

# HX 4.0(2a)升級DNS監控和警報

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## 簡介

從HyperFlex 4.0(2a)開始，新的監視程式服務將監視ESXi和SCVM主機名的可解析性。如果HX無法解析主機名或到達DNS伺服器，監視程式會使用show dns命令來發出警報/事件。本文檔將介紹 [CSCvt13947](#)的解決方法 — 一個或多個DNS伺服器在HX連線上未響應來自運行狀況監控的DNS警報。

## 必要條件

解決此問題的先決條件是Hyperflex資料平台4.0(2a)。

## 背景資訊

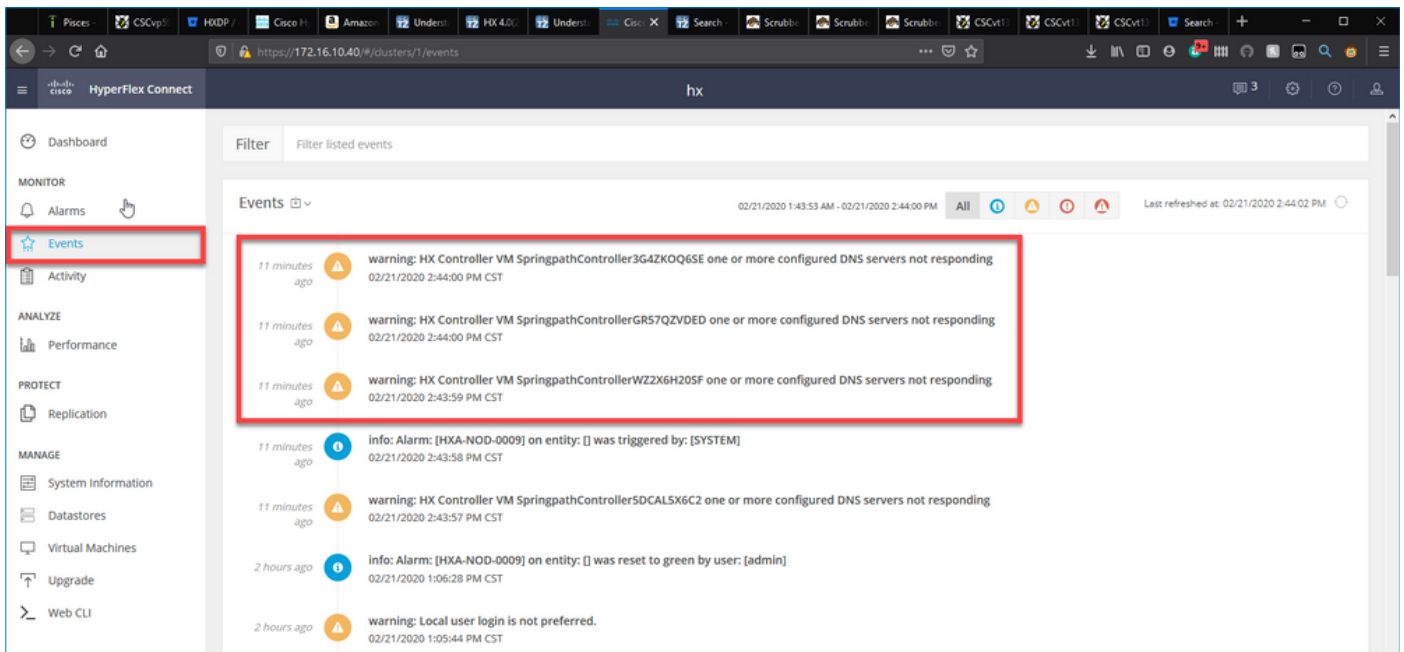
在此新框架中，esxi主機名和scvm主機名必須位於DNS中，才能不觸發此事件。

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

DNS周圍也存在警報：

```
{
  "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HX Connect中出現的故障的示例：



以下是對應的show dns輸出：

```

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

```

您可以看到，每個伺服器的狀態均為未解析，錯誤是未配置DNS伺服器。此輸出中的DNS伺服器是172.16.199.101。

如果執行nslookup，我們會看到主機名SpringpathController3G4ZKQ6SE無法解析。

```

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

** server can't find SpringpathController3G4ZKQ6SE: SERVFAIL

```

將show dns命令中的主機名新增到DNS後，show DNS將顯示已解析的地址，狀態將為Resolved:

```
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
```

## 因應措施

解決方法是使用以下命令禁用監視功能。

```
root@hx-02-scvms-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-scvms-01:~#
```

此命令將在/opt/springpath/hx-diag-tools/watchdog\_config.json中將「*monitor\_dns\_servers*」設置為false並重新啟動監視程式服務。

要恢復更改，請在每個儲存控制器VM上運行以下命令：

```
root@hx-02-scvms-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-scvms-01:~#
```

在Hyperflex 4.0(2b)中，此功能預設會停用。建議是在進一步通知之前保持禁用。