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## Error 0x80bb0005 while executing Process on Windows Guest

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### Error 0x80bb0005 while executing Process on Windows Guest

by [Skalden](#) » 18. Sep 2015, 08:04

Hi!

Im currently trying to build a process that'll start up a Virtual Machine, opens the IE with a specific Adress and makes a Screenshot. I got the complete code running, but I'm simply not able to create the process on the Guest machine.

Code: [Select all](#) [Expand view](#)[Collapse view](#)

```

ISession session = mgr.getSessionObject();
machine.lockMachine(session, LockType.Shared);

IConsole console = session.getConsole();
IGuest guest = console.getGuest();
Long time = 50L;
IGuestProcess gp = null;

System.out.println("Logging into Guest System");

IGuestSession gs = guest.createSession("IEUser", "Passw0rd!", "", "");

System.out.println("Hoping to be accepted...");

GuestSessionWaitResult result = gs.waitFor(1L, time);

if(result == GuestSessionWaitResult.Start){
    System.out.println("Guest Session is " + gs.getStatus());
    System.out.println("Got accepted!");

    Adress = "\"" + Adress + "\"";
    System.out.println("Starting IE with Adress: " + Adress);
    String iexplore = "\"C:\\Program Files\\Internet Explorer\\iexplore.exe\"";
    //String iexplore = "\"C:\\Program/ Files\\Internet/ Explorer\\iexplore.exe\"";
    //String iexplore = "C:\\Program/ Files\\Internet/ Explorer\\iexplore.exe";
    System.out.println("Console Call will be: " + iexplore + " " + Adress);

    List<String> arguments = new ArrayList<>();
    arguments.add(Adress);

    gp = gs.processCreate(iexplore, arguments, null, null, 0L);
    System.out.println("Started the process");

    List<IGuestProcess> gps = new ArrayList<>();
    gps = gs.getProcesses();
    for(int i=0;i<gps.size();i++){
        IGuestProcess gp_foo = gps.get(i);
        System.out.print("Name: " + gp_foo.getName() + " ");
        System.out.print("Ex. Path: " + gp_foo.getExecutablePath() + " ");
        System.out.print("PID: " + gp_foo.getPID() + " ");
        System.out.println("Status: " + gp_foo.getStatus());
    }
}

```

```

List<ProcessWaitForFlag> foo = new ArrayList<>();
foo.add(ProcessWaitForFlag.Start);

ProcessWaitResult waitResult = gp.waitForArray(foo, 0L);
if(waitResult == ProcessWaitResult.Start){
    System.out.println("Process Load finished");
}
}
}

```

I just never starts the Internet Explorer, the process state is always in error and the program exits with an exception thrown:

Code: [Select all](#) [Expand view](#)[Collapse view](#)

```

Exception in thread "main" org.virtualbox_5_0.VBoxException: The function "waitForArray" returned an error condition: "The
specified file is an invalid name" (0x80bb0005)
    at org.virtualbox_5_0.IProcess.waitForArray(IProcess.java:165)
    at
virtualbox_local_getscreenfromurl.VirtualBox_Local_GetScreenFromUrl.openURLinIEandSaveToPath(VirtualBox_Local_GetScreenFromUrl.java:
    at virtualbox_local_getscreenfromurl.VirtualBox_Local_GetScreenFromUrl.main(VirtualBox_Local_GetScreenFromUrl.java:56)
Caused by: org.mozilla.xpcom.XPCOMException: The function "waitForArray" returned an error condition: "The specified file is an
invalid name" (0x80bb0005)
    at org.mozilla.xpcom.internal.XPCOMJavaProxy.callXPCOMMethod(Native Method)
    at org.mozilla.xpcom.internal.XPCOMJavaProxy.invoke(XPCOMJavaProxy.java:143)
    at com.sun.proxy.$Proxy11.waitForArray(Unknown Source)
    at org.virtualbox_5_0.IProcess.waitForArray(IProcess.java:160)
    ... 2 more
Java Result: 1

```

I checked for the existence of that file, tried to execute it via "start iexplore http://....", but the same error 😞  
 I also tried to start other programs, like cmd.exe - no success either.

Hope you can help out!

PS: I'm using the Windows 7 Developer VM from Microsoft with IE8 preinstalled.

[Skalden](#)

**Posts:** 9

**Joined:** 18. Sep 2015, 07:49

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## [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [noteirak](#) » 18. Sep 2015, 09:11

More a warning than an error, you seem to not have notice that waitTime in [IGuestSession::waitFor\(eventId,waitTime\)](#) is in milliseconds, and not seconds. Waiting 5 milliseconds is a bit short 😊

I would also recommend to use the [GuestSessionWaitForFlag](#) Enum instead of the int value, makes it easier to read later on. That means switching to [IGuestSession::waitForArray\(\)](#)

You do not wait for the process to start at [IGuestSession::processCreate\(\)](#) - instead you use null (4th arg). You should instead use [ProcessCreateFlag\\_WaitForProcessStartOnly](#): this allow you to use the timeout value (5th arg) for a start timeout instead of a process execution time limit. This also gives you a nice blocking wait until the process is created (but not running!)  
 Finally, at [IProcess.waitForArray\(\)](#), you should really use a good timeout and not just 0.

VBox 5.0.x (at time of writting) is a bit tricky on this compared to 4.x and a change at [processCreate\(\)](#) is simply not documented.  
 In 5.0, the 1st argument of [processCreate\(\)](#) is actually some labeling (maybe in ps output?) for the process. You need to put that value in the 2nd argument as well. You can omit the 1st argument (give it null) and the first string given in the 2nd argument will be used. So you don't need to repeat anything.

I have no good experience with starting Windows process that will need to interact with the desktop but you might also need to adapt the environment variable for the session or the process.  
 More on that later if you need it.

Finally, quotes should not be used AFAIK and might confuse the processing.

To sum it up, this is how you would do it :

Code: [Select all](#) [Expand view](#)[Collapse view](#)

```

ISession session = mgr.getSessionObject();
machine.lockMachine(session, LockType.Shared);

IConsole console = session.getConsole();
IGuest guest = console.getGuest();
Long time = 50 *1000L; // let's make it 50 seconds
IGuestProcess gp = null;

```

```

System.out.println("Logging into Guest System");

IGuestSession gs = guest.createSession("IEUser", "Passw0rd!", "", "");

System.out.println("Hoping to be accepted...");

GuestSessionWaitResult result = gs.waitForArray(Arrays.asList(GuestSessionWaitForFlag.Start), time); // let's use
waitForArray to be clear

if(result == GuestSessionWaitResult.Start){
    System.out.println("Guest Session is " + gs.getStatus());
    System.out.println("Got accepted!");

    System.out.println("Starting IE with Address: " + Address);
    String iexplore = "C:\\Program Files\\Internet Explorer\\iexplore.exe";
    System.out.println("Console Call will be: " + iexplore + " " + Address);

    List<String> arguments = new ArrayList<>();
    arguments.add(iexplore);
    arguments.add(Address);

    gp = gs.processCreate(null, arguments, null, Arrays.asList(ProcessCreateFlag.WaitForProcessStartOnly), time);
    System.out.println("Created the process"); // reworded syso to make it clear where we're at

    List<IGuestProcess> gps = new ArrayList<>();
    gps = gs.getProcesses();
    for(int i=0;i<gps.size();i++){
        IGuestProcess gp_foo = gps.get(i);
        System.out.print("Name: " + gp_foo.getName() + " ");
        System.out.print("Ex. Path: " + gp_foo.getExecutablePath() + " ");
        System.out.print("PID: " + gp_foo.getPID() + " ");
        System.out.println("Status: " + gp_foo.getStatus());
    }

    List<ProcessWaitForFlag> foo = new ArrayList<>();
    foo.add(ProcessWaitForFlag.Start);

    ProcessWaitResult waitResult = gp.waitForArray(foo, time); // again, use a valid timeout
    if(waitResult == ProcessWaitResult.Start){
        System.out.println("Process Load finished");
    }
}
}

```

I did not check the code for syntax error, so please forgive any mistakes. And of course, you'll most likely need to fix your imports  
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[noteirak](#)

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## [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [Skalden](#) » 18. Sep 2015, 09:53

Thank you for the fast Reply!

I changed the way you described it. Now the process seems to start, but the GuestProcess doesn't seem to load completely, so there is no IE window, when I take the screenshot. It just seems to ignore the waitFor.

[Skalden](#)

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**Joined:** 18. Sep 2015, 07:49

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## [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [noteirak](#) » 18. Sep 2015, 09:56

What is the process state after the `waitFor()`? Also, did you check if the process is running in the guest via the task manager?

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### [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [noteirak](#) » 18. Sep 2015, 10:04

And of course, beware of the following [known limitation](#):

*User Manual wrote:* Guest control. On Windows guests, a process launched via the guest control execute support will not be able to display a graphical user interface unless the user account under which it is running is currently logged in and has a desktop session.

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### [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [Skalden](#) » 18. Sep 2015, 10:22

The VM is running in GUI Mode, so the Frontend is there. Im Logged into the machine as the same user, as with the guest session.

After the `waitFor` it is in "Start".

The Taskmanager didn't show any new process

[Skalden](#)

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### [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [noteirak](#) » 18. Sep 2015, 10:31

Try to run a ping command instead (with a valid ip) and see if the process start.

If yes, then the issue is with IE and the environment.

If no, then we need to dig further but later today for me.

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## [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [Skalden](#) » 18. Sep 2015, 11:17

I run the ping command. But it seems that the piping to the file does not work. And the gp.read method delivers something back, but i can't decode the byte arrays ad hoc.

But I had the Taskmanager open and there was definety the PING.exe for the currently logged in user. So that worked (kind of)

Edit: The CodeSnippet I used to run the Ping command

Code: [Select all](#) [Expand view](#)[Collapse view](#)

```
public static void ping(VirtualBoxManager mgr, IMachine machine, String address) {
    ISession session = mgr.getSessionObject();
    machine.lockMachine(session, LockType.Shared);
    IConsole console = session.getConsole();
    IGuest guest = console.getGuest();
    Long time = 50000L;
    IGuestProcess gp = null;

    System.out.println("Logging into Guest System");

    IGuestSession gs = guest.createSession("IEUser", "Passw0rd!", "", "");

    System.out.println("Hoping to be accepted...");
    //gs.waitFor(1L, time);

    List<GuestSessionWaitForFlag> gswff = new ArrayList<>();
    gswff.add(GuestSessionWaitForFlag.Start);
    GuestSessionWaitResult result = gs.waitForArray(gswff, time);

    if(result == GuestSessionWaitResult.Start){
        System.out.println("Guest Session is " + gs.getStatus());
        System.out.println("Got accepted!");

        List<String> arguments = new ArrayList<>();
        arguments.add("C:\\Windows\\System32\\PING.exe");
        arguments.add(address);
        //arguments.add("-t");
        //arguments.add(">");
        //arguments.add("C:\\file.txt");

        List<ProcessCreateFlag> pcf = new ArrayList<>();
        pcf.add(ProcessCreateFlag.WaitForProcessStartOnly);
        gp = gs.processCreate(null, arguments, null, pcf, time);

        System.out.println("Started the process");

        List<IGuestProcess> gps = new ArrayList<>();
        gps = gs.getProcesses();
        for(int i=0;i<gps.size();i++){
            IGuestProcess gp_foo = gps.get(i);
            System.out.print("Name: " + gp_foo.getName() + " ");
            System.out.print("Ex. Path: " + gp_foo.getExecutablePath() + " ");
            System.out.print("PID: " + gp_foo.getPID() + " ");
            System.out.println("Status: " + gp_foo.getStatus());
        }

        List<ProcessWaitForFlag> pwff = new ArrayList<>();
        pwff.add(ProcessWaitForFlag.Start);

        ProcessWaitResult waitResult = gp.waitForArray(pwff, time);
        System.out.println(waitResult);
        if(waitResult == ProcessWaitResult.Start){
            String out = new String();
            while(gp.getStatus() == ProcessStatus.Started){
                byte [] foo = gp.read(0L, 4096L, time);
                out = out + new String(foo);
            }
            System.out.println(out);
        }
    }
}
```

[Skalden](#)

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## [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [noteirak](#) » 18. Sep 2015, 11:41

Ok then that confirms you need the right environment for IE to start it.

Guest session and guest processes are very bare "areas" where even regular environment variables are not set since it's not start with the desktop. All these IE expectations will need to be fulfilled. It could also be a permissions problem...

So all in all, many things can go wrong. I personally can't help further with specific matters of GUI applications on Windows, lacking experience and knowledge. But go with the pointers I gave you. I would expect it to be very similar to having a service or a scheduled task trying to interact with the desktop.

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### [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [Skalden](#) » 18. Sep 2015, 11:59

*noteirak wrote:* But go with the pointers I gave you. I would expect it to be very similar to having a service or a scheduled task trying to interact with the desktop.

That made the "click"!

I created a VBScript, what basically just started the IE with the Adress as parameter - and it worked fine! Thank you so much!

[Skalden](#)

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### [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [noteirak](#) » 18. Sep 2015, 15:12

Glad it clicked and you found a solution!

Could it be possible for you to share the VBScript to make this topic complete and be a reference in the future for people trying the same? Thank you!

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### [Re: Error 0x80bb0005 while executing Process on Windows Gues](#)

by [Skalden](#) » 23. Sep 2015, 08:39

To use the script, you execute the cscript command with the scriptname and the URL as parameter.

Code: [Select all](#) [Expand view](#)[Collapse view](#)

```
Set objArgs = wscript.Arguments
Set WshShell = WScript.CreateObject("WScript.Shell")
Return = WshShell.Run("iexplore.exe " & objArgs(0), 1)
WScript.sleep 10000
```

[Skalden](#)

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