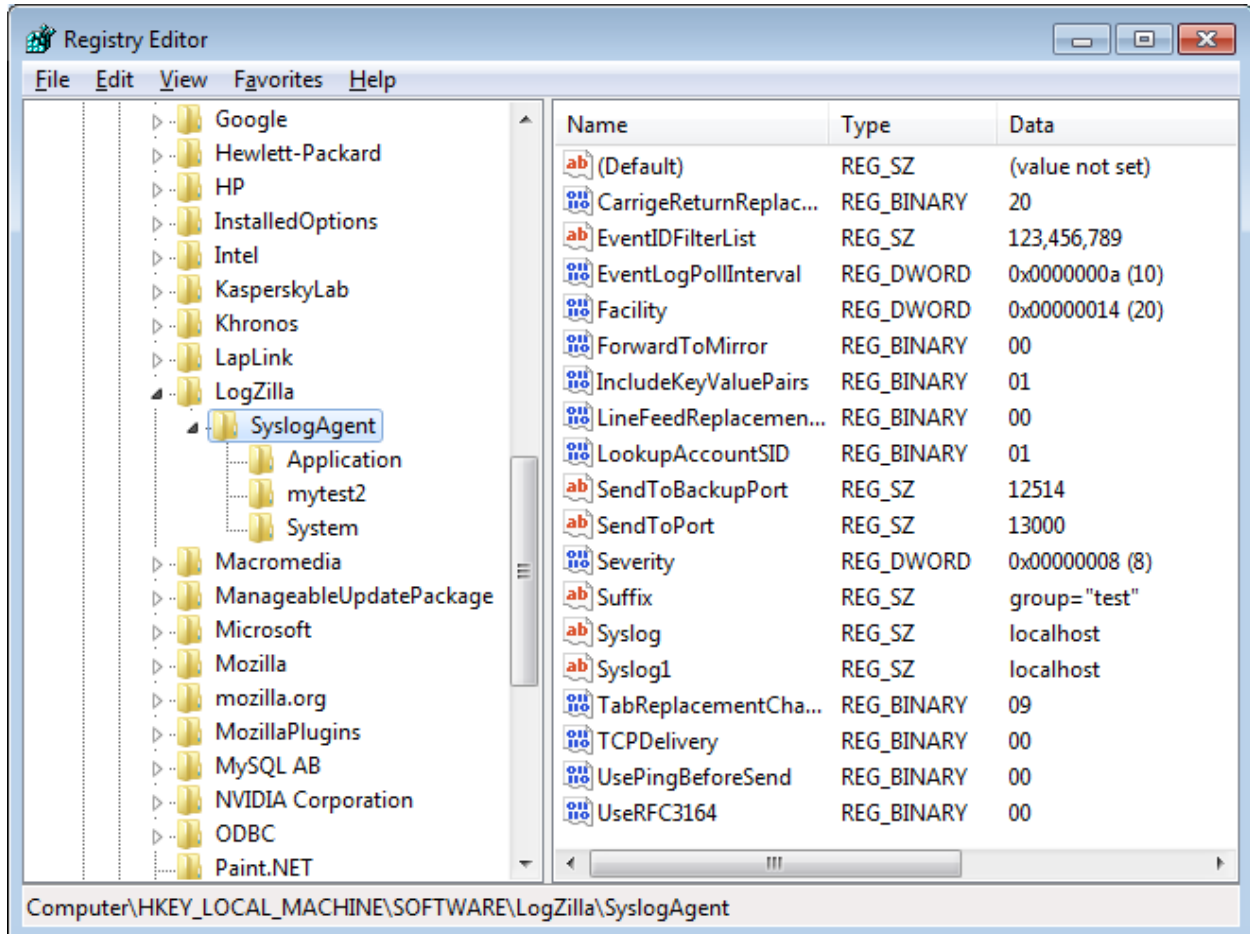
The configuration settings are stored in the registry.

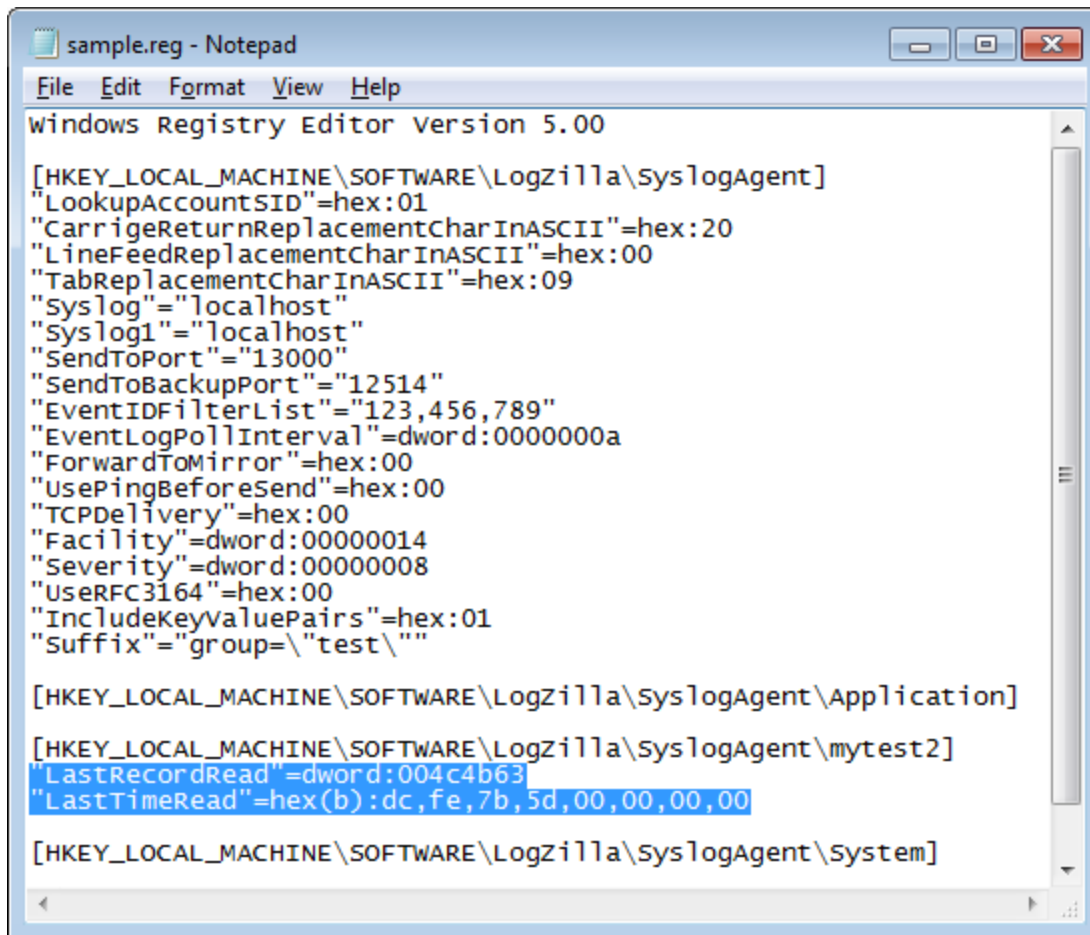
Restart

If the syslog agent service is running, it must be restarted to pick any changes made in the configuration settings.

Registry Data

The settings are stored in the registry at HKEY_LOCAL_MACHINE\SOFTWARE\Logzilla\SyslogAgent. There are sub-keys for each event log selected.





Settings can be maintained on one machine and loaded onto another machine by exporting them to a text file. This is done by right-clicking on the SyslogAgent node and selecting 'Export', or using the command line:

```
regedit /E sample.reg "HKEY_LOCAL_MACHINE\SOFTWARE\Logzilla\SyslogAgent"
```

The settings are loaded on the target machine with the command line:

```
regedit /S sample.reg
```

If the Syslog Agent service has been run on the source machine, the registry may contain information about the last messages processed, and these lines should be deleted before loading the settings on to another machine.

Operation

After the Syslog Agent has been installed as a Windows service, it can be started and stopped with the Windows Services control panel, or with the command line:

```
net start "LZ Syslog Agent"
```

and

```
net stop "LZ Syslog Agent"
```

For testing, the Syslog Agent can be run from the command line. The command prompt must be run as administrator.

```
syslogagent -console
```

or

```
syslogagent -console -debug
```

to print debugging information.

To stop a test run, type the 'esc' key.