

# HX 4.0(2a)前向DNS监控和警报

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## 简介

从HyperFlex 4.0(2a)开始，有一项新的监视程序服务将监控ESXi和SCVM主机名的可分辨性。如果HX无法解析主机名或访问DNS服务器，则监视程序进程会使用show dns命令来发出警报/事件。本文档将介绍CSCvt13947的解决[方法](#) — 在HX连接上，一个或多个DNS服务器未响应，以从运行状况监控中发出DNS警报。

## 先决条件

解决此问题的先决条件是Hyperflex数据平台4.0(2a)。

## 背景信息

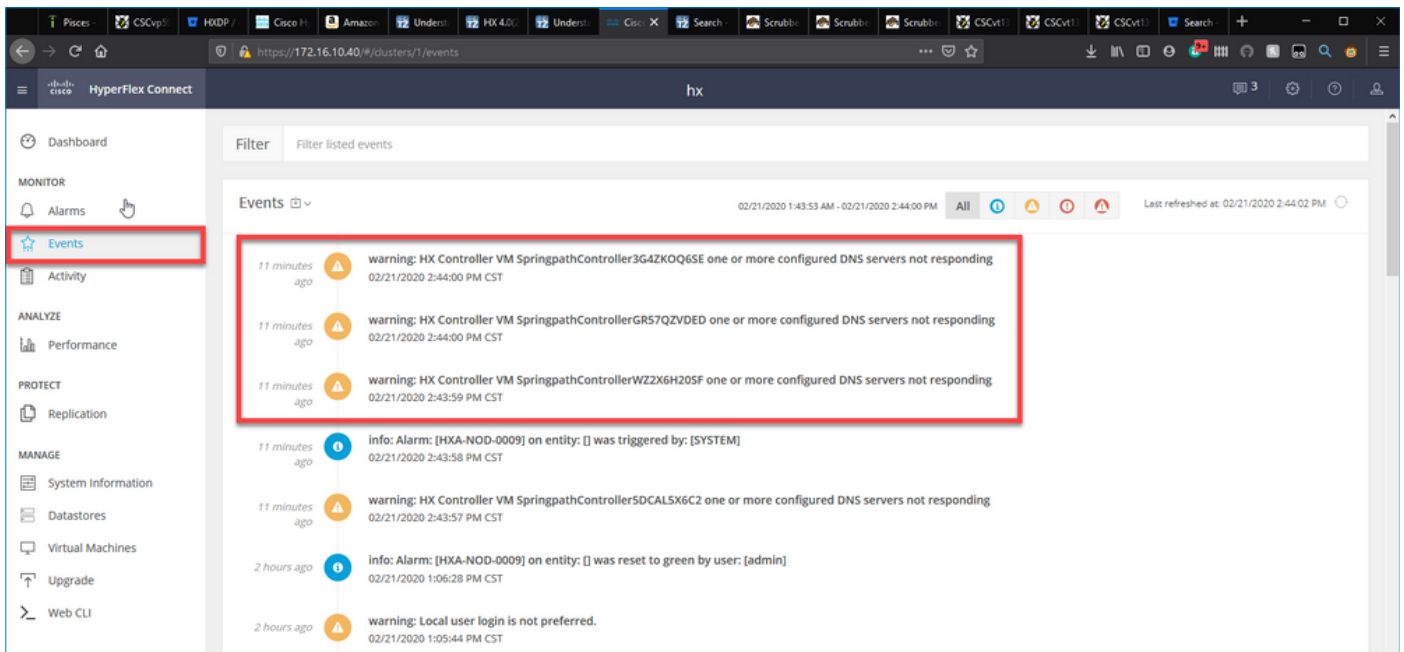
使用此新框架时，esxi主机名和scvm主机名必须在DNS中，才能使此事件触发器。

```
{
  "message": "HX Controller VM {HOSTNAME} one or more configured DNS servers not
responding",
  "type": "NODE",
  "name": "DnsServerOfflineEvent",
  "severity": "warning"
},
```

DNS也有警报：

```
{
  "name": "HXA-NOD-0009",
  "description": "Triggered when one or more configured DNS servers on controller VM cannot
be reached.",
  "category": "warning",
  "message": "One or more DNS servers configured on HX controller VM {HOSTNAME} not
responding",
  "triggeringEvents" : ["DnsServerOfflineEvent"],
  "resetEvents" : ["DnsServerOnlineEvent"]
}
```

以下是您在HX Connect中看到的故障示例：



以下是相应的show dns输出：

```
root@SpringpathController3G4ZKQ6SE:~# show dns
```

```

+-----+-----+-----+-----+
-----+
| DNS Name                               | Resolved Address | status      | error      |
|-----+-----+-----+-----+
-----+
| HX01.rchs.local                         | None             | Not Resolved | No DNS servers
configured |
| HX04.rchs.local                         | None             | Not Resolved | No DNS servers
configured |
| HX03.rchs.local                         | None             | Not Resolved | No DNS servers
configured |
| HX02.rchs.local                         | None             | Not Resolved | No DNS servers
configured |
| SpringpathController3G4ZKQ6SE.rchs.local | None             | Not Resolved | No DNS servers
configured |
| SpringpathController5DCAL5X6C2.rchs.local | None             | Not Resolved | No DNS servers
configured |
| SpringpathControllerWZ2X6H20SF.rchs.local | None             | Not Resolved | No DNS servers
configured |
| SpringpathControllerGR57QZVDED.rchs.local | None             | Not Resolved | No DNS servers
configured |
+-----+-----+-----+-----+
-----+
Name Servers: ['172.16.199.101'], Search Domains: - rchs.local

```

如您所见，每个服务器的状态都为Not Resolved（未解析），错误是No DNS服务器未配置。此输出中的DNS服务器是172.16.199.101。

如果执行nslookup，我们会看到主机名SpringpathController3G4ZKQ6SE未解析。

```
root@SpringpathController5DCAL5X6C2:~# nslookup SpringpathController3G4ZKQ6SE
Server:          172.16.199.101
Address:         172.16.199.101#53
```

```
** server can't find SpringpathController3G4ZKQ6SE: SERVFAIL
```

将show dns命令中的主机名添加到DNS后，show DNS将显示已解析的地址，状态将被解析：

```
root@SpringpathController3G4ZKQ6SE:~# show dns
+-----+-----+-----+-----+
| DNS Name | Resolved Address | status | error |
+-----+-----+-----+-----+
| HX01.rchs.local | 172.16.10.45 | Resolved | - |
| HX04.rchs.local | 172.16.10.48 | Resolved | - |
| HX03.rchs.local | 172.16.10.47 | Resolved | - |
| HX02.rchs.local | 172.16.10.46 | Resolved | - |
| SpringpathController3G4ZKQ6SE.rchs.local | 172.16.10.41 | Resolved | - |
| SpringpathController5DCAL5X6C2.rchs.local | 172.16.10.44 | Resolved | - |
| SpringpathControllerWZ2X6H20SF.rchs.local | 172.16.10.43 | Resolved | - |
| SpringpathControllerGR57QZVDED.rchs.local | 172.16.10.42 | Resolved | - |
+-----+-----+-----+-----+
Name Servers: ['172.16.199.101'], Search Domains: - rchs.local
```

## 解决方法

解决方法是使用以下命令禁用监控功能。

```
root@hx-02-scvm-01:~# grep -i "monitor_dns_servers" /opt/springpath/hx-diag-
tools/watchdog_config.json && sed -ie 's/"monitor_dns_servers": true/"monitor_dns_servers":
false/' /opt/springpath/hx-diag-tools/watchdog_config.json && grep -i "monitor_dns_servers"
/opt/springpath/hx-diag-tools/watchdog_config.json && restart watchdog
    "monitor_dns_servers": true,
    "monitor_dns_servers": false,
watchdog start/running, process 6350
root@hx-02-scvm-01:~#
```

此命令将/opt/springpath/hx-diag-tools/watchdog\_config.json中的“*monitor\_dns\_servers*”设置为false并重新启动监视程序服务。

要恢复更改，请在每个存储控制器VM上运行以下命令：

```
root@hx-02-scvm-01:~# grep -i "monitor_dns_servers" /opt/springpath/hx-diag-
tools/watchdog_config.json && sed -ie 's/"monitor_dns_servers": false/"monitor_dns_servers":
true/' /opt/springpath/hx-diag-tools/watchdog_config.json && grep -i "monitor_dns_servers"
/opt/springpath/hx-diag-tools/watchdog_config.json && restart watchdog
    "monitor_dns_servers": false,
    "monitor_dns_servers": true,
watchdog start/running, process 9473
root@hx-02-scvm-01:~#
```

在Hyperflex 4.0(2b)中，默认情况下禁用此功能。建议在进一步通知之前将其禁用。