

QuickSched Install Guide

A lab organizer's guide to setting up their own QuickSched instance
with full feature documentation

Team Magisters

May 3, 2022

Contents

1	Deploying Quicksched	1
1.1	Setting up your AWS Lightsail Instance	1
1.2	Deploy the Django Files	2
1.2.1	A Note on copying and pasting in AWS	3
1.3	Set up your Lab Organizer Account	3
2	Setting up your recruitment email	4
2.1	Make a new Google and Gmail account	4
2.2	Use the email install script	7

1 Deploying Quicksched

This section will walk you through the process of setting up your quicksched instance. It is technically feasible to use other hosting technologies to host an instance of this application, but keep in mind that it was developed with the following documentation below. This deployment assumes an AWS lightsail instance running on a preconfigured bitnami machine.

1.1 Setting up your AWS Lightsail Instance

1. If you have not done so, make an amazon AWS account so that you may purchase a lightsail instance. The link to do so is here: <https://aws.amazon.com/resources/create-account/>.

2. The next step would be to follow the AWS-provided tutorial here: <https://django.how/resources/django-deployment-aws-lightsail/>. Follow the steps until you have Successfully ssh'd into your lighsail instance via your browser. Continuing from there is unnecessary.

1.2 Deploy the Django Files

While you are still connected to you AWS instance, we will now deploy the necessary django files into your httdocs directory.

```

Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 3.13.0-100-generic x86_64)

*** Welcome to the Bitnami WordPress 4.6.1-5 ***
*** Documentation: https://docs.bitnami.com/aws/apps/wordpress/ ***
*** Bitnami Forums: https://community.bitnami.com/ ***
Last login: Wed Dec 7 06:51:25 2016 from [REDACTED]
bitnami@ip-[REDACTED]:~$ cat bitnami_application_password
[REDACTED]
bitnami@ip-[REDACTED]:~$ █

```

WordPress-512MB-Virginia-1
Public IP: [REDACTED] Private IP: [REDACTED]

Copy and paste the following code into your terminal:

```
git clone https://github.com/aliddell0423/QuickSched.git;
```

This clones the repository into your instance.

```
sudo chmod +x QuickSched/install.sh QuickSched/email_setup.sh;
```

This makes the install and email setup script executable.

QuickSched/install.sh

This script will run the lab organizer account setup and database setup for your application.

1.2.1 A Note on copying and pasting in AWS

In order to copy and paste to the command prompt, you will need to find the clipboard icon on the bottom-right corner of the terminal. There you will find a small register that will act as your clipboard.



Whatever text you put there will be available to paste when you right click into the terminal and click “paste”.

1.3 Set up your Lab Organizer Account

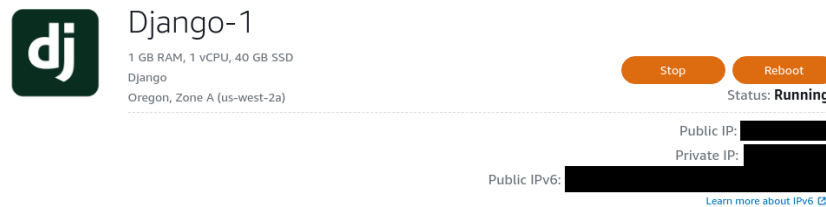
When your Django instance has finished installing, the install script will prompt you for your email and password. The email you use will be the email you enter when you log into your lab organizer account. You will also be prompted to make your password, which will also be used for such.

```

Applying optimization.0005_alter_templateassignment_schedule_version_number... OK
Applying optimization.0006_remove_templateassignment_semester... OK
Applying optimization.0007_remove_templateassignment_lab_template... OK
Applying optimization.0008_templateassignment_schedule_key... OK
Applying optimization.0009_history... OK
Applying optimization.0010_alter_history_relative_node_id... OK
Applying optimization.0011_alter_history_relative_node_id... OK
Applying optimization.0012_alter_history_temp_sched... OK
Applying sessions.0001_initial... OK
Applying teachingassistant.0027_alter_ta_student_id... OK
Installed 120 object(s) from 1 fixture(s)
Email: 

```

Next, find the public IP of your instance and put it in your browser.



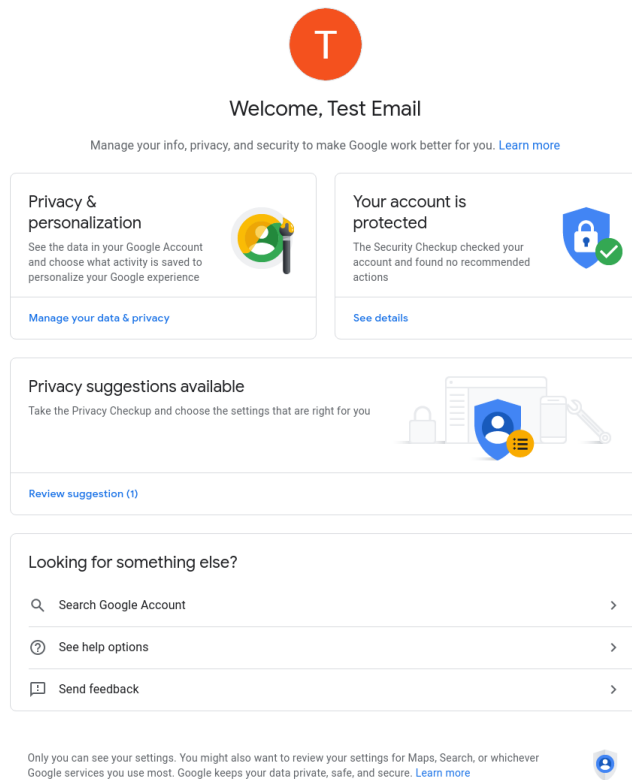
You should be greeted with the login screen for QuickSched, and you should be able to login to your remote instance with the email and password you entered into the prompt. Had you any mistakes during these steps, you can always delete the instance and make a new one with no charges added. That is one of the nice features of lightsail.

2 Setting up your recruitment email

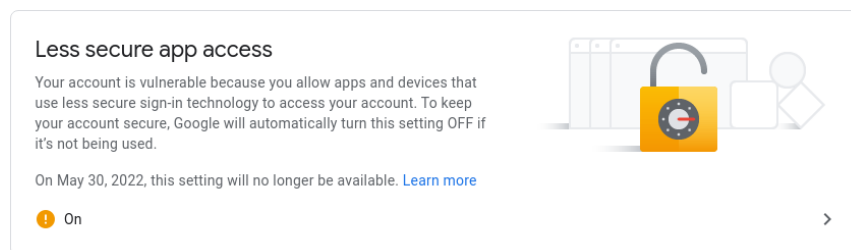
QuickSched has the ability to recruit mass TA's for your scheduling via emails. This part of the tutorial will show you how you can set up a free email via gmail to send your TA's temporary passwords and create their accounts. In order to do this, you will need to use a script as well as change some security defaults google has with their accounts.

2.1 Make a new Google and Gmail account

First use this link to make a new google account. You may make the name of the email what you wish, but just make sure to remember it for later. After you have completed the signup process, your page should look like this.

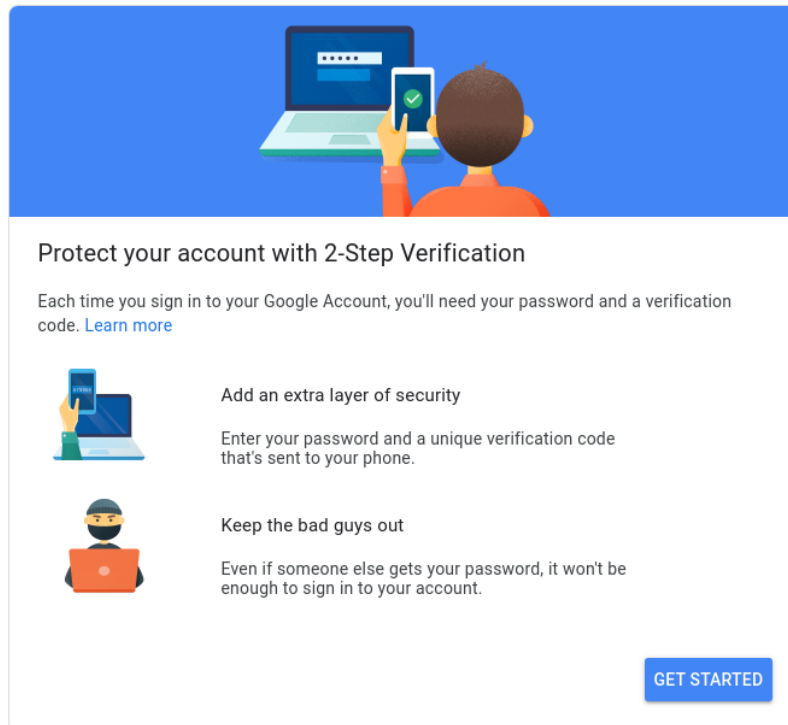


On the left side of that home page, click on the “Security” tab. Scroll down until you see the “Less secure apps option”. Click that option and set it to on. If you are reading this after May 30th, 2022, then this option has been depreciated. If this is the case, skip to the next step.



Next, you will want to enable 2-step verification to your gmail account. On the top-left side of the google account home, use the search bar to find “2-Step Verification”. Follow the steps in order to enable it.

← 2-Step Verification



After enabling twostep verification, you are now ready to set an app password for your gmail account that Django can access.

In the same google account home page, now search for “App Passwords”. Click it, and follow the steps to set the app password. Naming it Django would be a good idea.

← App passwords

App passwords let you sign in to your Google Account from apps on devices that don't support 2-Step Verification. You'll only need to enter it once so you don't need to remember it. [Learn more](#)

You don't have any app passwords.

Select the app and device you want to generate the app password for.

Django| ×

GENERATE

You will then be presented with your 16 digit password. Record it, because you will need it to set up your emailing system for your quicksched instance.

2.2 Use the email install script

Go back to the AWS instance connected via ssh and run the email setup script.

```
QuickSched/email_setup.sh;
```

Lastly, restart the apache engine and your setup is complete.

```
sudo /opt/bitnami/ctlscript.sh restart apache
```

You should now be able to recruit TA's via your email! Refer to the instructional documentation to look into how to set up your quicksched instance from here.