**2015.08.28 (Friday, August, 28th, Year 2015)**  
  
Today I want to accomplish one thing. Anything more is bonus.  
Figure out how to get a servlet working on open shift. Specifically servlet mapping for URLS.  
<https://github.com/gssOpenShiftsupportExamples/Tomcat_Example/blob/master/src/main/java/BaseServlet.java>

WTF. I need a plugin if I want net beans to open the file in windows explorer.  
<http://stackoverflow.com/questions/2624194/how-do-i-open-folder-in-explorer-in-netbeans-php>  
  
I logged into my application using SSH & PUTTY... And edited some files in VIM.  
The changes were NOT reflected. Actually... Restart server first.  
Then we should watch git workflow video on how to work with open shift.  
As my changes today are starting to NOT show up.

Action hooks interesting to read about. But does not solve problem I am having.  
<https://developers.openshift.com/en/managing-modifying-applications.html>  
  
Try deleting index file???  
Edited a file called "Snoop.jsp" and put photo of doge into it...  
See if that shows up.  
  
Also.. You've been uploading changes by force-restart of server when it gets stuck in "building".  
See if there is a more proper way to attack this.  
<https://forums.openshift.com/stuck-in-status-building>

What is "git deploy" ?  
  
More on build process:  
<https://docs.openshift.com/online/cartridge_specification_guide/openshift_build_process.html>  
$OPENSHIFT\_KEEP\_DEPLOYMENTS is interesting... Wonder if I need to clean out previous deployments?  
$OPENSHIFT\_REPO\_DIR , where your code actually is.

Definitely stuck on building. Maybe try deploying your own .war file??

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| What about rhc commands? Trying:  rhc app-stop j rch app-tidy j rch app-start j  https://developers.openshift.com/en/managing-common-rhc-commands.html NOTE: app-restart != (app-stop & app-start) Thus, the commands I am trying may have different results than "rch app-restart j"  <https://developers.openshift.com/en/managing-filesystem.html>  Migth help you to understand the actual structure a bit better. Also read this again? <https://developers.openshift.com/en/managing-modifying-applications.html> Really, just read all of that documentation. | .  |-- .env  |-- app-root  | |-- data  | |-- repo -> runtime/repo  | `-- runtime  | |-- data  | `-- repo  | `-- ...deployed application code  |-- app-deployments  | |-- current  | | |-- build-dependencies  | | |-- dependencies  | | |-- metadata.json  | | `-- repo  | `-- ...application deployments  |-- git  | `-- [APP\_NAME].git  | `-- hooks  | | |-- post-receive  | | |-- pre-receive  | | `-- ... sample hooks  | `-- ... other git directories  `-- ...cartridge directories |

Here is someone having my problem:  
<https://forums.openshift.com/git-push-does-not-reflect-changes>

Try removing ROOT.war via SSH session:  
QUOTE:"After ssh'ed onto the server, did you try removing ROOT.war.deployed and restart JBoss?"

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| Manual Maven Build over SSH solution: |
| Problem solved.  I had one Java class that was not pushed to the git repo.  So now I wonder why I did not see any build errors in my logs.  The way I managed to solve this was to ssh in my app and do a manual maven build which ended with errors. |

My plan:  
1. Stop application with rhc app-stop j  
2. Remove the ROOT.war file  
3. Restart the application. (or start)  
 Might want to try both restart and start, as one may invoke  
 a build process while the other may not.  
  
  
Possibly your files are not being tracked in git?  
<http://stackoverflow.com/questions/3801321/git-list-only-untracked-files-also-custom-commands>  
Possibly deletion of folders destroyed your build process??

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| Root.war deployed, but no app: <http://stackoverflow.com/questions/23873296/openshift-root-war-deployed-but-no-app>  What is "scp" ing??? |
| $ scp "~/ROOT.war" SHA@APP-DOMAIN.rhcloud.com:/var/lib/\  openshift/SHA/app-root/dependencies/jbossas/deployments |

There may come a time when you need to enable other versions of java on open shift:  
<http://utumno.github.io/blog/2014/05/25/jboss-on-eclipse-luna/>

vim: q! == quit without saving.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| app-deployments | app-root | git | jbossews | mysql | phpmyadmin |
| |  | | --- | | **2015-08-28\_10-25-18.751/** | |  | | **by-id/** | |  | | **current/** | |  | |  |  |  |  |  |

GUESS:  
force\_clean\_build in metadata.json on our SSH session of app might be a good thing to set to true.  
<https://forums.openshift.com/building-maven-app-seems-not-to-perform-clean>

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| I have: 1: on command line: rch app-stop j 2: SSH + VIM, edited: app-deployments/2015-08-28\_10-25-18.751/metadata.json  To have: force\_clean\_build:true 3:Then restarted on web-console.  No luck with that. I am guessing because I edited deployed/compiled code in a  temp directory that gets overwritten when the app is re-deployed. |

<http://michael.richter.name/blogs/awhy-i-no-longer-contribute-to-stackoverflow>  
Maybe I need to just... research on my own?

Attemping to delete internals of app-deployments folder over SSH.  
<http://unix.stackexchange.com/questions/86923/delete-subfolders-without-deleting-parent-folder>  
What is "shopt" and "dotglob" commands?

http://www.gnu.org/software/bash/manual/html\_node/The-Shopt-Builtin.html  
dotglob: If set, bash includes filenames beginning with an "." in the results of filename expansion.  
Ah, I see why I need this, to remove .git .ssh .whatever folders and .config files.  
-s == Enable(set) each optname.  
-u == Disable(unset) each optname.  
//dotglob is an optname (option name) of the dotglob command.  
  
rm -rf /config/filegroups/\*/  
  
Emptied out app-deployments folder over SSH.  
But first stopped the app on command line using "rhc app-stop j"  
<https://forums.openshift.com/directory-structure>

Next? Figure out what the other folders are for!  
What is "app-root" for?  
  
//Got rid of temp folders over SSH:  
>cd $OPENSHIFT\_TMP\_DIR  
>rm -rf whateverFoldersWerehere/  
  
Good info here:  
<https://developers.openshift.com/en/managing-filesystem.html#app-root>  
Wonder if I can get an IDE for SSH... Because it gets a bit intense.  
Is there a putty IDE?  
  
Cleared out: app-root/runtime/repo...

OK. A lot of things have been nuked. Kind of lost track of what.  
But lets try and re-deploy and see if the app is built back up correctly.

So... the app restarted. Was suprised about that. But the changes did not take effect.  
Lets go into app-root/runtime/repo and see what the .war file in there looks like.

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| THOUGHT! You might have conflicting servlet mappings? |
| |  | | --- | |  | | |  |  | | --- | --- | |  |  | | | //Copied from web.xml in SSH session:  // app-root/repo/.openshift/config/web.xml  <!-- ==================== Default Welcome File List ===================== -->  <!-- When a request URI refers to a directory, the default servlet looks -->  <!-- for a "welcome file" within that directory and, if present, to the -->  <!-- corresponding resource URI for display. -->  <!-- If no welcome files are present, the default servlet either serves a -->  <!-- directory listing (see default servlet configuration on how to -->  <!-- customize) or returns a 404 status, depending on the value of the -->  <!-- listings setting. -->  <!-- -->  <!-- If you define welcome files in your own application's web.xml -->  <!-- deployment descriptor, that list \*replaces\* the list configured -->  <!-- here, so be sure to include any of the default values that you wish -->  <!-- to use within your application. -->  <welcome-file-list>  <welcome-file>index.html</welcome-file>  <welcome-file>index.htm</welcome-file>  <welcome-file>index.jsp</welcome-file>  </welcome-file-list> | |

<https://docs.openshift.org/origin-m4/oo_cartridge_guide.html#markers-3>

**Where is ROOT.war within the open shift app?**  
I cannot find it as I browse around via SSH session.

https://forums.openshift.com/how-to-deploy-a-war-file-in-tomcat  
To deploy a .war file, you need to remove the pom.xml file, and the /src directory from your application, add your .war file into /webapps (i think there is already a **ROOT.war** file there also?)

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| For deploying your own .war file. (I don't want to do, but looks useful) https://forums.openshift.com/how-to-deploy-a-war-file-in-tomcat |
| Looks like it's working fine now. Nice work! I was going to suggest reviewing your app logs and modifying **servlet.xml** (in your local repo/.openshift/config/server.xml) from:  <Host name="localhost" appBase="webapps"  unpackWARs="false" autoDeploy="true">  to:  <Host name="localhost" appBase="webapps"  unpackWARs="true" autoDeploy="true"> |

AH! Here is root.war:  
/var/lib/openshift/55de2c490c1e66b2c9000242/**jbossews/webapps**How do I copy root.war onto my local machine from SSH so I can take a look and hack away at it??  
How about... who cares? Lets delete the thing!

Can't remember what "rhc" stands for...  
I remember the command by thinking "Red House Cat"

Now that root.war was deleted... >rhc app-start j  
Lets see if application re-deploys correctly, since we are forcing root.war to be  
re-built.

Result??? BLANK APP!!! There must be a problem.  
Maybe try rolling back git repo to earlier build and re building?

Found this in my logs:  
-------------------------------------------------------------------------  
INFO: Cluster RuleSet not found due to [java.lang.ClassNotFoundException: org.apache.catalina.ha.ClusterRuleSet]. Cluster configuration disabled.  
-------------------------------------------------------------------------

AH! When we clean+build using maven war plugin, we get this message:  
**Warning: selected war files include a WEB-INF/web.xml which will be ignored   
(webxml attribute is missing from war task, or ignoreWebxml attribute is specified as 'true')**

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| --- |
| **Edited maven WAR plugin. (NOT compiler plugin. Make that mistake earlier) Here is segment of my pom.xml file:** |
| <plugin>  <artifactId>maven-war-plugin</artifactId>  <version>2.1.1</version>  <configuration>    <!-- https://issues.apache.org/jira/browse/MWAR-248 -->  <failOnMissingWebXml>true</failOnMissingWebXml>  <ignoreWebxml>false</ignoreWebxml>  <webXml>src/main/webapp/WEB-INF/web.xml</webXml>    <outputDirectory>webapps</outputDirectory>  <warName>ROOT</warName>  </configuration>  </plugin> |

This guy is building his war locally, then pushing it to the openshift git repo:  
<https://www.youtube.com/watch?v=dVtlfxbah5w>

Building OpenShift .war over SSH:  
<http://blog.anthavio.net/2014/01/deploy-to-openshift-from-github.html>

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| --- |
| Tried to build over SSH: |
| [ERROR] Could not create local repository at /var/lib/openshift/55de2c490c1e66b2c9000242/.m2/repository -> [Help 1] |
| pwd (my working directory over SSH) == [j-madnamespace.rhcloud.com repo]\> |

This could possibly work:  
<https://forums.openshift.com/maven-could-not-create-local-repository>  
cd app-root  
cd repo  
[j-madnamespace.rhcloud.com repo]\> //where you are now.  
mvn install -s $OPENSHIFT\_DATA\_DIR/settings.xml  
  
Maybe read up on this documentation???

Build logs? Reading them might tell me what is happening.  
openshift kube buildLogs --id=[buildID]  
<https://blog.openshift.com/builds-deployments-services-v3/>

//Configuring which branch to deploy:  
https://developers.openshift.com/en/managing-deployments.html#configuring-which-branch-to-deploy

Create branch of the original commit:  
http://stackoverflow.com/questions/2816715/branch-from-a-previous-commit-using-git  
git branch branchname <sha1-of-commit>  
  
To get the sha, do a "git log" on command line.  
  
HOW THE HELL DO YOU GET OUT OF GIT LOG???  
<http://stackoverflow.com/questions/9483757/how-to-exit-git-log>  
  
Export log to text file:  
<http://stackoverflow.com/questions/10330425/how-do-i-export-a-git-log-to-a-text-file>  
git --no-pager log > log.txt  
git log > log.txt  
  
SHA of the very first commit done by open shift's template builder:  
**4d3ecc589e43a46e7a0accb7a393ee3ce5c24fdd  
BRANCH\_INITED**I did this:  
$ rhc app-configure myapp --deployment-branch new\_branch  
Specifically:  
$ rch app-configure j --deployment-branch BRANCH\_INITED  
  
App still not working.  
So this tells me the mistake is not in the git-repo, but rather in  
some detail of something I messed up over SSH.

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| Deployment rollback: https://blog.openshift.com/introduction-to-deployments-and-rollbacks-on-openshift/ |
| |  |  | | --- | --- | |  | **Seems like... Deleting all the deployments in my deployment folder really messed me up. But... we should be able to re-deploy? Right???** | |

You could probably re-create your app by archiving your git repo...  
But that is kind of messy. Here is how:  
<https://forums.openshift.com/recreate-an-existing-app-so-it-is-scaleable>  
  
I think from here, the best option is to delete your app and start over again.  
But mess around with SSH a bit more carefully.  
In fact... Delete stuff until you figure out what does what.

The only thing I really care about is the POM.xml file:  
<http://pastebin.com/04xcASVJ>  
  
Maybe also keep copy of the... servlet files? and the Web.xml?

Trying to salvage old repo by:  
Cloning local repo into github:  
https://help.github.com/articles/importing-a-git-repository-using-the-command-line/

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| Add an existing repository to github: <https://help.github.com/articles/adding-an-existing-project-to-github-using-the-command-line/>  Drew helped me. Here is what we did: |
| 1. Make a new repo on github. Do NOT initialize it with a readme or any files. 2. You possibly will have to delete the remote branch's head:  $git push --delete origin/master  FATAL: --delete doesn't make any sense without any refs. 3. git checkout master 4. git pull Your configuration specifies to merge with the ref 'master" from the remote, but no such  ref was fetched. 5. FROM MASTER BRANCH (You have master checked out. From the local repo we want to upload)  **git config -global push.default simple** 6.**git push**  7. Git's response: [...] To <https://github.com/JMadisonAtNexientDotCom/j.git> \* [new branch] master -> master |

http://codrspace.com/JMadisonAtNexientDotCom/clone-local-git-repo-into-github/

**TODO for next time:**  
1. Initialize a new open shift app using the old repo.  
2. See what happens.  
3. Try variations:  
3.A: Init new open shift app using old repo but using branch "BRANCH\_INITED"  
3.B: Init new open shift app using old repo, using the head of branch "master".  
  
Update: Trying to get openshift app up and running before I leave work tonight:

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| Turns out what I did earlier only uploaded my MASTER branch.  Here is what I did to get the BRANCH\_INITED pushed to github:  $git checkout BRANCH\_INITED  $git config --global push.default simple  $git push --set-upstream origin BRANCH\_INITED  RESPONSE FROM GIT:  \* [new branch] BRANCH\_INITED -> BRANCH\_INITED  Branch BRANCH\_INITED set up to track remote branch BRANCH\_INITED from origin. |
|  |

Might have to create a deploy key for github in order for openshift to have access to my github repo.  
<https://developer.github.com/guides/managing-deploy-keys/>

**2015.08.31: Monday, August 31st, Year 2015:  
Summary:  
1. Trouble shooted git branch conflicts.  
2. Read some of pro-git.  
3. Succesfully got servlet running on OpenShift.  
Some openshift vital commands:  
PUTTY: gear deploy BRANCH\_NAME  
CMD :rhc app-configure APP\_NAME --deployment-branch BRANCH\_NAME  
GIT :git branch --set-upstream origin BRANCH\_NAME  
or something like that to make sure newly created branch is  
now reflected in your remote git repo.**  
Todo: Figure out deploy keys and "SSH agent forwarding" for github.  
This will be needed for us to deploy an openshift app using our own github account.  
And is what I need to do if I am to salvage the git repo from the OpenShift app I deleted.  
  
**GITHUB: Using SSH agent forwarding**  
<https://developer.github.com/guides/using-ssh-agent-forwarding/>

"The nifty thing is, you can choose to let servers access your local ssh-agent as if they were already running on the server. This is sort of like asking a friend to enter their password so that you can use their computer."

1:  
Ensure that your own SSH key is set up and working. You can use our guide on generating SSH keys if you’ve not done this yet.  
You can test that your local key works by entering   
**ssh -T git@github.com** in the terminal:  
  
2: Find: **~/.ssh/config** . If does not exist: **touch ~/.ssh/config** in terminal.  
  
3: Enter the following text into the file, replacing example.com with your server’s domain name or IP:  
Host example.com  
ForwardAgent yes  
  
Hmm... I don't think I need agent forwarding...  
  
App is setup. Need to see if my app and the new repo are the same code. If so, we need to start  
pushing to BOTH remotes somehow.  
<http://stackoverflow.com/questions/26368703/git-status-of-another-remote>  
git branch --set-upstream-to=<The new master here>   
  
My new git repo that is a clone of repo "j":  
git clone ssh://55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com/~/git  
  
Full command:  
git branch --set-upstream-to ssh://55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com/~/git  
Not sure if this will work, since usual commands are HTTPS protocol, and this is SSH protocol.  
Didn't work. Try get fetch.  
  
git fetch ssh://55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com/~/git  
RESULT:  
Warning: Permenantly added "j1clone01-madnamespace.rhcloud.com,52.21.123.126' (RSA)  
to the list of known hosts.  
fatal: '~/git' does not appear to be a git repository.  
fatal: Could not read from remote repository.  
  
OOPS! That ssh url was not complete:  
TRY:  
git fetch ssh://55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com/~/git/j1clone01.git/  
git branch --set-upstream-to ssh://55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com/~/git/j1clone01.git/

<http://stackoverflow.com/questions/4131164/pulling-from-another-local-repository>  
$ git remote add repo\_b [username@host:path/to/repository.git](mailto:username@host:path/to/repository.git)  
$ git pull repo\_b master  
  
GIT/J repo:  
Commit Message: "If I don't see this, I know I need to refresh browser."  
Branch: Master:  
SHA: d6ca0e280ad564f560835fb8e8550b86fdbfa702

How did you make a new branch?  
git <name\_of\_new\_branch> <sha\_hash\_of\_commit>  
  
Pushing that new branch upstream and getting the remote repo to use that branch:  
git push --set-upstream origin WORKING\_COMMIT\_BRANCH\_01  
  
/////////////////////////  
How do we link up our repo to a different remote repo???  
/////////////////////////

Figure out the remote you are currently linked to:  
<http://stackoverflow.com/questions/4089430/how-can-i-determine-the-url-that-a-local-git-repo-was-originally-cloned-from>  
git config --get remote.origin.url //if referential integrity has been broken.  
git remote show origin //if referential integrity is in tact.  
git ls-remote --get-url [REMOTE]  
git remote -v  
git remote show origin

//Change the push+fetch urls of your local repo:  
**https://help.github.com/articles/changing-a-remote-s-url/  
git remote set-url origin** [**https://github.com/USERNAME/OTHERREPOSITORY.git**](https://github.com/USERNAME/OTHERREPOSITORY.git) **This url:** ssh://55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com/~/git/j1clone01.git/

//VERIFY:  
git remote -v  
  
//Ok... so we can change the push/fetch urls..  
//But how do we make openshift operate off of those branches?  
//SEARCH: change git branch openshift

AHH THIS:  
<https://github.com/travis-ci/dpl/issues/130>  
hc app-configure [app-name] --deployment-branch [branch]  
where j1clone01 is my app.   
where WORKING\_COMMIT\_BRANCH\_01 is the branch I want to try.

app should have the attribute **deployment\_branch** we can use.  
  
https://developers.openshift.com/en/managing-deployments.html  
rhc app-configure <app> --deployment-branch <branch\_name>

YESS!!! So.. still a bit confused about how everything is organized. But got one of my old  
commits working on WORKING\_COMMIT\_BRANCH\_01 branch.  
http://j1clone01-madnamespace.rhcloud.com/  
  
Next step: Check out the commit with all the maven dependencies.  
  
Hmm.. Redeployment did not work by restarting app after updating repo:  
<http://stackoverflow.com/questions/16480447/how-to-redeploy-a-tomcat-7-application-on-openshift>  
rhc app deploy HEAD -a <appname>  
  
Did not work.. Try manual re-deploy:  
ssh -t 'gear deploy HEAD'

Maybe need to try that on putty???  
In putty:  
gear deploy HEAD

GIT BASH:  
git fetch ssh://55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com/~/git/j1clone01.git/  
  
4d3ecc589e43a46e7a0accb7a393ee3ce5c24fdd

git push --set-upstream origin master  
//This worked. Now pull seems to work better.  
//But pull says there is no tracking information.

Okay... It has been brought to my attention. That to do this effectively...  
I am going to need to know git VERY WELL. Looking up resources.

Downloaded 500 pages of ProGit.  
And will start reading this.  
Currently on book page 35:  
<https://progit2.s3.amazonaws.com/en/2015-08-30-2234b/progit-en.788.pdf>

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Page 39:  
INSTALLATION GIT CONFIG:  
**/etc/gitconfig** (for me: C:\DEV\PROG\Git\etc\gitconfig)  
  
USER GIT CONFIG:  
**~/.gitconfig** or ~/.config/git/config (for me: C:\Users\jmadison\.gitconfig)  
NOTE: Hard to search for because of the "." in front of the folder name.  
  
REPO SPECIFIC CONFIG:  
**.git/config** (for me: C:\DEV\REPO\GIT\j\.git)  
Note that: The remotes folder is also pretty useful here too.  
  
  
helloxxxx  
My cut+paste is not working all of the sudden...

By using:  
git push origin --delete MASTER  
I was able to delete one of the master branches and now git "pull" works.  
I had "master" & "MASTER" branches that were conflicting.  
  
Make log pretty and one-line:  
http://mislav.uniqpath.com/2010/07/git-tips/  
git log --oneline --decorate

Delete local branch:  
<http://makandracards.com/makandra/621-git-delete-a-branch-local-or-remote>  
git branch --delete the\_local\_branch  
or  
git branch -d the\_local\_branch  
  
Delete remote branch:  
git push origin --delete some\_branch\_that\_is\_remote

...

GOT A SIMPLE SERVLET RUNNING ON OPEN SHIFT!!!  
WOOOH!!!  
  
SQL Cartridge for j1clone01 app: (Clone of original j repo of destroyed application)  
Root User: adminXQ1FMjx   
Root Password: tWczw5ecRifW  
Database Name: j1clone01  
Connection URL: mysql://$OPENSHIFT\_MYSQL\_DB\_HOST:$OPENSHIFT\_MYSQL\_DB\_PORT/

Tomorrow: get basic hibernate app reading and writing to database.  
This tutorial seems helpful: <http://www.roseindia.net/hibernate/hibernate4.3/Hibernate-4-hello-world-example.shtml>  
  
Hibernate team keeps on deprecating all of their shit.  
Makes it really hard for me to figure out how to do things!!!

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| **2015.09.01: Tuesday September 1st, 2015** |
| Summary: I got hibernate configuration slightly closer to working. But ran into troubles because: 1. There are 5 different versions of hibernate and they don't mix. 2. Hibernate team likes to deprecate everything they make. 3. 1+2 make is pretty hard to finda reliable hello world. And also make it really easy to screw up your configuration. Also, there were some particulars to how openshift deploys file. First tried to hack by putting hbm.cfg.xml into my server using "scp" command over ssh. Then started experimenting with different places to place hmb.cfg.xml.  Observations: 1. hbm.cfg.xml needs to be placed in webapps folder. 2. relative to absolute URI to hbm.cfg.xml will resolve correctly if this is done. I also experimented with figuring out how to embed txt file resources within java classes before I learned these implementation details. |

Interesting, different dependencies here:  
<http://hibernate.org/orm/downloads/>

Reading official hibernate documentation in an effort to learn how to do hibernate again.  
Because they keep deprecating their stuff!  
http://docs.jboss.org/hibernate/orm/5.0/userGuide/en-US/html\_single/  
  
Maybe watch this hibernate5 video:  
<https://www.youtube.com/watch?v=Y_SWbvjcW7E>  
  
Official docs:  
http://docs.jboss.org/hibernate/orm/5.0/quickstart/html/  
<http://docs.jboss.org/hibernate/orm/5.0/userGuide/en-US/html_single/>

scp local\_file user@remote\_host:remote\_file  
scp "C:\users\jmadison\Test.txt" [55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com](mailto:55e4598189f5cfcf3c000008@j1clone01-madnamespace.rhcloud.com): .  
  
Having trouble with scp...   
<https://forums.openshift.com/can-i-copy-files-from-my-workstation-to-openshift-using-scp>  
Lets try another way.  
  
How about... including hibernate as embedded resource so it can be found correctly?

Looks like key to including hibernate.cfg.xml as embedded resource:  
<http://tmont.com/blargh/2010/11/configure-nhibernate-with-embedded-resource>

|  |
| --- |
| Not sure what I am looking at... But:  http://stackoverflow.com/questions/10450821/configure-maven-shade-plugin-to-include-src-main-webapp |
| <build>  <resources>  <resource>  <directory>src/main/webapp</directory>  </resource>  </resources>  </build>   |  |  |  | | --- | --- | --- | | |  | | --- | |  | | Shade comes in handy, however, when building jar with embedded web server, where having the resources is needed. | |

Looks like hibernate needs this:  
slf4j for hibernate 5  
  
I know I was looking at an import list earlier for hibernate. Is it in my notes?  
HERE IT IS:  
http://hibernate.org/orm/downloads/  
Contents:

|  |
| --- |
| <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-core</artifactId>  <version>5.0.0.Final</version>  </dependency>  <!-- for JPA, use hibernate-entitymanager instead of hibernate-core -->  <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-entitymanager</artifactId>  <version>5.0.0.Final</version>  </dependency>  <!-- optional -->  <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-osgi</artifactId>  <version>5.0.0.Final</version>  </dependency>  <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-envers</artifactId>  <version>5.0.0.Final</version>  </dependency>  <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-c3p0</artifactId>  <version>5.0.0.Final</version>  </dependency>  <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-proxool</artifactId>  <version>5.0.0.Final</version>  </dependency>  <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-infinispan</artifactId>  <version>5.0.0.Final</version>  </dependency>  <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-ehcache</artifactId>  <version>5.0.0.Final</version>  </dependency> |

No mention of slf4j in here!  
  
Why is logging so hard??  
<http://stackoverflow.com/questions/11639997/how-do-you-configure-logging-in-hibernate-4-to-use-slf4j>  
  
Which JAR files do I need?  
https://logging.apache.org/log4j/2.0/faq.html#which\_jars  
You need at least the **log4j-api-2.1** and the **log4j-core-2.1** jar files.  
Also... Just adding log4j seems to have broken my build...

|  |
| --- |
| New problem, hibernate.xml.cfg sesssion manager is not initializing... Because I am missing a reflections library: http://www.mkyong.com/hibernate/hibernate-error-initial-sessionfactory-creation-failed-java-lang-noclassdeffounderror-orghibernateannotationscommonreflectionreflectionmanager/ |
| Add the dependency in Maven’s pom.xml  <dependency>  <groupId>hibernate-commons-annotations</groupId>  <artifactId>hibernate-commons-annotations</artifactId>  <version>3.0.0.GA</version>  </dependency>  P.S You may need to include the JBoss repository in order to download the Hibernate common annotation library.  <repositories>  <repository>  <id>JBoss repository</id>  <url>http://repository.jboss.com/maven2/</url>  </repository>  </repositories> |

When do all the errors end?  
When do I actually get to code?  
java.lang.**NoSuchMethodError**: org.hibernate.annotations.common.reflection.java.JavaReflectionManager.**setMetadataProvider**  
This person has my problem:  
<http://stackoverflow.com/questions/30531790/java-lang-nosuchmethoderror-org-hibernate-annotations-common-reflection-java-ja>  
  
This guy was most informative. But did not fix problem.  
Maybe take all imports from hibernate's site?  
http://www.mkyong.com/hibernate/hibernate-error-initial-sessionfactory-creation-failed-java-lang-noclassdeffounderror-orghibernateannotationscommonreflectionreflectionmanager/  
  
After SSHing into my app. I have confirmation that I put my hbm.cfg.xml file in the correct place  
to deploy it. No need for the "scp" command over ssh. Which would have been both hackish and slow.

|  |
| --- |
|  |

Note that hbm.cfg.xml was automatically deployed!  
  
OGM != ORM:  
<https://blog.openshift.com/configuring-hibernateogm-for-your-jboss-app-using-mongodb/>

A huntch: ASM library may be needed!  
By the description of what ASM does, pretty sure hibernate does some of that stuff within it's  
internal implementation.  
http://www.stackoverflow.dluat.com/questions/6018627/java-lang-nosuchmethoderror-org-objectweb-asm-classwriter  
<http://asm.ow2.org/>

....  
Searching for:  
hibernate reflection imports maven

This tells me that my problem is likely from mixing together incompatible versions of hibernate.  
FIX THAT.  
Get all hibernate version 5.0 imports. Get rid of the unnecessary imports that are causing conflicts.  
  
HERE:  
**http://stackoverflow.com/questions/26087939/strange-error-after-deploy-org-hibernate-annotations-common-reflection-java-jav**  
  
Also, this was pretty good info, about the ASM:  
<http://www.stackoverflow.dluat.com/questions/6018627/java-lang-nosuchmethoderror-org-objectweb-asm-classwriter>  
  
After piling on more imports...  
Specifically:

|  |
| --- |
| <dependency>  <groupId>org.hibernate</groupId>  <artifactId>hibernate-annotations</artifactId>  <version>3.5.6-Final</version>  </dependency> |

I got a new error:  
***java.lang.NoSuchMethodError: org.hibernate.cfg.annotations.reflection.JPAMetadataProvider.<init>(Lorg/hibernate/boot/spi/MetadataBuildingOptions;)V***