

This article describes how to troubleshoot the Cisco WAAS Auto Deploy feature.

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Cisco WAAS Auto Deploy Troubleshooting

Cisco WAAS Auto Deploy and Auto Registration Enhancements simplify network deployment of WAN optimization in branches, and greatly reduces dependency physical configuration.

NOTE: The Auto Deploy feature was introduced in WAAS version 5.1.1. This section is not applicable to earlier WAAS versions.

Verifying DNS Configuration

Verify the following DNS queries can be made from a PC in the WAAS Network range:

- DNS "SRV" query for `_waascms._tcp.customerdomain.com`
 - ◆ If fails, "SRV" query for `_waascms._tcp.customerdomain.com`

The above SRV query should return the "A" (Host) record of the WAAS Central Manager. Verify that this record can also be resolved.

```

aaedward-mbp:~ aaedward$ nslookup
> set type=SRV
> _waascms._tcp.adbu.local
Server:      2.8.3.2
Address:     2.8.3.2#53

_waascms._tcp.adbu.local      service = 0 100 8443 pod3-cm.adbu.local.
> set type=A
> pod3-cm.adbu.local
Server:      2.8.3.2
Address:     2.8.3.2#53

Name:   pod3-cm.adbu.local
Address: 2.8.30.100
>

```

Debugging Auto Deploy

If Cisco WAAS Auto Deploy succeeds, the following messages should be seen in the syslog.txt file:

```

2012 Nov 15 08:26:01 NO-HOSTNAME dhclient: %WAAS-DHCP-5-191000: DHCPDISCOVER on eth0 to 255.255.255.255: port 67, length 232
2012 Nov 15 08:26:01 NO-HOSTNAME dhclient: %WAAS-DHCP-5-191000: DHCPOFFER from 7.1.247.49
2012 Nov 15 08:26:06 NO-HOSTNAME dhclient: %WAAS-DHCP-5-191000: DHCPREQUEST on eth0 to 255.255.255.255: port 67, length 120
2012 Nov 15 08:26:06 NO-HOSTNAME dhclient: %WAAS-DHCP-5-191000: DHCPACK from 7.1.247.49
2012 Nov 15 08:26:06 NO-HOSTNAME %WAAS-DHCP-5-191000: Script called with reason: BOUND
2012 Nov 15 08:26:06 NO-HOSTNAME %WAAS-DHCP-5-191000: Configuring hostname: FIT1-OFF2-574
2012 Nov 15 08:26:06 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring new IP address: 7.1.247.50 255.255.255.255
2012 Nov 15 08:26:06 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring default gateway: 7.1.247.49
2012 Nov 15 08:26:06 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring domain name myfit.local
2012 Nov 15 08:26:06 FIT1-OFF2-574 cfg_bin_ip_domainname: %WAAS-CLI-5-170053: Recreated etc_hosts
2012 Nov 15 08:26:06 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring nameserver:7.1.240.10
2012 Nov 15 08:26:07 FIT1-OFF2-574 kernel: %WAAS-SYS-4-900000: process `dig' is using obsolete setsockopt
2012 Nov 15 08:26:11 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Enabling CMS with CDM: fit1-cml.myfit.local
2012 Nov 15 08:26:11 FIT1-OFF2-574 cfg_bin_autoreg_runcms: %WAAS-AUTOREG-5-111020: Primary interface: eth0
2012 Nov 15 08:26:11 FIT1-OFF2-574 cfg_bin_autoreg_runcms: %WAAS-AUTOREG-5-111024: Central Manager IP: 7.1.240.10

```

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If Cisco WAAS Auto Deploy fails, debugging can be done via the console connection.

To enable debugging, issue the following commands:

```
NO-HOSTNAME#debug dhcp
NO-HOSTNAME#config t
NO-HOSTNAME(config)#logging console enable
NO-HOSTNAME(config)#logging console priority debug
```

Once debugging is enabled, toggle Auto Deploy off, then back on.

```
NO-HOSTNAME#config t
NO-HOSTNAME(config)#no auto-register enable
NO-HOSTNAME(config)#auto-register enable
```

After toggling Auto Deploy, debug messages should be printed to syslog.txt:

```
2012 Oct 8 07:04:25 FIT1-OFF2-574 config: %WAAS-PARSER-6-350232: CLI_LOG log_cli_command: auto-re
FIT1-OFF2-574(config)#2012 Oct 8 07:04:25 FIT1-OFF2-574 dhclient: %WAAS-DHCP-3-191000: teql0: unk
2012 Oct 8 07:04:25 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Script called with reason: PREINIT
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-3-191000: teql0: unknown hardware address
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 000: 01 01 06 00 ae 97 26 53 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 010: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 020: 7d 1c 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 030: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 040: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 050: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 060: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 070: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 080: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 090: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0a0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0b0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0c0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0d0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0e0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0f0: 35 01 03 36 04 07 01 f7 31
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 100: 06 01 03 0f 06 0c 2b 3c 08
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 110: 4e 3d 08 43 49 53 43 4f 43
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 120: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-5-191000: DHCPREQUEST on eth0 to 255.255.2
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-5-191000: DHCPACK from 7.1.247.49
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Script called with reason: REBOOT
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring hostname: FIT1-OFF2-574
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring new IP address: 7.1.247.50 255
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring default gateway: 7.1.247.49
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring domain name: myfit.local
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring nameserver: 7.1.240.10
2012 Oct 8 07:04:27 FIT1-OFF2-574 Nodemgr: %WAAS-NODEMGR-5-330084: [Nodemgr_Admin] requests resta
2012 Oct 8 07:04:27 FIT1-OFF2-574 Nodemgr: %WAAS-NODEMGR-5-330032: Stopping service: 'nscd'.
2012 Oct 8 07:04:27 FIT1-OFF2-574 Nodemgr: %WAAS-NODEMGR-5-330036: Stop service 'nscd' using: '/r
2012 Oct 8 07:04:27 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Enabling CMS with CDM: cml.myfit.local.
2012 Oct 8 07:04:27 FIT1-OFF2-574 cfg_bin_autoreg_runcms: %WAAS-AUTOREG-5-111020: Primary interfa
2012 Oct 8 07:04:27 FIT1-OFF2-574 cfg_bin_autoreg_runcms: %WAAS-AUTOREG-5-111022: Device is alrea
```