

IBM Tivoli Software



Introduction to IBM Tivoli Directory Server 6.0 – Debugging

Excerpt taken from presentation given on April 10, 2007
Explore methods to debug a failed IBM Tivoli Directory Server instance creation

Support Technical Exchange Web site
http://www-306.ibm.com/software/sysmgmt/products/support/supp_tech_exch.html

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Basic Debugging – Failed Instance Creation

The `idsicrt` utility provides us with the functionality to trace a failed instance creation and configuration attempt.

```
idsicrt [-l instancename [-e encryptseed] [-p port] [-s  
secureport] [-a admpport] [-c admsecureport] [-t dbinstance]  
[-C] [-i ipaddress] [-l instlocation] [-r description] [-d  
debuglevel] [-b outputfile] [-q] [-n]] | -v | -?
```

So using our example from our previous example we would run:

```
#ldtrc on
```

```
#idsicrt -l nativein -e seedfornativein -p 10389 -s 10636 -a 3550  
-c 3553 -t nativein -l /home/nativein -d 65535 -b  
/tmp/idsicrt.out
```



Basic Debugging – Failed Instance Creation

Common instance creation errors

Cannot create additional instance because of invalid IP address

On AIX, Linux, Solaris, and HP-UX systems, if you have two IP addresses configured, and you try to configure two directory server instances that use the two IP addresses, you might receive an error.



Basic Debugging – Failed Instance Creation

For example, assume that you have IP addresses 9.42.40.67 and 9.42.40.125 configured, and you use the following commands to create directory server instances that use these IP addresses:

```
# idsicrt -I svtinst3 -i 9.42.40.67
```

```
# idsicrt -I svtinst4 -i 9.42.40.125
```

You might receive an error message like this one when you try to create the second instance:

```
[root@tvt5067 root]# idsicrt -I svtinst4 -i 9.42.40.125 GLPCTL062E  
The specified IP Address '9.42.40.125' is not a valid IP address for  
this machine.
```



Basic Debugging – Failed Instance Creation

The problem might be one of the following:

The Host IP addresses file does not have the correct entry for the second IP address.

For example, on Linux systems, the `/etc/hosts` file must have the second IP entry in the correct format. For example: `9.48.181.173 mymachine.mylocation.ibm.com mymachine`

The system settings must be such that the system first checks the Host IP addresses file instead of performing a DNS lookup. The setting in the operating system Name service switch file must be changed to perform Host IP resolution lookup before going to the DNS.



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