dotBiz Infrastructure on SCMS for GAE

Deploying Prod Updates from Dev

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# Overview

This document details the process of copying the entire development environment over the production environment while retaining prod-specific files.

# Text Files

This section covers copying all source code from dev to prod.

## Update the Shell Script

Use Git to pull or checkout the latest version of the following shell script:

git://modalexii/Rocketeria/dotBiz/update\_prod\_from\_dev.sh

### Update Prod-Specific File List

View the file and review the files listed in the prod\_specific\_files array. These files will *not* be over-written, but all other files in the prod subdirectory will be. All or remove files as necessary.

### Update Environment Parent

If necessary, change the environment\_parent variable to reflect the location of git://modalexii/Rocketeria/dotBiz/ in your local working directory.

## Run the Update Script

Execute update\_prod\_from\_dev.sh from a terminal. Check the output for errors. The output from a successful run reads as follows:

|  |
| --- |
| **kyle@EDU-Mint1 ~/Git/modalexii/Rocketeria/dotBiz $ ./update\_prod\_from\_dev.sh**  **[!] This will destroy all prod files. You sure about this? [yN] y**  **[-] ok, your funeral...**  **[+] backing up prod-specific files**  **[+] making temporary directory**  **[+] making backup copy of prod/get\_env.py**  **[+] making backup copy of prod/static/image/header-text.png**  **[+] obliterating prod environment**  **[+] duplicating development environment**  **[+] restoring prod-specific files**  **[+] restoring prod/get\_env.py**  **[+] restoring prod/static/image/header-text.png**  **[+] removing temporary directory**  **[+] done** |

# Database Contents

This section covers copying the contents of the Google App Engine Datastore from the dotbiz-dev application to dotbiz-prod.

Note that very recent additions (how recent?) may not be included in this import operation. It is best to disable datastore writes for 6 hours before proceeding.

## Allow dotbiz-dev to import Datastore entities to dotbiz-prod

The copy processes that follow this section require the settings outlined below. These steps should only need to be completed once.

1. Enable the Python remote API on Prod by adding the following lines to dotbiz-prod’s app.yaml:

|  |
| --- |
| builtins:  - remote\_api: on |

1. Allow inbound connections from dotbiz-dev by adding the following lines to dotbiz-prod’s appengine\_config.py:

|  |
| --- |
| remoteapi\_CUSTOM\_ENVIRONMENT\_AUTHENTICATION = (  'HTTP\_X\_APPENGINE\_INBOUND\_APPID', ['dotbiz-dev']) |

1. Redeploy dotbiz-prod

## Copy data to Production

1. Browse to the GAE console for dotbiz-dev: <https://appengine.google.com/dashboard?&app_id=s~dotbiz-dev>
2. In the left navigation pane, click Datastore Admin, under the Data heading

*If the main pane of the Datastore Admin is blank, see the* [*Datastore Admin Console is blank*](#_4txr0yqou6pi) *section below.*

1. In the Entities table, check the box next to the “Entity Kind” heading to select all Kinds
2. Click Copy to Another App
3. In the Target Application’s Remote API URL field, replace the placeholder with “dotbiz-prod”. The complete URL should read: https://dotbiz-prod.appspot.com/\_ah/remote\_api
4. Click Copy Entities
5. Click the Return to the Datastore Admin link
6. Note the status of the Copy job listed in the Active Operations table. Refresh the page periodically to monitor. The Jobs column will read “(0 steps completed, 1 active)” while the copy process is running. The process usually takes less than 5 minutes.
7. Browse to the production web site and confirm that content has been updated.

### Datastore Admin Console is blank

This is caused by a bug in Google’s OAauth flow. To access the Datastore Admin Console:

1. View the source of the page (right-click > view source, or use Developer menu on Safari/OSX)
2. Press ctrl+f and type “iframe”
3. Copy the link in the “src” attribute of the iframe. It should look similar to: src="<https://ah-builtin-python-bundle-dot-dotbiz-dev.appspot.com/_ah/datastore_admin/?app_id=s~dotbiz-dev&adminconsolecustompage>"
4. Paste this link in a new browser tab
5. When prompted to allow access to your Google account, click Accept
6. Close this tab and return to the blank Datastore Admin page
7. Refresh this page