**Building Solr (v4.5.1)**  
Solr source package downloaded from:  
<https://archive.apache.org/dist/lucene/solr/4.5.1/>  
  
Set ant environment:

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| C:\solr-build\solr-4.5.1>type ..\setenv.bat  @echo off  set JAVA\_HOME=C:\jdk-8u74-windows-x64  set ANT\_HOME=C:\apache-ant-1.10.1  set PATH=%ANT\_HOME%\bin;%JAVA\_HOME%\bin;%PATH% |

1st attempt:

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| C:\solr-build\solr-4.5.1> **ant compile** … ivy-fail:  [echo]  [echo] This build requires Ivy and Ivy could not be found in your ant classpath.  [echo] …  [echo] 'ant ivy-bootstrap' will install a copy of Ivy into your Ant User Library:  [echo] C:\Users\jcdc/.ant/lib  … BUILD FAILED  C:\solr-build\solr-4.5.1\build.xml:108: The following error occurred while executing this line:  C:\solr-build\solr-4.5.1\lucene\build.xml:234: The following error occurred while executing this line:  C:\solr-build\solr-4.5.1\lucene\common-build.xml:373: The following error occurred while executing this line:  C:\solr-build\solr-4.5.1\lucene\common-build.xml:410: Ivy is not available |

2nd attempt:

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| C:\solr-build\solr-4.5.1> **ant ivy-bootstrap** … ivy-bootstrap1:  [mkdir] Created dir: C:\Users\jcdc\.ant\lib  [echo] installing ivy 2.3.0 to C:\Users\jcdc\.ant\lib  [get] Getting: http://repo1.maven.org/maven2/org/apache/ivy/ivy/2.3.0/ivy-2.3.0.jar  [get] To: C:\Users\jcdc\.ant\lib\ivy-2.3.0.jar … **ant compile** … compile:  BUILD SUCCESSFUL  Total time: 16 minutes 39 seconds |

**Note:** This does not automatically build the Solr Velocity plugin (solr-velocity-xxx.jar). To build this:

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| C:\solr-build\tmp\solr-4.5.1>  cd solr\contrib\velocity **ant** …  BUILD SUCCESSFUL  Total time: 1 minute 9 seconds … dir /s /b solr-velocity\* C:\solr-build\tmp\solr-4.5.1\solr\build\contrib\solr-velocity\**solr-velocity-4.5.1-SNAPSHOT.jar** |

*JeremyC 5-6-2018***END**