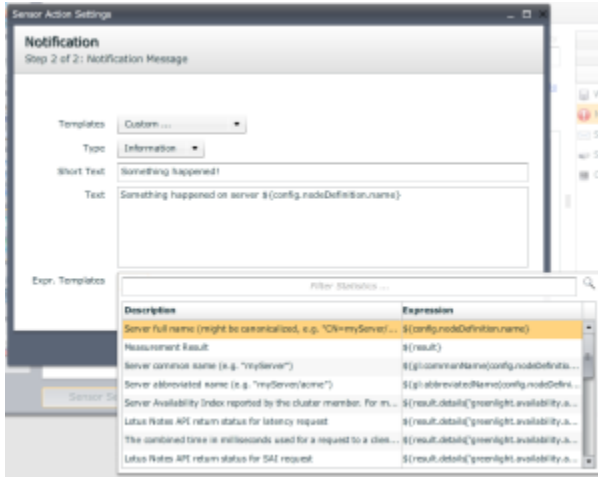


Advanced Notification Messages

Introduction

When writing your notification messages you may already have been using GreenLight's expression language without knowing it. By picking a template from the "Expr. Templates" pulldown a code-snippet gets pasted into your message. Later, when the notification is send, this snippet is parsed and replaced with the resulting value.



While the pulldown provides you with a comfortable way of customizing your message, it's not a complete list of all functions available. On the following pages you will find a set of useful functions.

Functions

Syntax

Functions are defined as follows (note: every expression has to start with `${` and end with `}`):

```
PREFIX:FUNCTION_NAME([ ARGUMENTS, ... ])
```

Prefixes

Currently the following prefixes are available:

Prefix	Description
gl	GreenLight specific functions
str	String manipulation utils
arr	Array manipulation utils

GreenLight specific functions

Function	Description	Example
Object def(Object obj, Object defaultValue)	Returns the <i>defaultValue</i> if <i>obj</i> is <i>null</i>	<code>\${gl:def(result, "no result found")}</code>
int maxInt()	Returns the maximum value an <i>int</i> can have	<code>\${gl:maxInt()}</code>
String concat(String val1, String val2)	Concatenates the two arguments and returns the resulting string	<code>\${gl:concat('some', 'value')}</code>
String commonName(String name)	Returns the common server name	<code>\${gl:commonName('cn=myServer/o=acme')}</code>

<code>String abbreviatedName(String name)</code>	Returns the abbreviated server name	<code>\${gl:abbreviatedName('cn=myServer/o=acme')}</code>
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String manipulation functions

Function	Description	Example
<code>boolean isEmpty(String str)</code>	Checks if a String is empty ("") or <i>null</i>	<code>\${str:isEmpty(value)}</code>
<code>boolean isBlank(String str)</code>	Checks if a String is whitespace, empty ("") or <i>null</i>	<code>\${str:isBlank(value)}</code>
<code>String trim(String str)</code>	Removes control characters from both ends of this String	<code>\${str:trim(' text ')}</code>
<code>int indexOf(String str, String searchStr)</code>	Finds the first index within a String	<code>\${str:indexOf('abcdefg', 'd')}</code>
<code>int lastIndexOf(String str, String searchStr)</code>	Finds the last index within a String	<code>\${str:indexOf('abcdefgd', 'd')}</code>
<code>String substring(String str, int start, int end)</code>	Gets a substring from the specified String	<code>\${str:substring('aabbaa', 2, 4)}</code>
<code>String substringBefore(String str, String separator)</code>	Gets the substring before the first occurrence of a separator	<code>\${str:substringBefore('myServer/acme', '/')}</code>
<code>String substringAfter(String str, String separator)</code>	Gets the substring before the first occurrence of a separator	<code>\${str:substringAfter('name@server', '@')}</code>
<code>String[] split(String str, String separator, int max)</code>	Splits the provided text into an array	<code>\${str:split("ab:cd:ef", ":", -1)}</code>
<code>String replace(String text, String searchString, String replacement)</code>	Replaces all occurrences of a String within another String	<code>\${str:replace('some_string', '_', ' ')}</code>
<code>String abbreviate(String str, int maxWidth)</code>	Abbreviates a String using ellipses	<code>\${str:abbreviate('some long text', 5)}</code>
<code>String lowerCase(String str)</code>	Converts a String to lower case	<code>\${str:lowerCase('SeRvEr/AcME')}</code>
<code>String upperCase(String str)</code>	Converts a String to upper case	<code>\${str:upperCase('server/acme')}</code>

Array manipulation functions

Function	Description	Example
<code>Object[] subarray(Object[] array, int startIndex, int endIndex)</code>	Produces a new array containing the elements between the start and end indices	<code>\${arr:subarray(str:split('ab:cd:ef', ':'), 0, 1)}</code>
<code>int getLength(Object array)</code>	Returns the length of an array	<code>\${arr:getLength(str:split('ab:cd:ef', ':'))}</code>
<code>Object[] remove(Object[] array, int index)</code>	Removes the element at the specified position from the specified array	<code>\${arr:remove(str:split('ab:cd:ef', ':'), 0)}</code>

Examples

Combining functions

The following will output the number of Administrator groups for a server:

```
There are ${arr:getLength(str:split(result.statistics['Server.Administrators'], ',', -1))} Administrator groups on server ${gl:commonName(config.nodeDefinition.name)}
```