

How to Troubleshoot RME 3.1/3.2 and CM 3.0/3.1 Failure on Solaris

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Introduction

Prerequisites

Requirements

Components Used

Conventions

Symptoms

Reason

Workaround

NetPro Discussion Forums – Featured Conversations

Related Information

Introduction

This document provides information about Common Object Request Broker Architecture (CORBA)–based applications. This document tells how to overcome the failure these CORBA–based applications experience on the Sun Microsystems Solaris operating system.

Note: The information in this document is only applicable for the Solaris versions of CISCOWORKS Resource Manager Essentials versions 3.1 and 3.2, and CISCOWORKS Campus Manager versions 3.0 and 3.01.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Symptoms

CORBA–based applications such as CiscoWorks Campus Manager, Cisco Syslog Analysis, Update Archive, and cwconfig fail to work on Solaris if `localhost` is the first entry in `/etc/hosts`.

This error messages displays in the `/var/adm/CSCOpX/log/daemons.log` file:

```
-----  
SyslogAnalyzer Info: host=rscand-nms port=42342 server=LogSvr  
LsSClient custom object created
```

```

LSSClient object created SyslogAnalyzer- Wed Apr 21 10:40:20 EDT 1999 2 Initializing DmgtD
924705620332 April 21, 1999 10:40:20 AM ChangeProbeSupplier localhost Error EDSSY0012:
924705620369 April 21, 1999 10:40:20 AM ChangeProbeSupplier localhost Error EDSSY0012:
...
...
...
NMCS:Kicking off new device updates ...
924705623054 April 21, 1999 10:40:23 AM CfgChangeProbe localhost Error EDSAT0001: Unabl
924705623270 April 21, 1999 10:40:23 AM CfgChangeProbe localhost Error EDSAT0001: Unabl
924705623307 April 21, 1999 10:40:23 AM CfgChangeProbe localhost Error EDSAT0001: Unabl
924705623372 April 21, 1999 10:40:23 AM CfgChangeProbe localhost Error EDSSY0012: Unabl
924705623423 April 21, 1999 10:40:23 AM CfgChangeProbe localhost Error EDSSY0012: Unabl
...
-----

```

Reason

CORBA-based applications fail on Solaris because of Solaris bug #4185755.

Java Development Kit (JDK) bug #4163652/4073539 describes how `java.net.InetAddress.getLocalHost()` in JDK releases earlier than 1.2.2 returns the first line in `/etc/hosts` instead of the correct host under these circumstances:

- When `nsd` (name service) does not run
- If `files` is the first source for hosts in `/etc/nsswitch.conf` (see workaround step 2).

In many cases, `localhost` is the first entry under `/etc/hosts`, and is returned as the result of `InetAddress.getLocalHost`. This causes CORBA services such as `GateKeeper` to receive traffic directed to the localhost (loopback address). It fails because the client application uses the Domain Name System (DNS) primary IP address to connect to the server.

Workaround

To avoid Solaris failures, take these steps:

1. Make sure the first entry in `/etc/hosts` is the hostname of the machine (not localhost).

Example:

```

=====
#
# Internet host table
#
100.1.1.1 fred.cisco.com
127.0.0.1 localhost loghost
... ..
=====

```

2. Make sure the `/etc/nsswitch.conf` file specifies the word `files` before `dns`.

Example:

```

=====
#
# /etc/nsswitch.files:
#
# An example file that could be copied over to /etc/nsswitch.conf; it
# does not use any naming service.
#
# "hosts:" and "services:" in this file are used only if the

```

```
# /etc/netconfig file has a "-" for nametoaddr_libs of "inet" transports.
passwd: files
group: files
hosts: files dns
networks: files
protocols: files
... ..
=====
```

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