

# Creating Custom Alert Scripts in Uptime Infrastructure Monitor Alert Profiles

## Contents

- [Overview](#)
- [How custom alert scripts work](#)
- [Environment Variable Examples](#)

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## Overview

When a service outage occurs, Uptime Infrastructure Monitor can generate an alert in a number of ways including sending an email, opening a Windows pop-up or initiating a pager message. You can also define your own **Script Alert** that will be executed on the monitoring station when an outage occurs. You can use the Script Alert option to create custom alerting methods that fit your exact needs. Some examples of custom alerting implementations include:

- SMS modem-based alerting
- TAPI modem alerting
- Internal Problem Ticket creation system alerts
- On call team rotation
- Customized alert email body formatting

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## How custom alert scripts work

Please review the online documentation available here - [Alerts and Actions](#)

Custom alert scripts are defined with the Script Alert option on the Alert Profile page. The script is a path to a script or executable on the monitoring station system that Uptime Infrastructure Monitor will run when a service outage occurs. You control the actions that the script or executable takes, which provides full control over how Uptime Infrastructure Monitor sends out alert notifications during a service outage.

### Note

 For Windows alert scripts, the path used must use UNIX-style / instead of \ and must be quoted if your path contains spaces. For example:  
"C:/Program Files/uptime software/uptime/scripts/my\_custom\_alerter.bat"

When Uptime Infrastructure Monitor runs the script or executable, it passes on information about the specific service outage that triggered the alert. This information is passed using the system environment variables that are local to each execution of the recovery script. The script or executable is run once for each Uptime Infrastructure Monitor user that will be notified using this alert.

The environment variables passed to the alert script and their meanings are included below but for the latest documentation please refer to [Alert Profile and Action Profile Variables](#):

Variable	Description	Example Contents
<b>Service Message Fields</b> - These will remain constant for each execution of your script associated with a single service outage.		
UPTIME_ALERTTYPE	This is the type of alert message	One of: Problem, Recovery
UPTIME_HOSTNAME	The name of the host that the service outage is associated with.	oracle_server
UPTIME_HOSTSTATUS	The status of the host that the service outage is associated with.	One of: OK, WARN, CRIT, MAINT, UNKNOWN
UPTIME_MESSAGE	The output section of the alert.	Type: Problem Service: db_status (CRIT/threshold error) Host: oracle_db (OK)
UPTIME_SUBJECT	The subject line that would normally appear in an emailed alert for this alert.	Uptime Alert - UPTIME-oracle_server -> CRIT
UPTIME_SVCNAME	The name of the service monitor generating this alert.	UPTIME-oracle_server
UPTIME_SVCOUTPUT	The output of the service monitor generating this alert.	processoccurrences: 0 is less than 1
UPTIME_SVCSTATUS	The current status of the service monitor generating this alert.	One of: OK, WARN, CRIT, MAINT, UNKNOWN.

UPTIME_DATETIME	The date and time of the alert.	Mon May 15 11:12:22 EDT 2006
<b>User related fields</b> - these will change for each user that is passed to your script, the script will be executed once for each user that should be notified.		
UPTIME_CONTACTLOGIN NAME	The login name of the user who is being notified.	testuser
UPTIME_DESKTOPHOST	The windows desktop hostname setting for the user being notified.	testuser-pc
UPTIME_DESKTOPWORK GROUP	The windows workgroup for the desktop host specified above.	WORKGROUP
UPTIME_EMAIL	The email address associated with the user who is being notified.	testuser@yourcompany.com
UPTIME_MOBILE	The pager number associated with the user being notified.	1234123@sms.mynetwork.com
<b>General fields</b>		
UPTIME_SCRIPT	The name of the current script being executed.	C:/Program Files/uptime software/uptime4/scripts /my_custom_alerter.bat
UPTIME_SMTPELOSTR ING	The HELO string used in your SMTP server configuration.	
UPTIME_SMTPPASSW ORD	The password used from authentication in your SMTP server configuration.	
UPTIME_SMTPPOR T	The server port used in your SMTP server configuration.	
UPTIME_SMTPSEN DER	The sender address string used in your SMTP server configuration.	
UPTIME_SMTPSER VER	The server hostname used in your SMTP server configuration.	
UPTIME_SMTPU SER	The user name used for authentication in your SMTP server configuration.	

## Environment Variable Examples

How the script or executable uses environment variables will vary depending on the language you have used to write your script or executable. The following examples illustrate how environment variables are accessed in several common languages:

Language	Common methods of accessing environment variables.
Perl	Use of the <code>ENV</code> array to access environment variables with Perl. For example:  <pre>#!/usr/bin/perl my \$user_email = \$ENV{UPTIME_EMAIL}; my \$user_mobile = \$ENV{UPTIME_MOBILE};</pre>
PHP	When run from the command line, use the <code>getenv()</code> function to access environment variables within PHP. For example:  <pre>&lt;?php \$user_email = getenv('UPTIME_EMAIL'); \$user_mobile = getenv('UPTIME_MOBILE');</pre>
Bash and Ksh	Bash and Ksh enable you to access local environment variables just like any other local variable. For example:  <pre>#!/bin/bash EMAIL=\$UPTIME_EMAIL MOBILE=\$UPTIME_MOBILE</pre>
Batch File	Add the <code>%</code> symbol around the names of environment variables in Windows batch files. For example:  <pre>echo %UPTIME_EMAIL% echo %UPTIME_MOBILE%</pre>

VB Script

Use the the `oShell.Environment` lookup function to access environment variables with VB Script. For example:

```
Dim email, mobile  
Dim WshShell, objEnv
```

```
Set WshShell = CreateObject("WScript.Shell")
```

```
Set objEnv = WshShell.Environment("Process")
```

```
email = objEnv("UPTIME_EMAIL")  
mobile = objEnv("UPTIME_MOBILE")
```