ROITRAINING
MAXIMIZE YOUR TRAINING INVESTMENT

Cheat Sheet: Using Git

Using Git (Prerequisites)

- In Google Cloud Shell
  - If using cloudshell Editor, select **View | Toggle Hidden Files** so hidden (.) files are visible
  - In your `external` folder, create a new file named `.gitignore`
  - Search the web for ".gitignore for nodejs" and copy it into the `.gitignore` file
    - Here is a very simple example:

```
node_modules
logs
*.log
npm-debug.log*
```

- When done, copy the `.gitignore` file to the `internal` folder
  - Both the `internal` and `external` folders need a copy of `.gitignore`

Using Git

- The following slides provide steps on using GitHub
- Additionally, the last 2 optional slides show how to use Google Cloud Source Repos
    - You could choose to add GCP repos as a second remote

Using Git (GitHub)

- Prerequisites:
  - Join github if you are not already a member (www.github.com)
  - Create a public repository called `events-app-internal` in your github account
    - Do NOT add anything (e.g. a ReadMe)
    - Make a note of the repo address
  - Create a second repository called `events-app-external` in your github account
    - Do NOT add anything (e.g. a ReadMe)
    - Make a note of the repo address
- Switch to the browser with Google Cloud Shell
  - Open a new Cloud Shell tab by clicking the + button
  - Change to the **`sample-master`** folder and execute the following commands:
    - `git config --global user.email "your_email_on_github"`
    - `git config --global user.name "your_github_user_name"`
    - Verify with: `git config --global --list`

Using Git (GitHub) Continued

- In the same Google Cloud Shell tab, change to the `internal` folder
  - `git init`
  - `git add .`
  - `git commit -m "Initial commit"`
  - `git remote add origin` ***your-git-internal-repo-address***
  - `git push -u origin master`
    - You will be asked for your github user id and password
- Change to the `external` folder
  - `git init`
  - `git add .`
  - `git commit -m "Initial commit"`
  - `git remote add origin` ***your-git-external-repo-address***
  - `git push -u origin master`

Making Changes to Code

- Go make a change to your code
- In cloud Shell, change to the folder with the change (either `internal` or `external`)

```
git add .
git commit -m "My first change"
```

  - This commits it to your local repo
  - Has not changed remote repo yet
  - If another team member has already pushed changes you need to pull them
  - `git pull`
  - This will pull down the changes from the remote repo

- `git push origin master`
  - This pushes the change to the remote repo master branch

Optional - Using Git (Google Cloud Source Repos)

For Reference SKIP FOR NOW

- Switch to the browser with Google Cloud Shell
- Open a new Cloud Shell tab by clicking the + button

  - Change to the `sample-master` folder and execute the following commands:

  -
    ```
    export PROJECT=$(gcloud info --format='value(config.project)')
    ```

  -
    ```
    git config --global user.email "(gcloud config get-value core/account)"
    ```

  -
    ```
    git config --global user.name "Your-Name-Here"
    ```
- Create two source repos (for internal and external):

  -
    ```
    gcloud source repos create events-app-external
    ```
    - Type Y if asked to enable API

  -
    ```
    gcloud source repos create events-app-internal
    ```
- Configure git to use gcloud for authentication

  -
    ```
    git config credential.helper gcloud.sh
    ```
- You have just created two source repos on Google Cloud and configured Git
  - On the next page you will save your code to the appropriate repo

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Using Git (Google Cloud Source Repos) Continued

For Reference SKIP FOR NOW

- In the same Google Cloud Shell tab,
  - Change to the `internal` folder
  - `git config credential.helper gcloud.sh`
  - `git commit -m "Initial commit"`
  - `git remote add second https://source.developers.google.com/p/$PROJECT/r/events-app-internal`
  - `git push -u second master`
- Change to the `external` folder
  - `git config credential.helper gcloud.sh`
  - `git commit -m "Initial commit"`
  - `git remote add second https://source.developers.google.com/p/$PROJECT/r/events-app-external`
  - `git push -u second master`