HMAC-SHA1 Generator

Introduction

HMAC-SHA1 Generator plugin is used to generate a message signature using the SHA-1 hash function. The signature is returned as a hex-encoded string in the output variable `Jitterbit.HMACSHA1.Signature`. Private Agents and Cloud Agent Groups are supported for this plugin.

Global Variables

To use this plugin, any required global variables must be set in a script for use with the plugin. The input table below documents all possible variables for this plugin. The output table documents the signature variable output by the plugin.

Input

Name	Type	Required	Description
`Jitterbit.HMACSHA1.Key`	string	**Required**	The secret key.
`Jitterbit.HMACSHA1.Message`	string	**Required**	The message for which to create a signature.
`Jitterbit.HMACSHA1.Encoding`	string	Optional	The encoding to use when translating the key and message to bytes (For example, `UTF-8` or `ISO-8859-1`). If this value is not set, both the key and the message will be assumed to be US-ASCII.
`Jitterbit.HMACSHA1.Base64EncodedKey`	boolean	Optional	Set to `true` for base64-encoded keys. The default is `false`. If set to `true`, the value in the `Jitterbit.HMACSHA1.Key` variable is treated as a base64-encoded value. **Note:** Available in version 1.1 and later.
`Jitterbit.HMACSHA1.Base64EncodedMessage`	boolean	Optional	Set to `true` for base64-encoded messages. The default is `false`. If set to `true`, the value in the `Jitterbit.HMACSHA1.Message` variable is treated as a base64-encoded value. **Note:** Available in version 1.1 and later.

Output

Name	Type	Description
`Jitterbit.HMACSHA1.Signature`	string	The variable returns the signature as a hex-encoded string.

Example

This example script both sets the variables used as input for the HMAC-SHA1 Generator plugin, as well as runs the plugin.

Plugin

Jitterbit HMAC-SHA1 Generator 1.1.1 (ZIP)

Jitterbit HMAC-SHA1 Generator 1.1 (ZIP)

Jitterbit HMAC-SHA1 Generator 1.0 (ZIP)

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Related Topics

- Apply Plug-ins (Design Studio)
- Plugins
- Plugins (Cloud Studio)

```
<trans>
// Clear result:
$Jitterbit.HMACSHA1.Signature = "";

$Jitterbit.HMACSHA1.Key = "dGVzdA==";
$Jitterbit.HMACSHA1.Message = "Test";
$Jitterbit.HMACSHA1.Encoding = "UTF-8"; // optional
$Jitterbit.HMACSHA1.Base64EncodedKey = true;
$Jitterbit.HMACSHA1.Base64EncodedMessage = false;
eval(RunPlugin("<TAG>plugin:http://www.jitterbit.com/plugins/pipeline/user
/HMACSHA1Generator</TAG>"), $error=GetLastError());
WriteToOperationLog("HMAC Signature: " + $Jitterbit.HMACSHA1.Signature);
</trans>
```

The result of running this script is `HMAC Signature: 09106d4568a1c1205e900980482f932f170020b7`.

Versions

The current version of the plugin is 1.1.1. Prior versions of the plugin may also be in use:

- **1.1.1:** Runs under Linux systems in addition to Microsoft Windows.
- **1.1:** Accepts special characters such as carriage returns in keys and messages. Adds support for base64-encoded keys and messages.
- **1.0:** Initial version.