



JAVA Settings for Higher Security Levels with CEM



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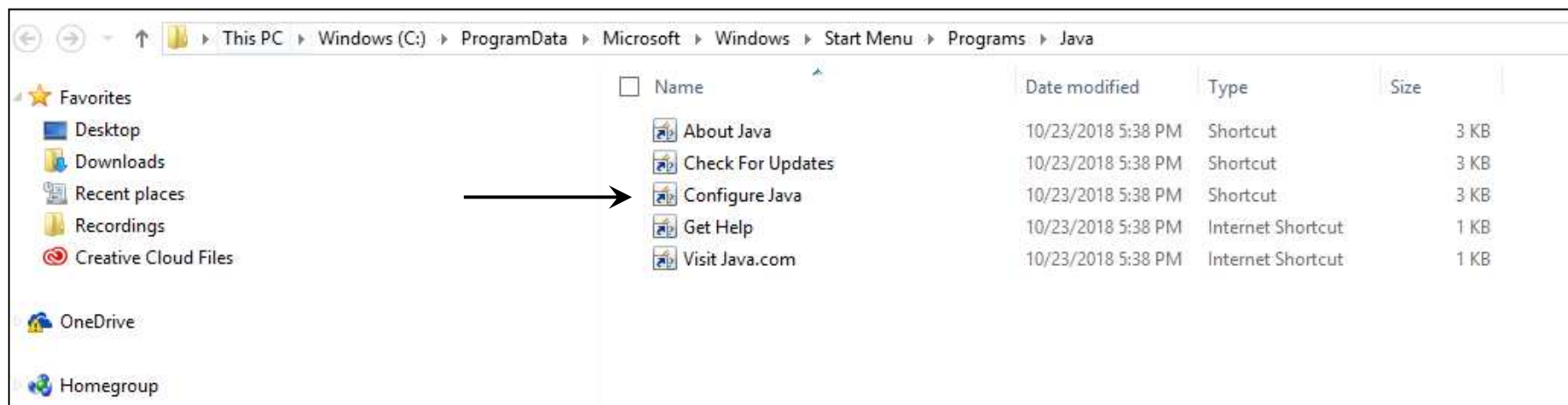
- These instructions cover the steps to configure the later versions of JAVA, with higher security settings, to allow the required applets to run when using CEM.
- The steps shown were performed using Windows 8.
- For Windows operating systems other than Windows 8, the screens may look slightly different, but the basic steps are the same.



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Step 1

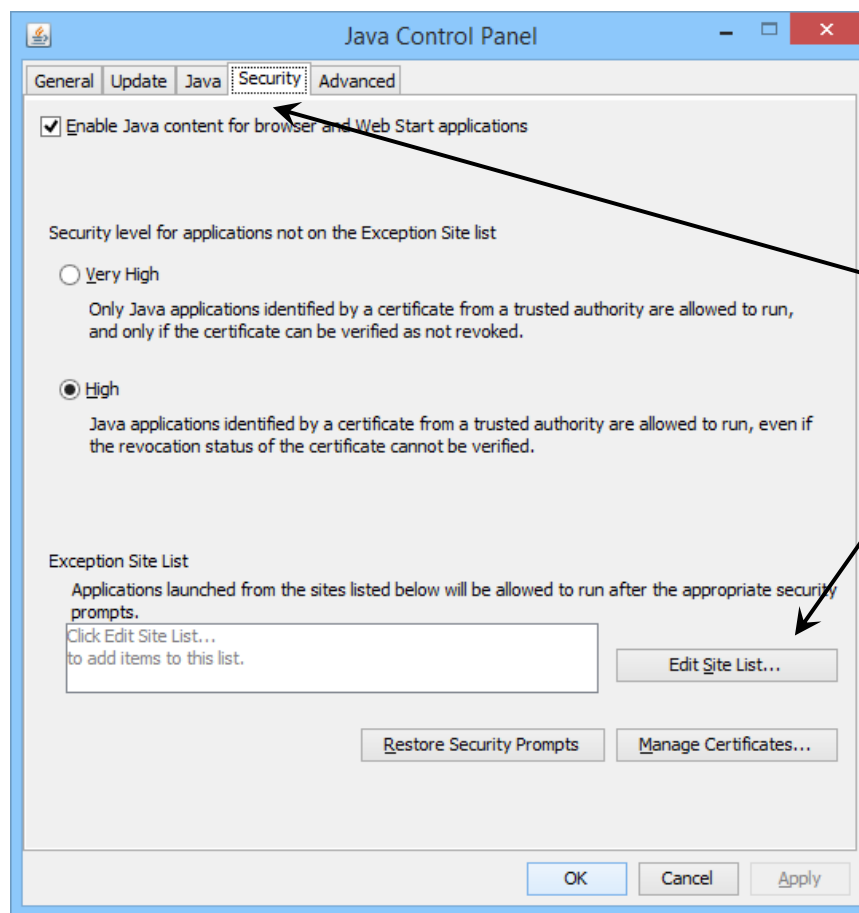
Search for, and open the “Configure Java” file.





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Step 2

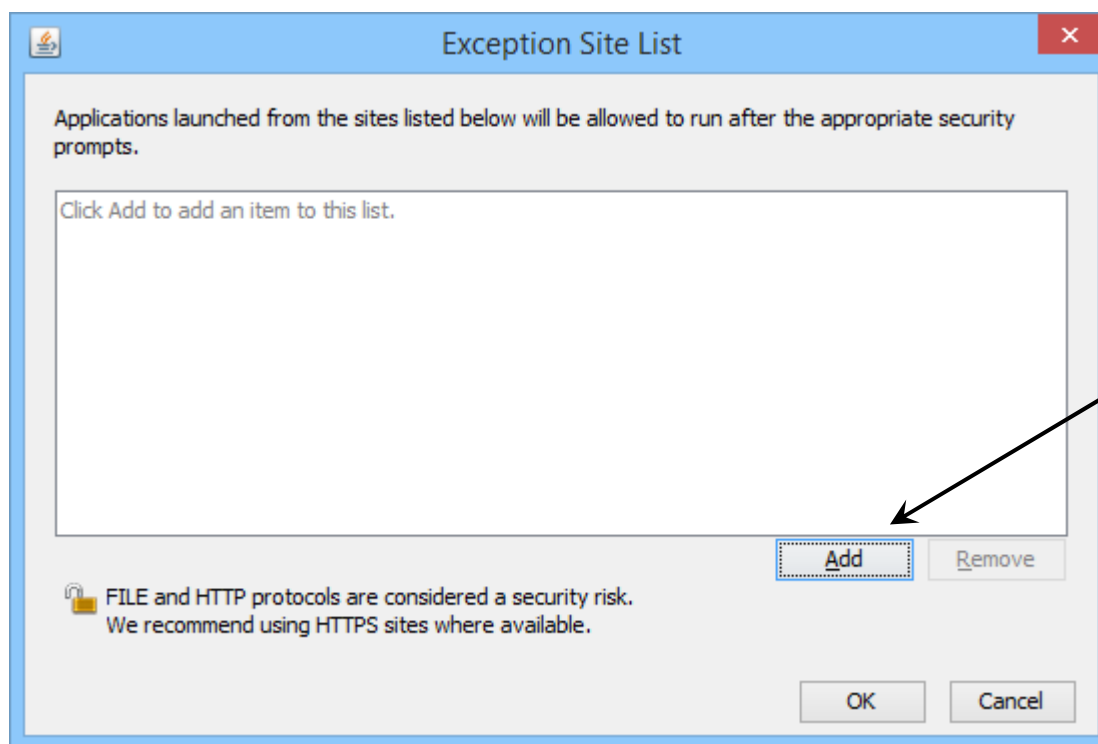


Click on the "Security" tab, then click on the "Edit Site List..." button.



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Step 3

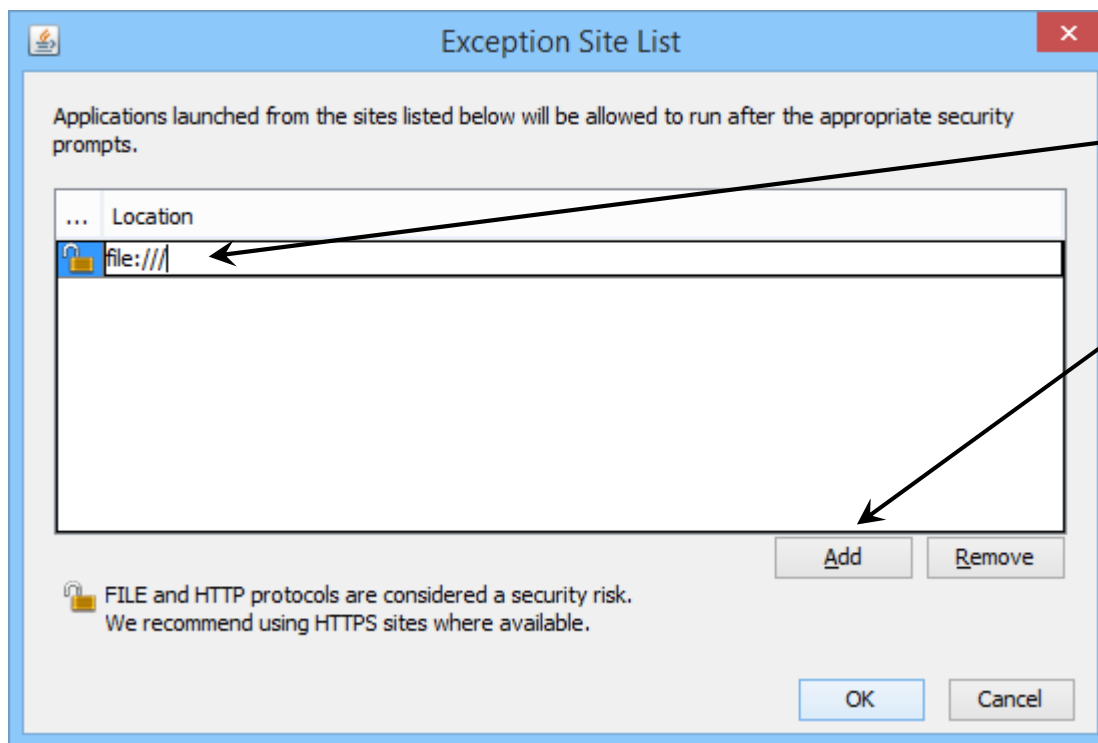


Click on the "Add" button.



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Step 4

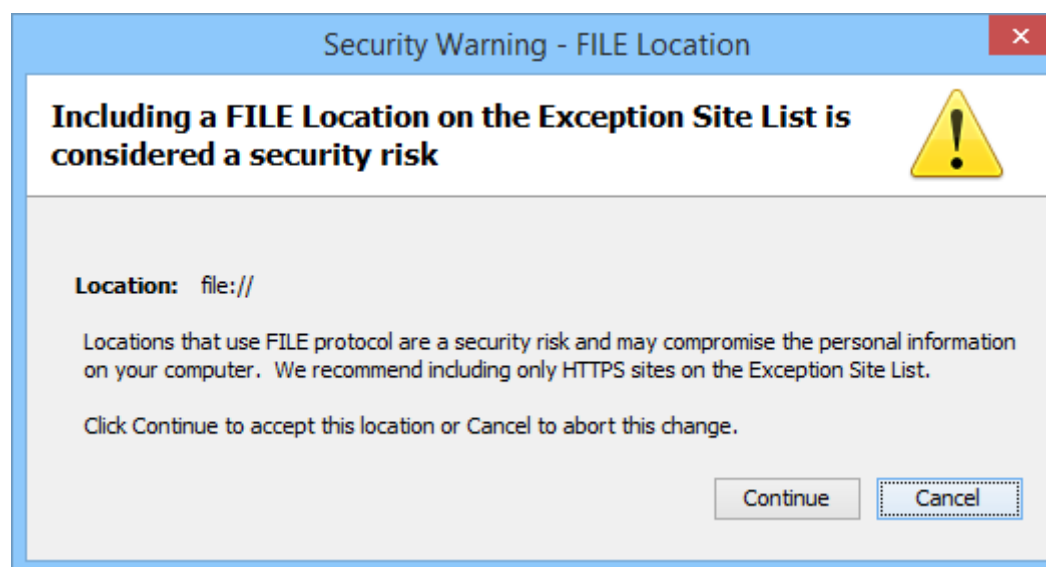


Enter "file:///" as shown, then click the "Add" button



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Step 5

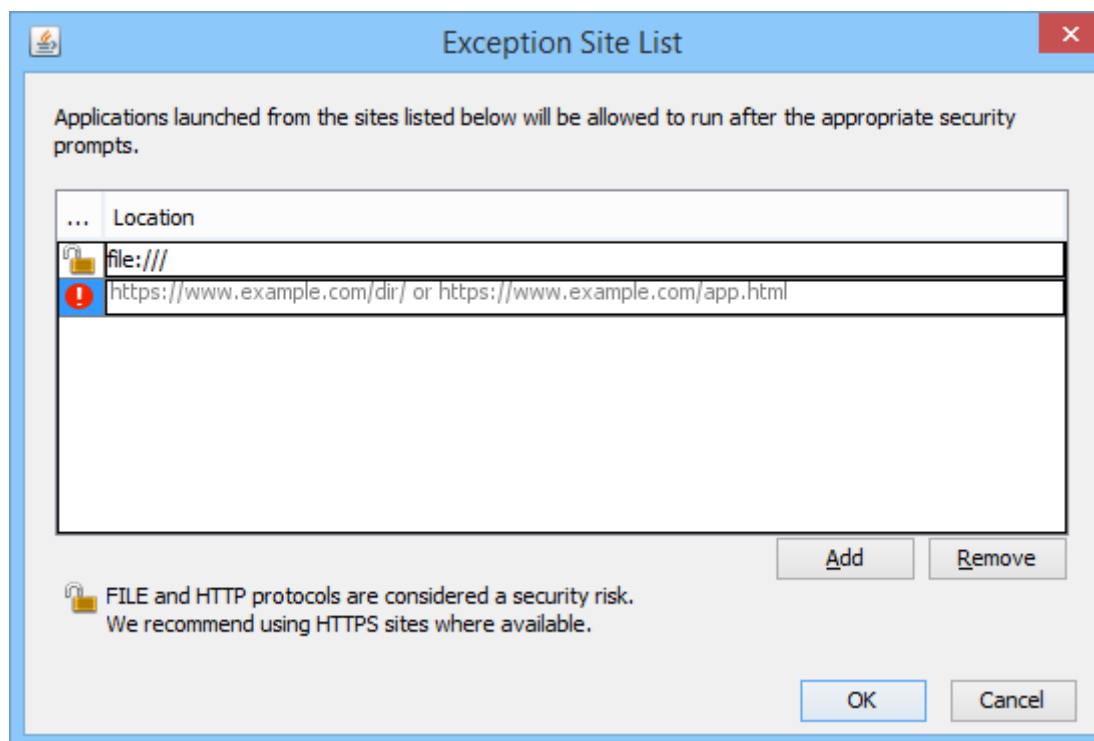


Review info and click “Continue” when ready.



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Step 6



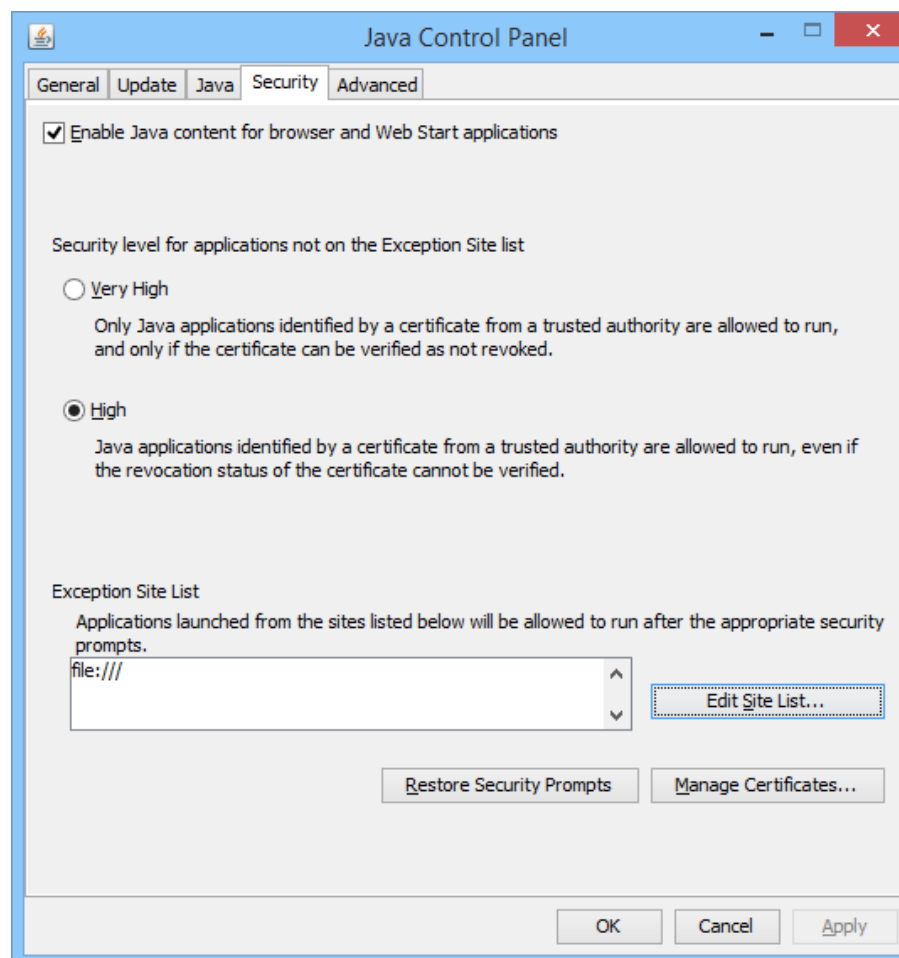
Click "OK" when ready.



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Step 7

Click "OK" when ready.





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Step 8

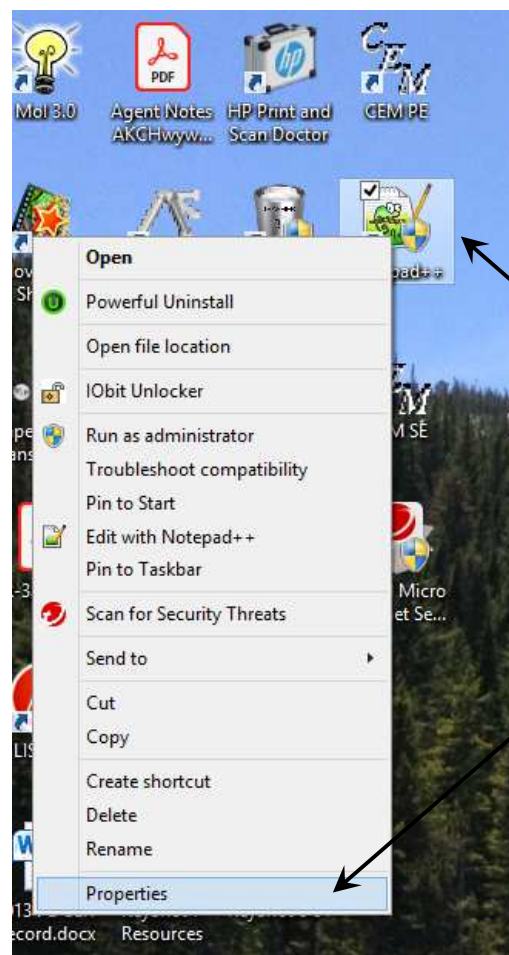
The next step will be to edit a file named “java.policy”. There may be several ways to accomplish this, but the method we used (and shown here) was with a program called Notepad++. This program is a free download, and can be found at the this link:

<https://notepad-plus-plus.org>



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Step 9

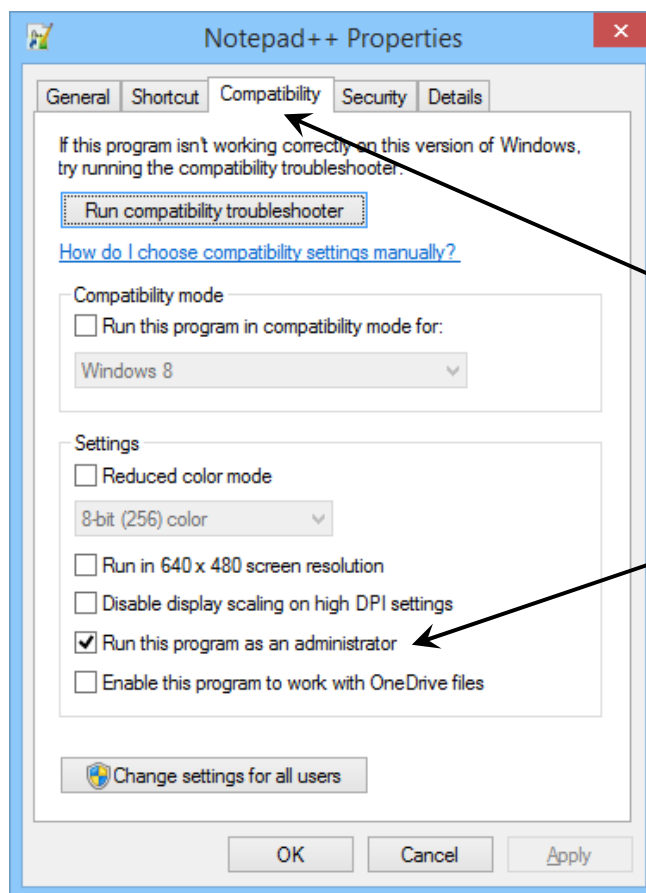


Right click on the Notepad++ icon, and select "Properties"



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Step 10



Select the “Compatibility tab, and check the “Run this program as an administrator.

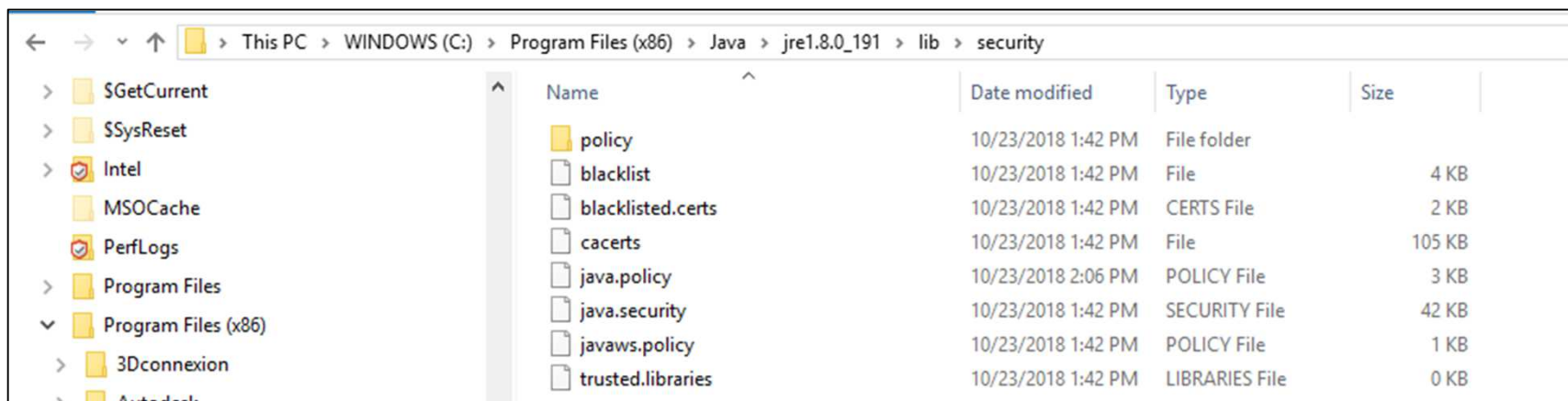
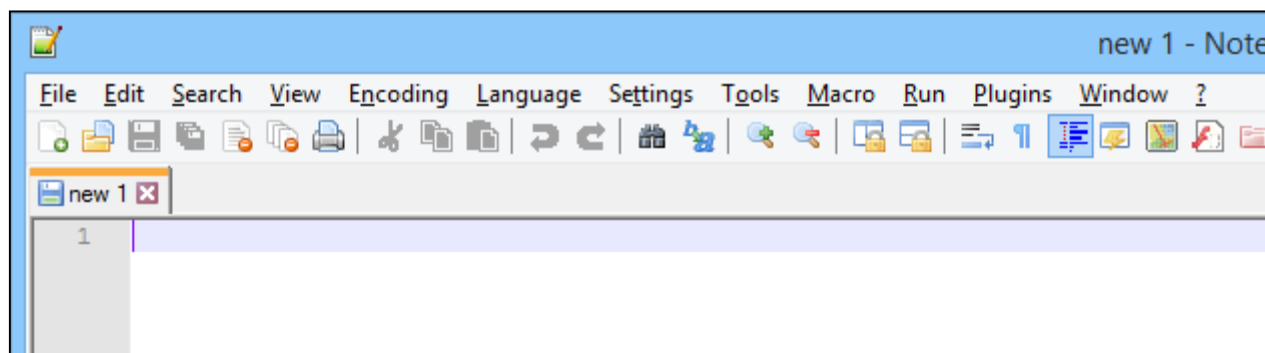
Click “OK” when ready.



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Step 11

Open Notepad++, and open the “java.policy” file from within Notepad++.





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Step 12

```
*C:\Program Files (x86)\Java\jre1.8.0_191\lib\security\java.policy -
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
java.policy
6  };
7
8  // default permissions granted to all domains
9
10 grant {
11     // Allows any thread to stop itself using the java.lang.Thread.stop()
12     // method that takes no argument.
13     // Note that this permission is granted by default only to remain
14     // backwards compatible.
15     // It is strongly recommended that you either remove this permission
16     // from this policy file or further restrict it to code sources
17     // that you specify, because Thread.stop() is potentially unsafe.
18     // See the API specification of java.lang.Thread.stop() for more
19     // information.
20     permission java.lang.RuntimePermission "stopThread";
21
22     // allows anyone to listen on dynamic ports
23     permission java.net.SocketPermission "localhost:0", "listen";
24
25     // "standard" properties that can be read by anyone
26
27     permission java.util.PropertyPermission "java.version", "read";
28     permission java.util.PropertyPermission "java.vendor", "read";
29     permission java.util.PropertyPermission "java.vendor.url", "read";
30     permission java.util.PropertyPermission "java.class.version", "read";
31     permission java.util.PropertyPermission "os.name", "read";
32     permission java.util.PropertyPermission "os.version", "read";
33     permission java.util.PropertyPermission "os.arch", "read";
34     permission java.util.PropertyPermission "file.separator", "read";
35     permission java.util.PropertyPermission "path.separator", "read";
36     permission java.util.PropertyPermission "line.separator", "read";
37
38     permission java.util.PropertyPermission "java.specification.version", "read";
39     permission java.util.PropertyPermission "java.specification.vendor", "read";
40     permission java.util.PropertyPermission "java.specification.name", "read";
41
42     permission java.util.PropertyPermission "java.vm.specification.version", "read";
43     permission java.util.PropertyPermission "java.vm.specification.vendor", "read";
44     permission java.util.PropertyPermission "java.vm.specification.name", "read";
45     permission java.util.PropertyPermission "java.vm.version", "read";
46     permission java.util.PropertyPermission "java.vm.vendor", "read";
47     permission java.util.PropertyPermission "java.vm.name", "read";
48
49     permission java.io.FilePermission "C:/Program files (x86)/Veri-Tech/-", "read";
50
51 };
Normal text file length: 2,551 lines: 52
```

Scroll down to the bottom of the “grant” section, and add the new permission line shown. (The text string is on the following slide for cut & paste).

← Save the file when done.



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Step 13

java.policy Text String

```
permission java.io.FilePermission "C:/Program files (x86)/Veri-Tech/-", "read";
```



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Step 14

When CEM is opened, this Security Warning will pop up. Click “Run” to allow the Java applets to work with CEM.

