Subject: remote execution of idl script
Posted by trisb on Wed, 17 Jun 2015 10:09:00 GMT

Hello IDL hive mind,

after going through the post archives, I could not find a suitable solution to my problem, so here comes a new thread.

I have an IDL script file ~/hw.isc that contains only
print,"Hello world"

Now I want to execute this IDL script (or command, to start with) from the shell of a remote computer. My IDL version is 8.3 and I am operating under a UNIX system. If I do the following, it works:

ssh remote_server_name
idl -e "@~/hw.isc"

It correctly starts IDL, prints "Hello world", and exits.

Now I want to have that as a batch execution from my home server and want to use a one-liner:

ssh remote_server_name 'idl -e "@~/hw.isc"'

What happens is that it logs into the remote server, starts IDL, but hangs upon startup after the license server is loaded. No X commands are used in the script nor the startup file. The result is the same if I use -X, -Y, or >& outfile in the IDL call command to redirect screen output.

Thanks for your help!
Flo.

Subject: Re: remote execution of idl script
Posted by Lajos Foldy on Wed, 17 Jun 2015 12:51:10 GMT

On Wednesday, June 17, 2015 at 12:09:05 PM UTC+2, trisb wrote:
> Hello IDL hive mind,
>
> after going through the post archives, I could not find a suitable solution to my problem, so here comes a new thread.
>
> I have an IDL script file ~/hw.isc that contains only
> print,"Hello world"
>
> Now I want to execute this IDL script (or command, to start with) from the shell of a remote computer. My IDL version is 8.3 and I am operating under a UNIX system. If I do the following, it

works:
>
> ssh remote_server_name
> idl -e "@~/hw.isc"
>
> It correctly starts IDL, prints "Hello world", and exits.
>
> Now I want to have that as a batch execution from my home server and want to use a one-liner:
>
> ssh remote_server_name 'idl -e "@~/hw.isc"'
>
> What happens is that it logs into the remote server, starts IDL, but hangs upon startup after the license server is loaded. No X commands are used in the script nor the startup file. The result is the same if I use -X, -Y, or >& outfile in the IDL call command to redirect screen output.
>
> Thanks for your help!
> Flo.

Try "ssh ... idl hw.isc' (and append "exit" to hw.isc).

regards,
Lajos

Subject: Re: remote execution of idl script
Posted by trisb on Wed, 17 Jun 2015 13:39:17 GMT
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Hello Lajos,

thanks for your suggestion. However,

ssh remote_server_name 'idl hw.isc'

leads to the same hung-up idl session as outlined in the original post.

Best,
Flo.

Subject: Re: remote execution of idl script
Posted by trisb on Wed, 17 Jun 2015 13:45:54 GMT
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Hello Lajos,

thanks for your suggestion. However,

ssh remote_server_name 'idl hw.isc'

leads to the same hung-up idl session as outlined in the original post. Edit: Same when adding 'exit' in the script.

Best,
Flo.

Subject: Re: remote execution of idl script
Posted by trisb on Wed, 17 Jun 2015 13:48:01 GMT
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Hi Lejos,

thanks for your suggestion. However,

ssh remote_server_name 'idl hw.isc'

ends up in the same stalled IDL session as the original command. Same when adding 'exit' to the script

Best,
Flo

Subject: Re: remote execution of idl script
Posted by Lajos Foldy on Wed, 17 Jun 2015 14:48:33 GMT
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On Wednesday, June 17, 2015 at 3:48:02 PM UTC+2, trisb wrote:
> Hi Lejos,
>
> thanks for your suggestion. However,
>
> ssh remote_server_name 'idl hw.isc'
>
> ends up in the same stalled IDL session as the original command. Same when adding 'exit' to the script
>
> Best,
> Flo

Works for me:

gandalf:~> ssh frodo 'cat hw.isc'

```
print, "Hello world!"
exit
```

```
gandalf:~> ssh frodo 'idl hw.isc'
IDL Version 8.4.1 ...
```

```
Hello world!
gandalf:~>
```

What is in your hw.isc?

regards,
Lajos

Subject: Re: remote execution of idl script
Posted by trisb on Wed, 17 Jun 2015 14:55:56 GMT
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This is my hw.isc:
```
-----
print,"Hello world"
exit
-----
```

This is the output from running

ssh remote_server_name 'idl hw.isc'

once it stalls:
```
-----
IDL Version 8.3 (linux x86_64 m64). (c) 2013, Exelis Visual Information Solutions, Inc.
Installation number: [redacted]
Licensed for use by: [redacted]

-----
```

I also tried to ssh into the host server/headnode, but it results in the same problem.

Thanks,
Flo.

Subject: Re: remote execution of idl script
Posted by Lajos Foldy on Wed, 17 Jun 2015 15:20:07 GMT
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On Wednesday, June 17, 2015 at 4:55:59 PM UTC+2, trisb wrote:
> This is my hw.isc:
> -----
> print,"Hello world"
> exit
> -----
>
> This is the output from running
>
> ssh remote_server_name 'idl hw.isc'
>
> once it stalls:
> -----
> IDL Version 8.3 (linux x86_64 m64). (c) 2013, Exelis Visual Information Solutions, Inc.
> Installation number: [redacted]
> Licensed for use by: [redacted]
>
> -----
>
> I also tried to ssh into the host server/headnode, but it results in the same problem.
>
> Thanks,
> Flo.

Is there any IDL_STARTUP file on the remote host?

What does "ssh remote_server_name 'cat hw.isc'" print?

If it is OK and the remote host is Linux, you can try

   ssh remote_server_name 'strace idl hw.isc'

This will print a zillion lines but you will see where IDL stalls at the end.

I can not guess your setup problem without access to the system. Show my previous working example to your IDL or system admin.

regards,
Lajos

Subject: Re: remote execution of idl script
Posted by trisb on Wed, 17 Jun 2015 15:33:08 GMT
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Thanks, Lajos.

Displaying hw.isc with cat worked and seems normal. However, doing strace resulted in

-----
strace: idl: command not found

I guess I will have to go to the sysadmin eventually.

Best,
Flo.

Subject: Re: remote execution of idl script
Posted by Nigel Wade on Wed, 17 Jun 2015 15:49:24 GMT
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On 17/06/15 16:20, fawltylanguage@gmail.com wrote:
> On Wednesday, June 17, 2015 at 4:55:59 PM UTC+2, trisb wrote:
>> This is my hw.isc:
>> -----
>> print,"Hello world"
>> exit
>> -----
>>
>> This is the output from running
>>
>> ssh remote_server_name 'idl hw.isc'
>>
>> once it stalls:
>> -----
>> IDL Version 8.3 (linux x86_64 m64). (c) 2013, Exelis Visual Information Solutions, Inc.
>> Installation number: [redacted]
>> Licensed for use by: [redacted]
>>
>> -----
>>
>> I also tried to ssh into the host server/headnode, but it results in the same problem.

Is it IDL which is hanging or ssh?

Try adding an additional command after idl to see if IDL exits, and ssh hangs.
If IDL exits then it's definitely something to do with the ssh environment rather than IDL.

It may also be X causing the problem, so get rid of X and unset DISPLAY:

ssh -x remote_server_name 'unset DISPLAY;idl hw.isc;ls'

If IDL exits it should list your files.

>>
>> Thanks,
>> Flo.
>
> Is there any IDL_STARTUP file on the remote host?
>
> What does "ssh remote_server_name 'cat hw.isc'" print?
>
> If it is OK and the remote host is Linux, you can try
>
>   ssh remote_server_name 'strace idl hw.isc'
>
> This will print a zillion lines but you will see where IDL stalls at the end.
>

You can't strace IDL, it's a script.

Subject: Re: remote execution of idl script
Posted by trisb on Wed, 17 Jun 2015 15:57:23 GMT
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On Wednesday, June 17, 2015 at 4:49:27 PM UTC+1, Nigel Wade wrote:
> On 17/06/15 16:20, fawltylanguage@gmail.com wrote:
>> On Wednesday, June 17, 2015 at 4:55:59 PM UTC+2, trisb wrote:
>>> This is my hw.isc:
>>> -----
>>> print,"Hello world"
>>> exit
>>> -----
>>>
>>> This is the output from running
>>>
>>> ssh remote_server_name 'idl hw.isc'
>>>
>>> once it stalls:
>>> -----
>>> IDL Version 8.3 (linux x86_64 m64). (c) 2013, Exelis Visual Information Solutions, Inc.
>>> Installation number: [redacted]
>>> Licensed for use by: [redacted]
>>>
>>> -----
>>>
>>> I also tried to ssh into the host server/headnode, but it results in the same problem.
>
> Is it IDL which is hanging or ssh?
>
> Try adding an additional command after idl to see if IDL exits, and ssh hangs.

> If IDL exits then it's definitely something to do with the ssh environment rather than IDL.
>
> It may also be X causing the problem, so get rid of X and unset DISPLAY:
>
> ssh -x remote_server_name 'unset DISPLAY;idl hw.isc;ls'
>
> If IDL exits it should list your files.

Thanks for the suggestion, Nigel. It stalls at the same point as before, ls is not being executed.

Subject: Re: remote execution of idl script
Posted by Lajos Foldy on Wed, 17 Jun 2015 16:08:13 GMT
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On Wednesday, June 17, 2015 at 5:49:27 PM UTC+2, Nigel Wade wrote:

> You can't strace IDL, it's a script.

Have you tried it? :-) The idl command is a shell script and it uses the shell's built-in exec to run the actual binary. The binary simply replaces the shell, no new process is created. strace works just fine.

regards,
Lajos

Subject: Re: remote execution of idl script
Posted by Nigel Wade on Thu, 18 Jun 2015 12:40:56 GMT
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On 17/06/15 17:08, fawltylanguage@gmail.com wrote:
> On Wednesday, June 17, 2015 at 5:49:27 PM UTC+2, Nigel Wade wrote:
>
>> You can't strace IDL, it's a script.
>
> Have you tried it? :-) The idl command is a shell script and it uses the shell's built-in exec to run the actual binary. The binary simply replaces the shell, no new process is created. strace works just fine.
>

I didn't actually. I was sure I'd tried this in the past when tracing problems and found it didn't work because idl is a
script.
However, when I do try it it works as advertised.

"Memory fault, core dumped"

Subject: Re: remote execution of idl script
Posted by Nigel Wade on Fri, 19 Jun 2015 08:26:19 GMT

On 17/06/15 16:57, trisb wrote:
>> Is it IDL which is hanging or ssh?
>>>
>>> Try adding an additional command after idl to see if IDL exits, and ssh hangs.
>>> If IDL exits then it's definitely something to do with the ssh environment rather than IDL.
>>>
>>> It may also be X causing the problem, so get rid of X and unset DISPLAY:
>>>
>>> ssh -x remote_server_name 'unset DISPLAY;idl hw.isc;ls'
>>>
>>> If IDL exits it should list your files.
> Thanks for the suggestion, Nigel. It stalls at the same point as before, ls is not being executed.
>

That makes me think that there's something different about how the idl command is working on that remote system.
Also, the fact that Lajos suggestion to use strace fails to locate the idl command adds weight to this.

Do you know how the idl command is configured on that system?

Subject: Re: remote execution of idl script
Posted by trisb on Tue, 23 Jun 2015 12:07:44 GMT

On Friday, June 19, 2015 at 9:26:20 AM UTC+1, Nigel Wade wrote:
> On 17/06/15 16:57, trisb wrote:
>>> Is it IDL which is hanging or ssh?
>>>>
>>>> Try adding an additional command after idl to see if IDL exits, and ssh hangs.
>>>> If IDL exits then it's definitely something to do with the ssh environment rather than IDL.
>>>>
>>>> It may also be X causing the problem, so get rid of X and unset DISPLAY:
>>>>
>>>> ssh -x remote_server_name 'unset DISPLAY;idl hw.isc;ls'
>>>>
>>>> If IDL exits it should list your files.
>> Thanks for the suggestion, Nigel. It stalls at the same point as before, ls is not being executed.
>>
>
> That makes me think that there's something different about how the idl command is working on that remote system.
> Also, the fact that Lajos suggestion to use strace fails to locate the idl command adds weight to

this.
>
> Do you know how the idl command is configured on that system?

Thanks. Indeed, it was a problem with how the idl call related to the execution of idl. Problem solved with help of the sys admin.

Flo.