

运行回程输在CGOS CGR 1000的管理器脚本

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简介

本文描述如何运行在Cisco 1000 Series Connected Grid Router (CGR1000)的bhmgr.tcl脚本以操作系统被连接的网格(CGOS)。回程输是指连接回到顶头末端路由器的IPSec隧道(她)。

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

本文为在CGR1000系列路由器的CGOS版本是有限的;CGR1120 , CGR1240。

The information in this document was created from the devices in a specific lab environment.All of the devices used in this document started with a cleared (default) configuration.If your network is live, make sure that you understand the potential impact of any command.

背景信息

通常CGR位于与3G连接的一个远程区域作为主要连接。为了绑数据流到datacenter上, CGR使用一个IPSec隧道。结果, IPSec隧道把回程输视为。bhmgr.tcl脚本, 当正确设置, 尝试重新启动回程输的连接, 如果有链路问题。例如, 3G卡连接可以是多斑点的。因为接口能获得卡住, 回程输脚本能重新载入在CGR的3G模块到恢复链路。如果此程序是不成功的, 脚本尝试重新启动CGR作为最后一招。

对运行脚本的步骤

1. 确定什么接口需要是监控程序。通常，因为隧道形成连接回到她，backhaul应该监控IPSec隧道。并且，您需要确定什么接口IPSec隧道使用形成隧道。例如; Ethernet2/1是主要连接，并且隧道0是IPSec隧道。

2. 设置环境变量。需要仅某一环境变量，其他部分将是默认值，如果没设置。更多信息可以从读脚本被找到。默认情况下，接口重置完成每360分钟，并且重新加载执行在720分钟，当计时器到期时。

环境变量	说明
bh_iflist	是指回程输脚本将管理的接口。
bhmgr_track_obj_instance	在路由器设置的跟踪对象。此编号必须匹配实例编号。
eem_dbg_level	设置第2启用日志。如果这没有设置，日志不会设置。

例如;

```
event manager environment bh_iflist "eth2/1 tunnel0"
event manager environment bhmgr_track_obj_instance "1"
event manager environment eem_dbg_level "2"
```

3. 配置跟踪对象指向ip秒隧道。使用跟踪1作为此将是为第4步配置在EEM附属程序配置部分时。

例如;

```
track 1 interface tunnel0 line-protocol
delay up 120 down 120
```

4. 请使用此配置跟踪在EEM附属程序的对象1。

例如;

```
event manager applet bhmgrbtdown
event track 1 state down
action 1.0 syslog priority critical msg Backhaul is down
action 2.0 cli tclsh volatile:bhmgr.tcl bhmgr_process_bh_down
action 3.0 cli command maximum-timeout
event manager applet bhmgrbhup
event track 1 state up
action 1.0 syslog priority errors msg Backhaul is up
action 2.0 cli tclsh volatile:bhmgr.tcl bhmgr_process_bh_up
action 3.0 cli command maximum-timeout
```

5. 回程输管理器脚本在CGOS集成和位于可变的分区。如果回程输脚本失踪，请放置bhmgr.tcl在可变的分区。

6. 安排与配置的bhmgr_monitor。一旦这运行，脚本将设置在设置的环境变量第2步。如果环境变量显示没找到，脚本使用默认设置在脚本内设置。

例如;

```
scheduler job name bhmgr_monitor
tclsh volatile:/bhmgr.tcl bhmgr_monitor
```

输出：

```
eem_dbg_level : 2
```

```
eem_dbg_level : 2
```

```
bhmgr_track_obj_instance : 1
```

```
bhmgr_track_obj_instance : 1
```

Environment variable not found

Environment variable not found

7. 安排脚本周期地运行。

例如;

```
scheduler schedule name bhmgr_monitor_schedule
job name bhmgr_monitor
time start now repeat 0:0:10
```

日志输出

当IPSec隧道是UP时，日志输出表示，回程输是UP。当IPSec隧道发生故障时，日志输出显示回程输发生故障。在下来阶段时，计数器开始减少到0和执行路由器的接口或重新加载的重置。如果回程输返回联机，对DEFAULT值的重置计数器。

当IPSec隧道联机时，日志输出显示回程输是UP。当日志输出显示时回程输发生故障，IPSec隧道发生故障。计数器将开始减少：

```
2017 Mar 20 18:36:35 AST05-CGR %EEM_ACTION-3-ERROR: Backhaul is up
2017 Mar 20 18:36:36 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: Backhaul is up
```

```
2017 Mar 20 20:29:02 AST05-CGR %EEM_ACTION-2-CRIT: Backhaul is down
```

```
2017 Mar 20 20:29:40 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 29 mins and 23 sec to BH Reset
2017 Mar 20 20:29:40 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 59 mins and 23 sec to RELOAD
```

一旦BH重置的计数器断开到0，回程输管理器脚本尝试重置接口，当日志输出显示BH被击中时的重置策略：

```
2017 Mar 20 17:43:33 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 7 mins and 57 sec to BH Reset
2017 Mar 20 17:43:33 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 37 mins and 57 sec to RELOAD
2017 Mar 20 17:43:34 AST05-CGR %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on scheduler
2017 Mar 20 17:43:35 AST05-CGR last message repeated 2 times
2017 Mar 20 17:43:35 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 7 mins and 55 sec to BH Reset
2017 Mar 20 17:43:35 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 37 mins and 55 sec to RELOAD
2017 Mar 20 17:53:36 AST05-CGR %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on scheduler
2017 Mar 20 17:53:37 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: BH Reset policy hit
```

2017 Mar 20 17:53:37 AST05-CGR %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on scheduler

2017 Mar 20 17:53:38 AST05-CGR last message repeated 1 time

2017 Mar 20 17:53:38 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: Performing module 2 reload in 30 seconds.

一旦重新加载的计数器断开到0，回程输管理器脚本尝试重新载入路由器，当日志输出显示BH被击中时的重新加载策略：

2017 Mar 20 18:04:18 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 49 mins and 55 sec to BH Reset

2017 Mar 20 18:04:18 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 17 mins and 12 sec to RELOAD

2017 Mar 20 18:04:19 AST05-CGR %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on scheduler

2017 Mar 20 18:04:20 AST05-CGR last message repeated 2 times

2017 Mar 20 18:04:20 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 49 mins and 53 sec to BH Reset

2017 Mar 20 18:04:20 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 17 mins and 10 sec to RELOAD

2017 Mar 20 18:14:21 AST05-CGR %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on scheduler

2017 Mar 20 18:14:22 AST05-CGR last message repeated 2 times

2017 Mar 20 18:14:22 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 39 mins and 51 sec to BH Reset

2017 Mar 20 18:14:23 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 7 mins and 8 sec to RELOAD

2017 Mar 20 18:14:24 AST05-CGR %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on scheduler

2017 Mar 20 18:14:24 AST05-CGR last message repeated 1 time

2017 Mar 20 18:14:24 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 39 mins and 49 sec to BH Reset

2017 Mar 20 18:14:24 AST05-CGR %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on scheduler

2017 Mar 20 18:14:25 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 7 mins and 6 sec to RELOAD

2017 Mar 20 18:24:26 AST05-CGR %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on scheduler

2017 Mar 20 18:24:27 AST05-CGR last message repeated 2 times

2017 Mar 20 18:24:27 AST05-CGR %EEM_ACTION-2-CRIT: bhmgr: 29 mins and 46 sec to BH Reset

2017 Mar 20 18:24:27 AST05-CGR %EEM_ACTION-0-EMERG: BH RELOAD policy hit. Performing reload in 30 seconds