AboutTime Virtual Machine Setup

The current AboutTime project is being hosted using the ngrok service, nodejs, as well as a locally hosted mysql database on the SDL student VM 02. These instructions outline three parts: connecting to the VM, setting up the project on a fresh VM (for Ubuntu 16), and hosting a new instance of the project on the VM.

SDL VM Connection Steps

- 1. Go to your command-line/terminal
- 2. Type: ssh msoeUsername@ad.msoe.edu@sdlstudentvm02.msoe.edu
 - a. msoeUsername would be replaced with your MSOE username, the part that predicates @msoe.edu in your email
 - b. sdlstudentym02.msoe.edu is the virtual machine we're connecting to, the second software development lab virtual machine. If the virtual machine changes, as does this part
- 3. Put in your password, this should be the password you use to log into your other MSOE accounts such as your email and my.msoe.edu

VM Initial Setup Steps

Note: If the project is already set-up, skip this section

- 1. Download GIT, typing sudo apt update, then sudo apt-get install git
 - a. Provide your password if prompted
- 2. Set up the Bitbucket ssh, by typing ssh-keygen hitting enter to confirm the location entering a passphrase for the ssh key typing cat ~/.ssh/id_rsa.pub copying the displayed keys and pasting them to your Bitbucket account
 - a. Success here can be verified by typing ssh -T git@bitbucket.org
 - b. For more info see: https://confluence.atlassian.com/bitbucket/set-up-ssh-for-git-728138079.html
- 3. Type: git clone git@bitbucket.org:hasker/abouttime.git
 - a. In the event that this is no longer the current repository, you want to find the new link and use that here
- 4. Type *cd abouttime* to switch to the abouttime directory
- 5. Install node.js by typing sudo apt-get install nodejs
- 6. As we're working in Ubuntu16, we also need to get legacy nodejs as well, so type sudo apt-get install nodejs-legacy
 - a. This is due to an issue with Phantomjs not installing without legacy
- 7. Then type sudo apt install npm which grants us the npm command
- 8. To install project dependencies type sudo npm install
- 9. To install a plugin we need for our database migration, type sudo npm install -g db-migrate
- 10. Type sudo apt-get update to make sure you are up-to-date
- 11. Type sudo apt-get install ngrok-client to install ngrok, which we use to host the project
- 12. Then type sudo apt-get install mysql-server to install mysql
 - a. Set a password, this will be used later. Make sure to keep this safe somewhere, or make sure you won't forget it.
- 13. Type sudo mysql -u root
 - a. You may be prompted for your mysql password
- 14. Type CREATE DATABASE time_logger;
- 15. Type use mysql;
- 16. Type update user set authentication_string=password("), plugin='mysql_native_password' where user='root';
 - a. This should resolve a privilege issue when trying to migrate later
- 17. Type flush privileges;
 - a. Not doing this will ruin the database migration later
- 18. Type exit
- 19. We need to set up our .env file, so type cp .sample-env .env
- 20. Then type cp public/atlassian-connect-sample.json public/atlassian-connect.json
 - a. This will be used when hosting the project later on, but won't be touched for now
- 21. Type nano .env to start editing the file
 - a. JIRA_URL: This can be left default
 - b. JIRA_USERNAME: Your JIRA username
 - c. JIRA PASSWORD: Your JIRA password
 - d. DB_HOST: Set to "localhost"
 - e. DB_NAME: Set to "time_logger"
 - f. DB_USER: Set to the set mysql username (root by default)
 - g. DB_PASS: Set to the set mysql password (empty string by default)
 - h. BITBUCKET_USERNAME: Retrieve the information from Dr. Hasker, as it's stored in a private confluence page
 - i. BITBUCKET_PASSWORD: Same as above. **Note:** The Bitbucket username and password are used for issue reporting but are not required for the rest of the project to function
- 22. Type sudo db-migrate up for the purpose of database migration
- 23. Type mkdir logs to make a logs directory
 - a. This will be used to store our node/ngrok hosting logs later on

Note: Skip to part 3 if you already have a ngrok account, and have saved the auth token to the virtual machine server.

- 1. Create a free ngrok account at https://dashboard.ngrok.com/user/signup
 - a. Store the credentials somewhere you can remember
- 2. Log into the ngrok account go to https://dashboard.ngrok.com/get-started select Connect Your Account copy the authtoken line then paste it into the virtual machine terminal
 - a. If you get 'no such file or directory', remove the ./ part of the auth token
- 3. If you are not already in the proper directory, type Is to find the abouttime directory and use cd to traverse to it.
 - a. You should be the proper directory when Is returns a location with a file named index.js
- 4. Type nohup ./ngrok HTTP 8081 > logs/ngrok_currentdate.out 2>&1 &
 - a. Replace currentdate with the current date, using the format MM-DD-YYYY
 - b. If you get 'no such file or directory', remove the ./part of the ./ngrok
- 5. To find the ngrok URL, go to https://dashboard.ngrok.com/status and find the ngrok URL using https, NOT http. This is the URL being used to host the project, so copy it
 - a. There should only be two URLs as an account can only host one server at a time, and the only difference is http vs https. If this is not the case, try to kill any outstanding ngrok processes and start over from step 4
 - i. To kill outstanding ngrok processes, in the VM terminal type *ps -A | grep ngrok* to see ngrok processes, and *kill pid* whe re pid is the process id given from ps
- 6. Type nano public/atlassian-connect.json and edit the file's baseUrl, replacing it with the ngrok URL you found.
 - a. Keep the URL enclosed in quotation marks.
- 7. Type nohup node index.js > logs/node_currentdate.out 2>&1 &
- 8. In another window, Go to Jira settings, then select apps manage apps uninstall the last AboutTime app (if applicable) -> click upload ap p -> then paste in the url from ngrok, appending at the end: /atlassian-connect.json, and submit the URL
 - a. An example of the final url would be: https://b0da8a6c.ngrok.io/atlassian-connect.json
- 9. Type sudo mysql -u root
 - a. Provide your password, if necessary
 - b. **Note**: this step becomes is necessary due to confluence status report publishing requiring a secret key, and the project not getting one by default.
- 10. Type use time_logger;
- 11. Type UPDATE organization SET confluence_shared_secret='fLxT3HrBFtboh0e3xfEXRUe7QkkkaDKForA+3HqoOe98v8c9VSJou0o6vPRaIZGuZgT0I8WKc2Ihmh4vrcGtf A' ORDER BY organization_id DESC LIMIT 1;
- 12. Type flush privileges;
- 13. Type exit