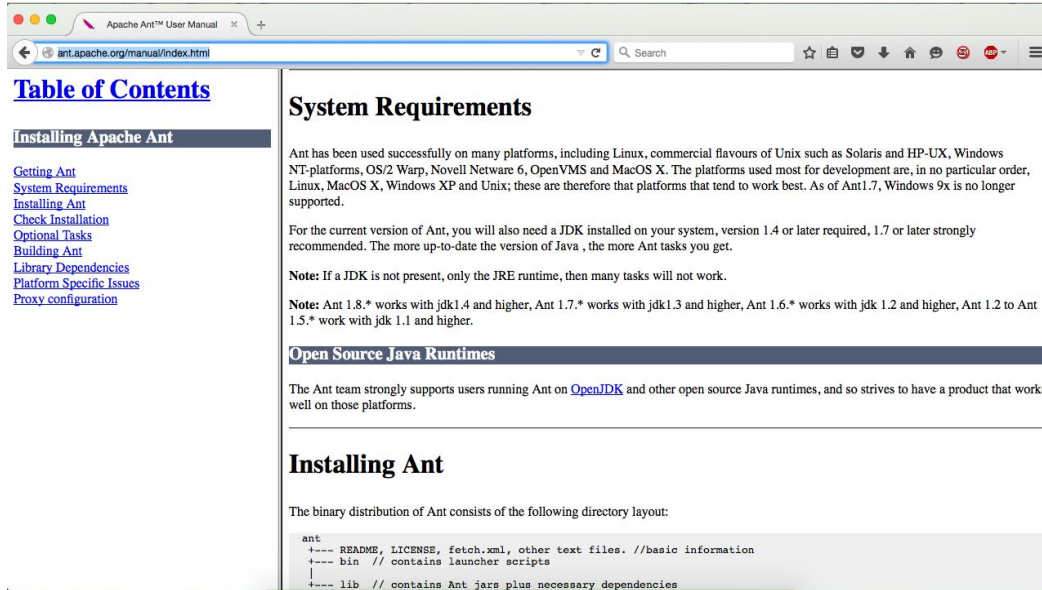


1. Install Apache Ant

- Follow Apache Ant official manual to install ant on your system
 - Manual URL: <http://ant.apache.org/manual/index.html>

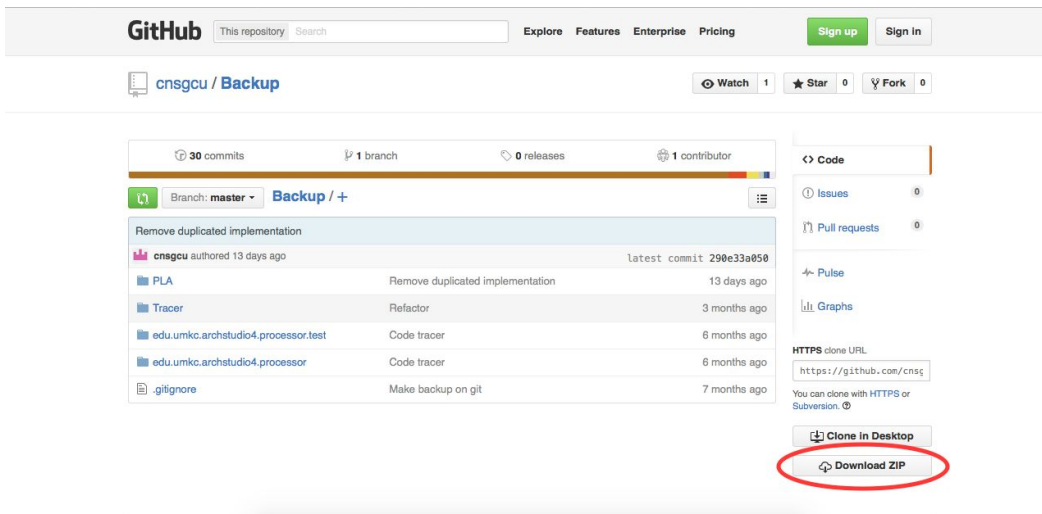


The screenshot shows the Apache Ant User Manual website. The left sidebar contains a 'Table of Contents' with links to 'Installing Apache Ant', 'Getting Ant', 'System Requirements', 'Installing Ant', 'Check Installation', 'Optional Tasks', 'Building Ant', 'Library Dependencies', 'Platform Specific Issues', and 'Proxy configuration'. The main content area is titled 'System Requirements' and contains text about supported platforms and JDK requirements. Below this is a section titled 'Open Source Java Runtimes'. The 'Installing Ant' section follows, describing the binary distribution directory layout with a code block:

```
ant
+--- README, LICENSE, fetch.xml, other text files. //basic information
+--- bin // contains launcher scripts
+--- lib // contains Ant jars plus necessary dependencies
```

2. Get refactored Solr source code

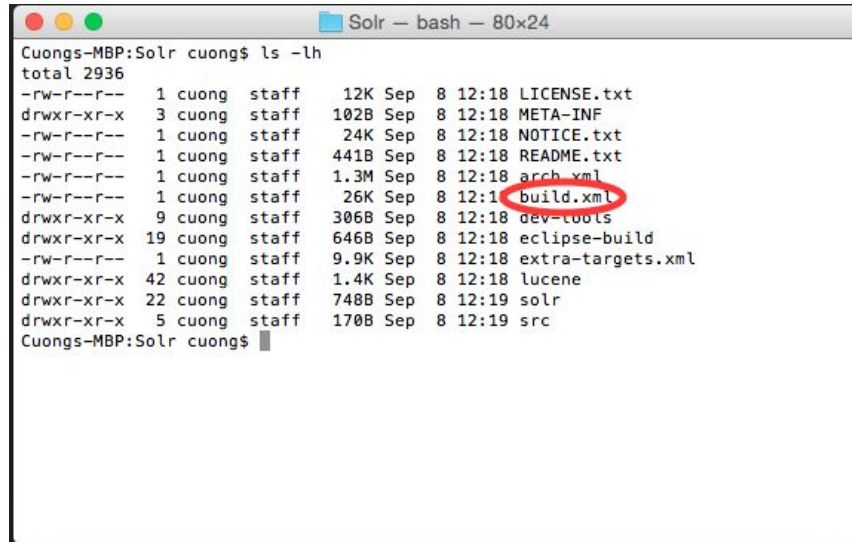
- Follow below url and click on the Download Zip button, then unzip the file
 - GitHub URL: <https://github.com/cnsgcu/Backup>



The screenshot shows the GitHub repository page for 'cnsgcu / Backup'. The repository has 30 commits, 1 branch, 0 releases, and 1 contributor. The 'Code' section is expanded, showing the 'Download ZIP' button circled in red. The repository name is 'Backup' and the branch is 'master'. The commit history shows a recent commit 'Remove duplicated implementation' by 'cnsgcu' 13 days ago, and several older commits related to 'Tracer' and '.gitignore'.

3. Install Ivy

- On command line tool(cmd.exe for Windows and Terminal for Linux/Mac), navigate to Solr root folder, under Backup/PLA/Solr folder, which contains the ant build.xml



```
Cuong-MBP:Solr cuong$ ls -lh
total 2936
-rw-r--r--  1 cuong  staff   12K Sep  8 12:18 LICENSE.txt
drwxr-xr-x  3 cuong  staff  102B Sep  8 12:18 META-INF
-rw-r--r--  1 cuong  staff   24K Sep  8 12:18 NOTICE.txt
-rw-r--r--  1 cuong  staff  441B Sep  8 12:18 README.txt
-rw-r--r--  1 cuong  staff  1.3M Sep  8 12:18 arch.xml
-rw-r--r--  1 cuong  staff   26K Sep  8 12:18 build.xml
drwxr-xr-x  9 cuong  staff  306B Sep  8 12:18 dev-tools
drwxr-xr-x 19 cuong  staff  646B Sep  8 12:18 eclipse-build
-rw-r--r--  1 cuong  staff   9.9K Sep  8 12:18 extra-targets.xml
drwxr-xr-x 42 cuong  staff   1.4K Sep  8 12:18 lucene
drwxr-xr-x 22 cuong  staff   748B Sep  8 12:19 solr
drwxr-xr-x  5 cuong  staff   170B Sep  8 12:19 src
Cuong-MBP:Solr cuong$
```

- Execute `ant ivy-bootstrap` to install Ivy

```
Cuong-MBP:Solr cuong$ ls -lh
total 2936
-rw-r--r--  1 cuong  staff   12K Sep  8 12:18 LICENSE.txt
drwxr-xr-x  3 cuong  staff  102B Sep  8 12:18 META-INF
-rw-r--r--  1 cuong  staff   24K Sep  8 12:18 NOTICE.txt
-rw-r--r--  1 cuong  staff  441B Sep  8 12:18 README.txt
-rw-r--r--  1 cuong  staff  1.3M Sep  8 12:18 arch.xml
-rw-r--r--  1 cuong  staff   26K Sep  8 12:18 build.xml
drwxr-xr-x  9 cuong  staff  306B Sep  8 12:18 dev-tools
drwxr-xr-x 19 cuong  staff  646B Sep  8 12:18 eclipse-build
-rw-r--r--  1 cuong  staff   9.9K Sep  8 12:18 extra-targets.xml
drwxr-xr-x 42 cuong  staff   1.4K Sep  8 12:18 lucene
drwxr-xr-x 22 cuong  staff   748B Sep  8 12:19 solr
drwxr-xr-x  5 cuong  staff   170B Sep  8 12:19 src
Cuong-MBP:Solr cuong$ ant ivy-bootstrap
Buildfile: /Users/cuong/Downloads/Backup/PLA/Solr/build.xml

ivy-bootstrap:

ivy-bootstrap1:
[echo] installing ivy 2.3.0 to /Users/cuong/.ant/lib
[get] Getting: http://repo1.maven.org/maven2/org/apache/ivy/ivy/2.3.0/ivy-2.3.0.jar
[get] To: /Users/cuong/.ant/lib/ivy-2.3.0.jar
[get] Not modified - so not downloaded

ivy-bootstrap2:

ivy-checksum:

ivy-bootstrap:
BUILD SUCCESSFUL
Total time: 3 seconds
```

4. Fetch Solr dependencies

- Run `ant compile` task to fetch all dependencies

```
Cuongs-MBP:Solr cuong$ ant compile
Buildfile: /Users/cuong/Downloads/Backup/PLA/Solr/build.xml

compile:

resolve:

ivy-availability-check:

ivy-fail:

ivy-configure:
[ivy:configure] :: Apache Ivy 2.3.0 - 20130110142753 :: http://ant.apache.org/ivy/ ::
[ivy:configure] :: loading settings :: file = /Users/cuong/Downloads/Backup/PLA/Solr/lucene/ivy-settings.xml

resolve:

ivy-availability-check:

ivy-fail:

ivy-configure:
[ivy:configure] :: loading settings :: file = /Users/cuong/Downloads/Backup/PLA/Solr/lucene/ivy-settings.xml

resolve:

ivy-availability-check:

ivy-fail:

ivy-configure:
[ivy:configure] :: loading settings :: file = /Users/cuong/Downloads/Backup/PLA/Solr/lucene/ivy-settings.xml

resolve:

ivy-availability-check:

ivy-fail:

ivy-configure:
[ivy:configure] :: loading settings :: file = /Users/cuong/Downloads/Backup/PLA/Solr/lucene/ivy-settings.xml

resolve:

ivy-availability-check:

ivy-fail:

ivy-configure:
[ivy:configure] :: loading settings :: file = /Users/cuong/Downloads/Backup/PLA/Solr/lucene/ivy-settings.xml

resolve:

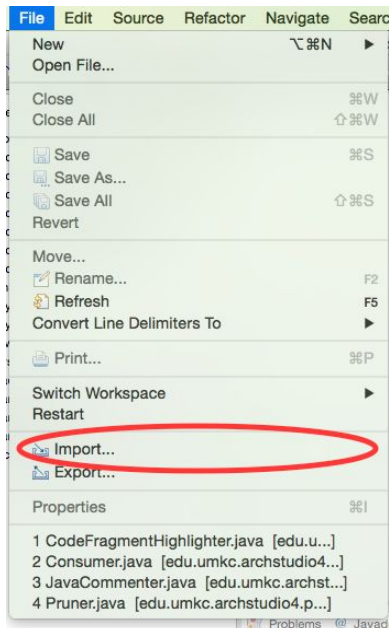
ivy-availability-check:

ivy-fail:

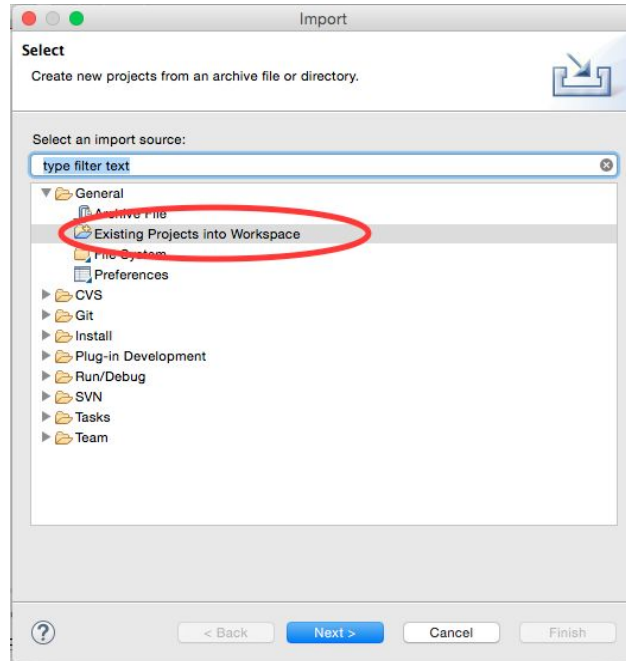
ivy-configure:
[ivy:configure] :: loading settings :: file = /Users/cuong/Downloads/Backup/PLA/Solr/lucene/ivy-settings.xml
```

5. Start Solr from AMI Launcher

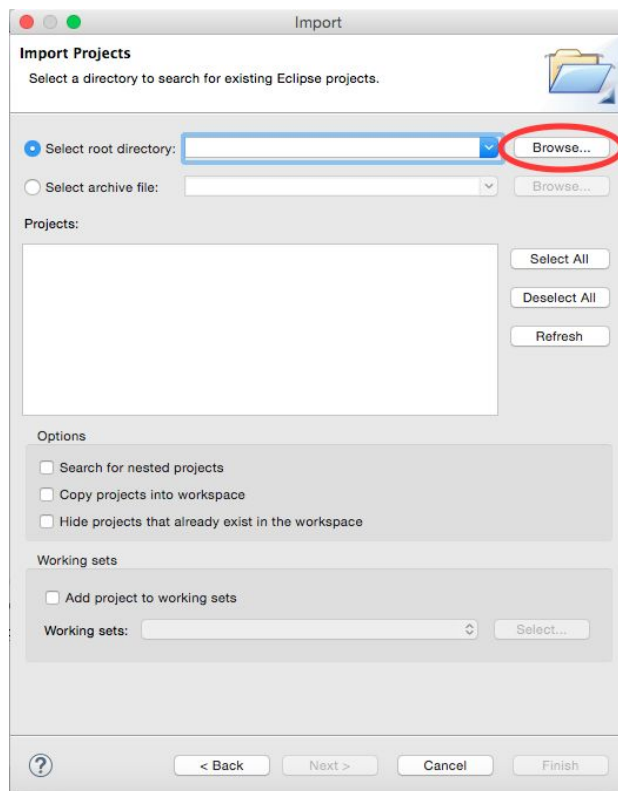
- On Eclipse, choose File > Import...



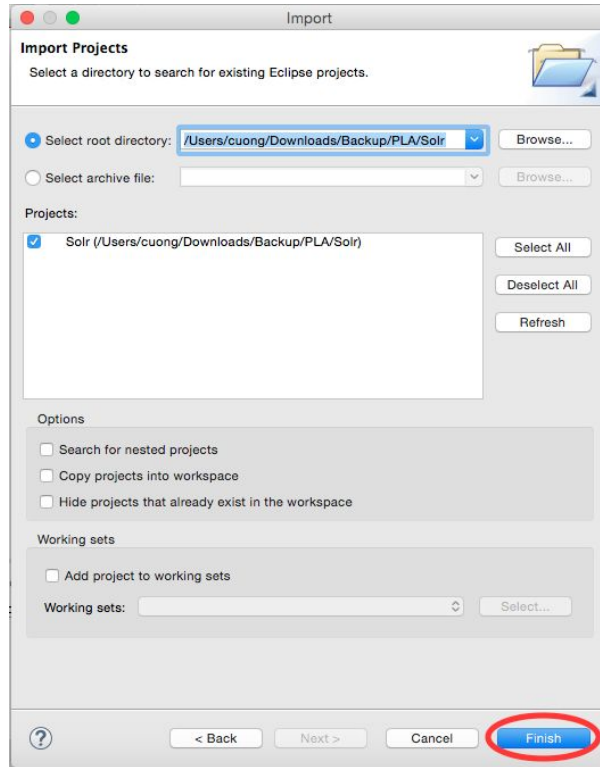
- Choose Existing project into Workspace



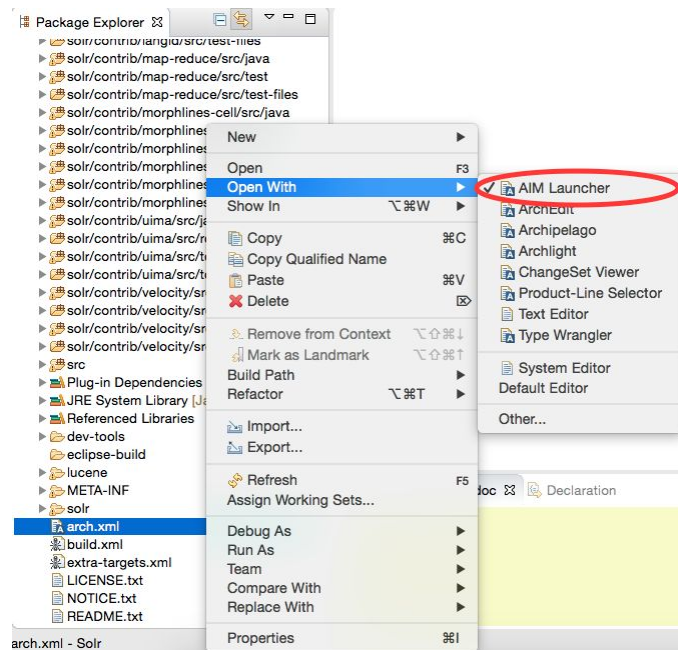
- Click on Browse... button to locate Solr source code folder



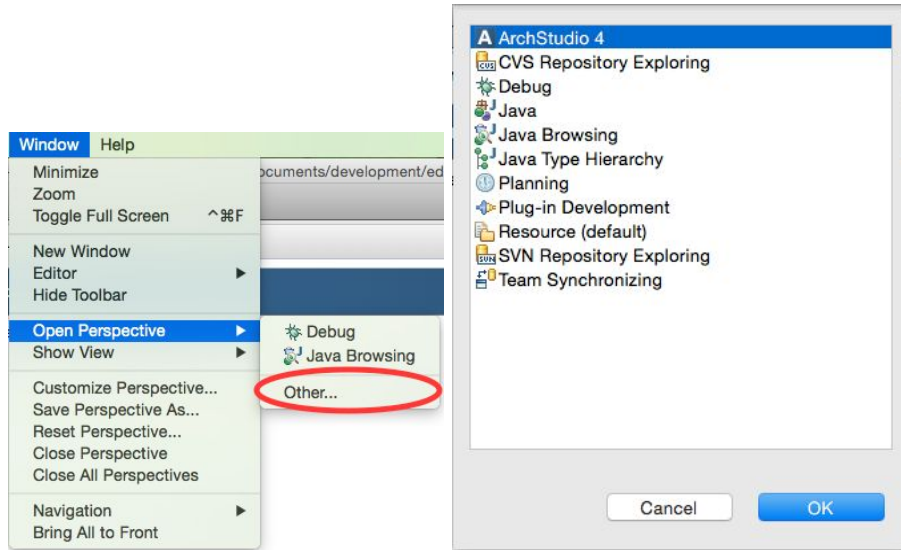
- Click Finish to import Solr



- Right click on arch.xml file choose Open With > AIM Launcher



- Switch to ArchStudio 4 mode by choosing Window > Open Perspective > Other...



- On Outline window, double click on SolrArch



- On arch.xml - AIM Launcher window, click Instantiate

