

Nexus 7000:瞭解和修復ARP探測消息

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概觀

本文檔旨在幫助瞭解和修復錯誤消息的原因。

```
2013 Oct 25 15:23:17 N7K %ARP-3-DUP_VADDR_SRC_IP_PROBE: arp [4650] Duplicate address
Detected. Probe packet received from 34bd.c8a3.ce30 on Vlan99(port-channel46) with destination
set to our local Virtual ip, 10.10.10.1
2013 Oct 25 15:23:35 N7K %ARP-3-DUP_SRC_IP_PROBE: arp [4650] Duplicate address Detected.
Probe packet received from 34bd.c8a3.ce30 on Vlan109(port-channel46) with destination set to
our local ip, 10.10.10.2
```

什麼是ARP探測？

ARP探測是使用全零傳送方IP地址構造的ARP請求。該術語用於IPv4地址衝突檢測規範(RFC 5227)。在開始使用IPv4地址 (無論是通過手動配置、DHCP還是其他某種方式接收的) 之前，實施此規範的主機必須通過廣播ARP探測資料包，測試以檢視地址是否已在使用中。[8]

疑難排解

這些ARP探測由屬於該Vlan中沒有SVI的交換機的Mac地址傳送。

進一步調查後，這些是運行IP裝置跟蹤功能的IOS裝置傳送的ARP探測資料包。

以下是資料包的Ethanalyzer捕獲示例：

```
N7K# ethanalyzer local interface inband capture-filter "ether src 34:bd:c8:a3:ce:30 and arp and
host 10.10.10.2" detail
Capturing on inband
Frame 1 (60 bytes on wire, 60 bytes captured)
  Arrival Time: Oct 25, 2013 15:28:59.577664000
    [Time delta from previous captured frame: 0.000000000 seconds]
    [Time delta from previous displayed frame: 0.000000000 seconds]
    [Time since reference or first frame: 0.000000000 seconds]
  Frame Number: 1
  Frame Length: 60 bytes
  Capture Length: 60 bytes
  [Frame is marked: False]
  [Protocols in frame: eth:arp]
Ethernet II, Src: 34:bd:c8:a3:ce:30 (34:bd:c8:a3:ce:30), Dst: c0:62:6b:ae:03:c1
(c0:62:6b:ae:03:c1)
```

```

Destination: c0:62:6b:ae:03:c1 (c0:62:6b:ae:03:c1)
  Address: c0:62:6b:ae:03:c1 (c0:62:6b:ae:03:c1)
    .... ..0 .... = IG bit: Individual address (unicast)
    .... ..0 .... = LG bit: Globally unique address (factory default)
Source: 34:bd:c8:a3:ce:30 (34:bd:c8:a3:ce:30)
  Address: 34:bd:c8:a3:ce:30 (34:bd:c8:a3:ce:30)
    .... ..0 .... = IG bit: Individual address (unicast)
    .... ..0 .... = LG bit: Globally unique address (factory default)
Type: ARP (0x0806)
Trailer: 00000000000000000000000000000000
Address Resolution Protocol (request)
  Hardware type: Ethernet (0x0001)
  Protocol type: IP (0x0800)
  Hardware size: 6
  Protocol size: 4
  Opcode: request (0x0001)
  [Is gratuitous: False]
  Sender MAC address: 34:bd:c8:a3:ce:30 (34:bd:c8:a3:ce:30)
  Sender IP address: 0.0.0.0 (0.0.0.0)
  Target MAC address: c0:62:6b:ae:03:c1 (c0:62:6b:ae:03:c1)
  Target IP address: 10.10.10.2 (10.10.10.2)

```

因應措施

某些IOS交換機現在預設啟用IP裝置跟蹤功能

要解決此問題，您可以在從以下裝置進入nexus的物理介面上禁用IPDT:

附註：不能全域性禁用，必須為每個介面執行此操作。如果這是埠通道，您應在埠通道邏輯介面而不是物理介面上配置此設定。

```

IOSswitch(config)# no ip device tracking
% IP device tracking is disabled at the interface level by removing the relevant configs
IOSswitch(config)# interface gil/0/1
IOSswitch(config-if)# ip device tracking maximum 0
IOSswitch(config-if)# end

```

在搭載3.2.3SE的3850上，以下組態會停用該功能：

```

3850(config)# interface gil/0/1
3850(config-if)# ip device tracking maximum 1 3850(config-if)# NMSP attach suppress 3850(config-if)# end 3850# wr mem

```

在搭載3.3.3SE的3850上，以下組態將停用該功能(ip device tracking max 0 works now):

```

3850(config)# interface gil/0/1
3850(config-if)# ip device tracking maximum 0 3850(config-if)# NMSP attach suppress 3850(config-if)# end 3850# wr mem

```

參考錯誤

[CSCud96554](#) 抑制系統日誌%ARP-3-DUP_VADDR_SRC_IP_PROBE

[CSCu120441](#) 在6.2(2)中取消系統日誌%ARP-3-DUP_VADDR_SRC_IP_PROBE