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简介

本文描述可能丰富与NX-OS的故障排除体验的一些快速提示和窍门。

快速十六进制/十二月转换

十六进制代表六十进制，十进制的十二月

执行在一个的多个CLI请去

CLI代表命令行界面

#为太配置工作：

#时间它采取为了CLI能完成：

使用CLI变量

并且能创建您自己的变量：

[CCO参考](#)

自定义终端设置

1) 避免终端会话超时：

2) 设置显示终端的宽度/长度：

当您不希望输出中断到长宽度输出的时，一新的一行来方便

命令的迪莱执行每需要

访问路由Context/VRF's

VRF代表虚拟路由和转发

运行特定的VRF CLI，无需每次添加VRF <>到命令：

运行各自VDC的CLI，当附加对LC：N7k特定

VDC代表虚拟设备上上下文

LC代表线卡

N7K代表连结7000

一旦附加对LC，CLI关于默认VDC或者需要指定运行VDC #相关命令的。

反而您可以运行CLI在VDC #空间正如路由上下文。

示例：

```
module-4# vdc 6 >>>>>> switches LC to pull this VDC specific outputs only
module-4# show hardware mac address-table
FE | Valid| PI| BD | MAC | Index| Stat| SW | Modi| Age| Tmr| GM| Sec| TR| NT| RM|
RMA| Cap| Fld|Always| PV | RD| NN| UC|PI_E8| VIF | SWID| SSWID| LID
| | | | | | | | | | ic | | fied|Byte| Sel| | ure| AP| FY|
| |TURE| | Learn| | | | | | | | | | | |
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
0 1 1 92 0023.ac66.1dc6 0x010c7 1 0x000 0 0 0 1 0 0 0
0 0 0 0 0 0x00 0 0 0 0 0x000 0x000 0x000 0x010c7
0 1 0 91 0019.3074.9c02 0x00414 0 0x009 0 118 2 0 0 0 0
0 0 0 0 0 0x00 1 0 1 0 0x000 0x000 0x000 0x00414
```

反复交换在Linux内核和NX-OS之间没有退出插件的调试

```
N5600-Lab# load dplugg
Loading plugin version 7.1(1)N1(1)
#####
Warning: debug-plugin is for engineering internal use only!
For security reason, plugin image has been deleted.
#####
Successfully loaded debug-plugin!!!
Linux(debug)# vsh >>>> Moves back to NX-OS prompt
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2015, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
```

```
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
N5600-Lab# show clock
20:20:07.468 UTC Mon Apr 04 2016
N5600-Lab# exit >>>> Moves back to Linux prompt
Linux(debug)#
Linux(debug)# clock
Mon Apr 4 20:20:13 2016 -0.282195 seconds UTC
```

NOTE: "Debug Plugin" should only be used in presence of Cisco TAC and is not available for customer use.

Please do not modify any setting unless guided by Cisco TAC.

或者NX-OS CLI能直接地从插件的调试运行：

```
N5600-Lab# load dplugg
Loading plugin version 7.1(1)N1(1)
#####
Warning: debug-plugin is for engineering internal use only!
For security reason, plugin image has been deleted.
#####
Successfully loaded debug-plugin!!!
Linux(debug)# vsh >>>> Moves back to NX-OS prompt
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
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The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
N5600-Lab# show clock
20:20:07.468 UTC Mon Apr 04 2016
N5600-Lab# exit >>>> Moves back to Linux prompt
Linux(debug)#
Linux(debug)# clock
Mon Apr 4 20:20:13 2016 -0.282195 seconds UTC
```

NOTE: "Debug Plugin" should only be used in presence of Cisco TAC and is not available for customer use.

Please do not modify any setting unless guided by Cisco TAC.

装载设置直接地通过VSH

VSH代表虚拟shell

```
NEXUS-LABSWITCH# echo "hostname LAB" | vsh
LAB#
```

```
Mon Apr 4 20:51:14 2016:type=update:id=10.61.236.97@pts/1:user=admin:cmd=echo "hostname LAB" |
vsh (SUCCESS)
Mon Apr 4 20:51:14 2016:type=start:id=vsh.9326:user=admin:cmd=
Mon Apr 4 20:51:14 2016:type=update:id=vsh.9326:user=admin:cmd=configure terminal ; hostname
LAB (SUCCESS)
```

```
LAB# echo "hostname NEXUS-LABSWITCH" | vsh
NEXUS-LABSWITCH#
```

```
Mon Apr 4 20:51:23 2016:type=update:id=10.61.236.97@pts/1:user=admin:cmd=echo "hostname NEXUS-
```

```
LABSWITCH" | vsh (SUCCESS)
Mon Apr  4 20:51:23 2016:type=start:id=vsh.9390:user=admin:cmd=
Mon Apr  4 20:51:23 2016:type=update:id=vsh.9390:user=admin:cmd=configure terminal ; hostname
NEXUS-LABSWITCH (SUCCESS)N5600-Lab# show run | i hostname | sed "s/N5600-Lab/N56128/" | vsh
N56128#
N56128# show accounting log | last 3
Mon Apr  4 21:23:23 2016:type=start:id=vsh.6762:user=admin:cmd=
Mon Apr  4 21:23:23 2016:type=update:id=vsh.6762:user=admin:cmd=configure terminal ; hostname
N56128 (SUCCESS)
Mon Apr  4 21:23:23 2016:type=stop:id=vsh.6762:user=admin:cmd=N5600-Lab# echo "hostname N56128"
> bootflash:CLI
N5600-Lab#
N5600-Lab# show file CLI
hostname N56128
N5600-Lab# show file CLI | vsh
N56128#
```

使用Diff -列出计数器之间的差异

Diff代表差异

```
N5600-Lab# echo "hostname N56128" > bootflash:CLI
N5600-Lab#
N5600-Lab# show file CLI
hostname N56128
N5600-Lab# show file CLI | vsh
N56128#
```

使用观察CLI - N9k特定从7.0(3)I2(x)

N9K代表连结9000

```
N5600-Lab# echo "hostname N56128" > bootflash:CLI
N5600-Lab#
N5600-Lab# show file CLI
hostname N56128
N5600-Lab# show file CLI | vsh
N56128#
```

检查CPU使用情况内部地

CPU代表中央处理器

此命令提供输出的每5秒(能更改)什么进程消耗CPU。它是输出和Linux顶部commnad一样：

```
N5600-Lab# echo "hostname N56128" > bootflash:CLI
N5600-Lab#
N5600-Lab# show file CLI
hostname N56128
N5600-Lab# show file CLI | vsh
N56128#
```

版本内部构建版本

N7k/N9k

```
N5600-Lab# echo "hostname N56128" > bootflash:CLI
N5600-Lab#
N5600-Lab# show file CLI
```

```
hostname N56128  
N5600-Lab# show file CLI | vsh  
N56128#
```

N5k/6k :

```
N5600-Lab# echo "hostname N56128" > bootflash:CLI  
N5600-Lab#  
N5600-Lab# show file CLI  
hostname N56128  
N5600-Lab# show file CLI | vsh  
N56128#
```