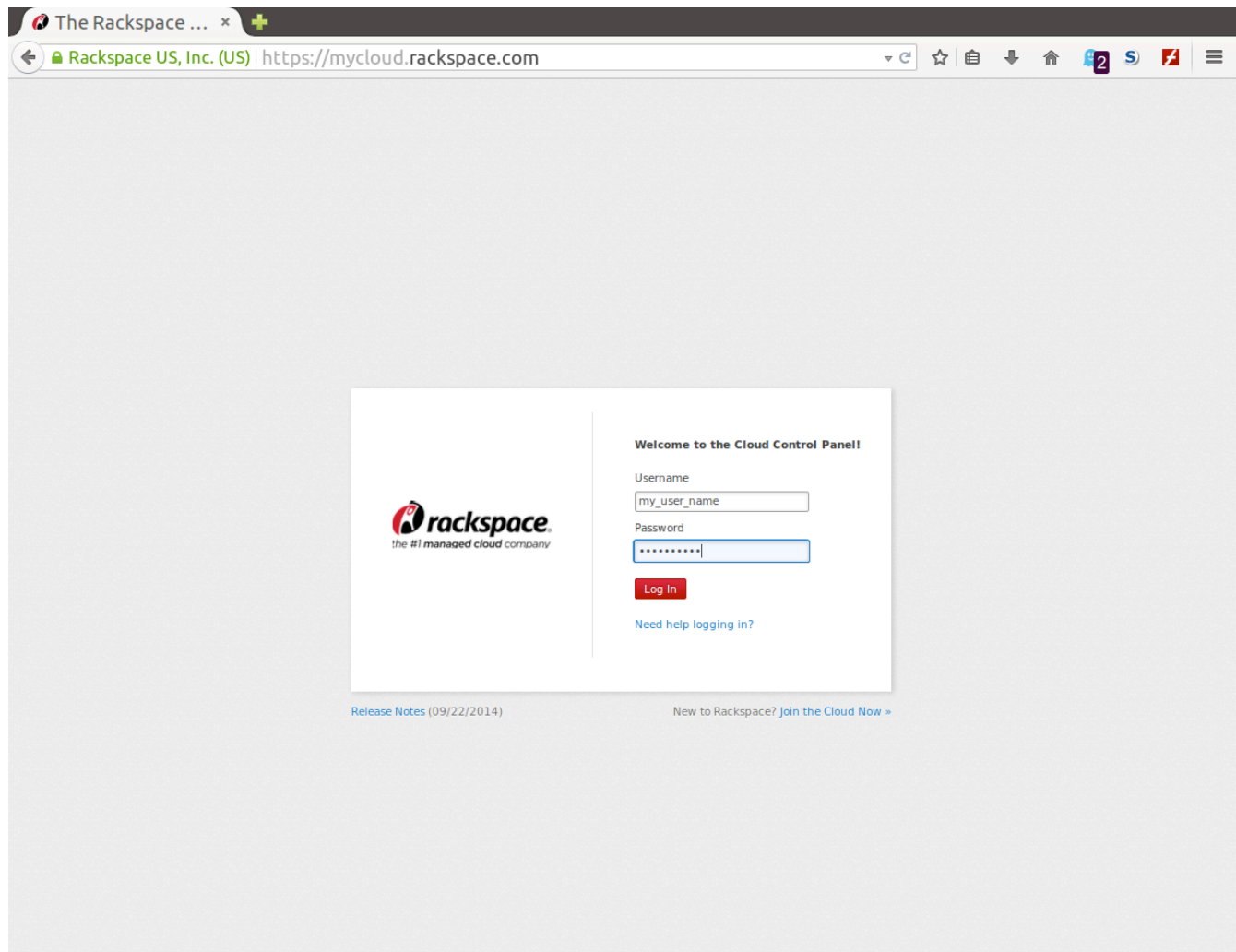
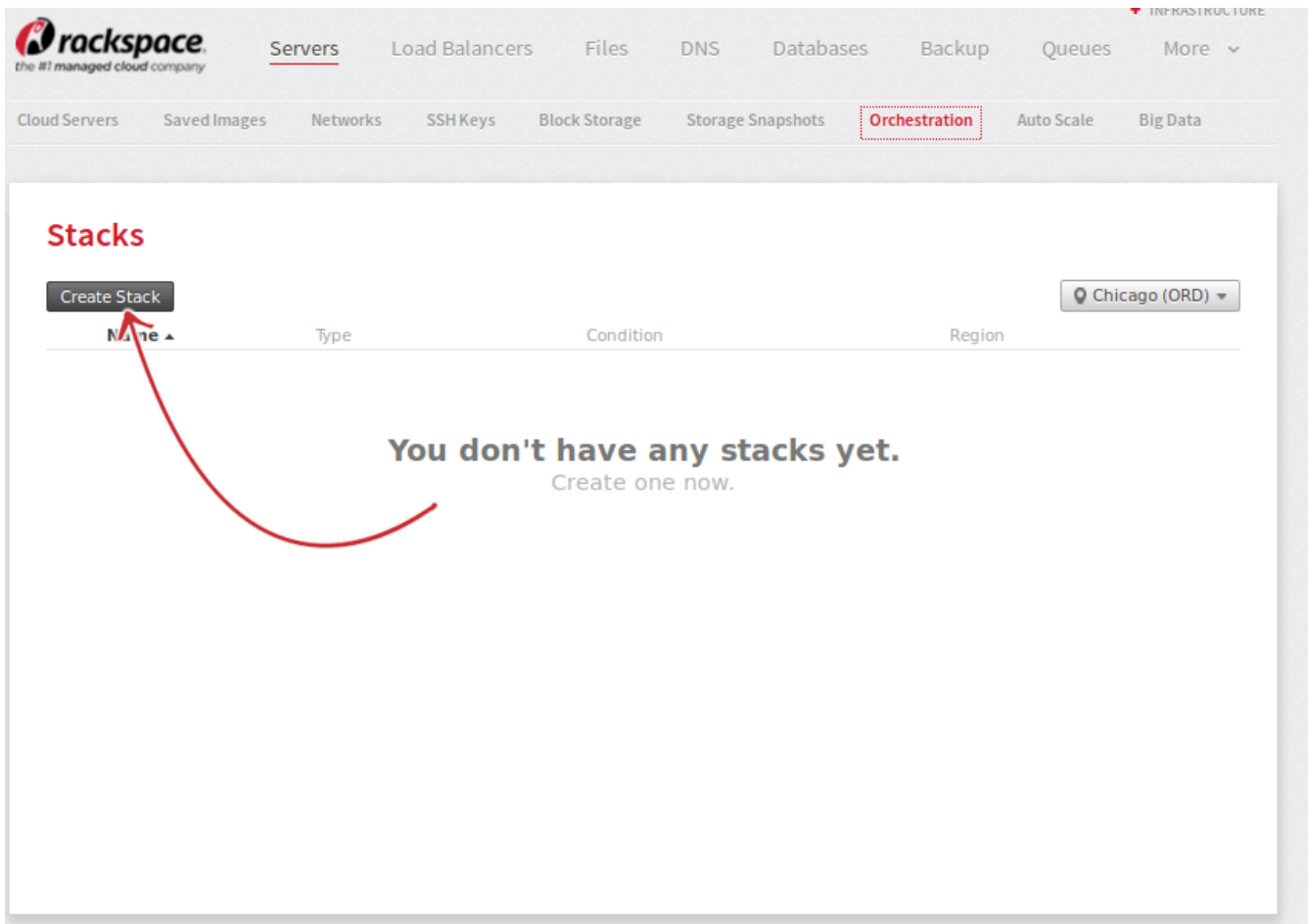


INSTALLING THE USHAHIDI PLATFORM ON RACKSPACE CLOUD USING CLOUD ORCHESTRATION

1. Log into the Rackspace Cloud Control panel at <https://mycloud.rackspace.com>.



2. Under Servers → Orchestration, click “Create Stack”



3. On the Create Stack page, give your stack a suitable name, select an appropriate region, select the PHP → Multiple Linux servers with Cloud Databases template, and then click “Next Step”:

rackspace
the #1 managed cloud company

Servers Load Balancers Files DNS Databases Backup Queues More ▾

Cloud Servers Saved Images Networks SSH Keys Block Storage Storage Snapshots **Orchestration** Auto Scale Big Data

[Back to Stack List](#)

Create Stack

Rackspace Template Custom Template

Stack Details

Stack Name

Region

Template

Application Name	Flavor	Description
ownCloud	Single Linux Server	Multiple PHP 5 servers with Apache, Varnish, and Memcached behind a Cloud Load Balancer, with a Cloud Database.
PHP	Multiple Linux servers	Multiple Linux servers with Cloud Databases
Rails	Multiple Linux servers with Cloud Databases	This deployment is intended for development and production use cases incurring medium to high traffic scenarios. This deployment is easily scalable and is appropriate for high traffic events.
Redis		
SaltStack		
StrongLoop		
Umbraco		
Vesta		
WebPageTest		
WordPress		

[Customize this Rackspace Template...](#)

Template Versions

SELECTING THE IDEAL VERSION

Choose a Template flavor based on future traffic needs. Starting with multiple servers is easier than scaling up a single server.

[More About Template Selection »](#)

HELP ME WITH...

- [How Stacks Work](#)
- [What Rackspace Supports](#)

[Learn More About Orchestration »](#)

WHAT'S NEXT?

- [Access My Application](#)
- [Enable Monitoring](#)
- [Understanding Errors](#)

[Visit Our Knowledge Center »](#)

Next Step » [Cancel](#)

4. Once you are on the Create Stack customization page, modify the following settings, and then click “Create Stack”:

Server Size: 2 GB Performance

Database Username: ushahidiuser

Git Repository: https://github.com/ushahidi/Ushahidi_Web.git

System Packages: php5-curl,php5-gd,php5-mcrypt,php5-mysql

Site Domain: domain name of your choosing (myushahidi.com for our example)

rackspace
the #1 managed cloud company

Servers Load Balancers Files DNS Databases Backup Queues More ▾

Cloud Servers Saved Images Networks SSH Keys Block Storage Storage Snapshots **Orchestration** Auto Scale Big Data

[← Back to Stack List](#)

Create Stack

Server Settings

Operating System ?

Server Size ?

Server Count ?

Database Settings

MySQL Version ?

Cloud Database Size ?

Database Size ?

Database Username ?

PHP Application Settings

Git Repository ?

System Packages ?

Site Domain ?

Site Path ?

Git Deploy Key ?

Public Directory ?

Revision ?


[« Back](#) [Create Stack](#) [Cancel](#) 3

Stack Summary

View Stack's infrastructure with estimated prices by clicking the button below.

[Calculate Price](#)

5. This is a good time to take a quick break, as we wait for the stack to build. Once completed, our Stack Details page should look similar to the following:



Servers

Load Balancers

Files

DNS

Databases

Backup

Queues

More ▾

Cloud Servers

Saved Images

Networks

SSH Keys

Block Storage

Storage Snapshots

Orchestration


Auto Scale

Big Data

[Back to Stack List](#)

STACK

Ushahidi



Actions ▾

Stack Details

Status


Up

Deployed on Oct 5, 2014 - 2:05 PM CDT

Region

Chicago (ORD)

Version

 PHP

Cloud Database Host

1f83cfc1b5b0aeebf9c591764ba4d066a5693c45.rackspaceclouddb.com

Load Balancer IP

104.130.89.50

Server Public IPs

23.253.206.136
23.253.214.190

Database Name

app_data

Cloud Database User

ushahidiuser

Credentials

[View 2 Credentials](#)

Managing Stacks

STACK MAINTENANCE

Manage resources created for this stack in their respective sections. Note that deleting one or more resources will likely make the Stack unstable and possibly inoperable.

[More About Orchestration »](#)

HELP ME WITH...

[Access My Application](#)

[Enable Monitoring](#)

[Understanding Errors](#)

[More About Our API »](#)

Infrastructure

Name	Type	Build Status
PHP-Load-Balancer	Load Balancer	Active
app db	Database Instance	Active

6. Next, we will need to SSH into one of our php application servers. In order to do so, click on the link that says “View 2 Credentials” on the Stack details page. Cut and paste the SSH Private Key into a file on your local workstation/laptop. **Leave this page open! You will need it later.**

STACK

Ushahidi

Actions

Stack Details

Status

Up

Deployed on Oct 5, 2014 - 2:05 PM CDT

Region

Chicago (ORD)

Version

PHP

Cloud Database Host

1f83cfc1b5b0aeebf9c591764ba4d066a5693c45.rackspaceclouddb.com

Load Balancer IP

104.130.89.50

Server Public IPs

23.253.206.136
23.253.214.190

Database Name

app_data

Cloud Database User

ushahidiuser

Credentials

Stack Credentials

SSH Private Key:

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEA0AsTiugroileXjeqVgPabjdsM+Ruwpfd3R84xNBT
/QVGomH
Th5MCA+2JttL3pNB5hDycjGxaNuTCFx8nCebAAK3HE5faHsCAyH69J
HCkvZW3q
XajfLITBOecz+pem/TpULR3c7NG5TT6G22zbj9H/42HJe
/V32965wvzWDokIDvQ
3/vf9piUJ
/jHk3qRJe4OQjCfDpWowgVPzld7xQC9R+FL47q2CkvFduN7uStx2Qf
4K/ffxJlayK1jVeJYW2aDmhvRCiIFXFW
/pD8sJaKwsGdXOpzg6lxVblxpvA5RE
tDO8/HT1HsN25wAzEeCISQJ+N+5vt0jKimPi7wiDAQABAolBAQChDV

Cloud Database Password:

AMnQBgSUIY0p51Z0

Close

Infrastructure

Name

PHP-Load-Balance

app_db

php

php

Managing Stacks

STACK MAINTENANCE

Manage resources created for this stack in their respective sections. Note that deleting one or more resources will likely make the Stack unstable and possibly inoperable.

[More About Orchestration >](#)

HELP ME WITH...

Access My Application

Enable Monitoring

Understanding Errors

[More About Our API >](#)

7. One we have the SSH Private Key in a file, let's use that to SSH into the first of our php application servers and download the localization submodule:

(On your workstation)

```
$ vi id_ushahidi #putting SSH Private Key in this file
$ chmod 0600 id_ushahidi
$ ssh -i id_ushahidi root@<ip of php application server>
```

(On your server)

```
# cd /var/www/vhosts/application/current/application/i18n
# git clone https://github.com/ushahidi/Ushahidi-Localizations .
# chown -R www-data: .
```

8. We also need to modify our site's apache config to allow Clean URL's(i.e. <http://ip/admin> vs <http://ip/index.php/admin>). As per <https://wiki.ushahidi.com/display/WIKI/Enabling+Clean+URLs>, open up your site's configuration file with vi, and change the following AllowOverride statement from None to All.

```
# vi /etc/apache2/sites-enabled/myushahidi.com.conf

<Directory /var/www/vhosts/application/current/>

    Options FollowSymLinks

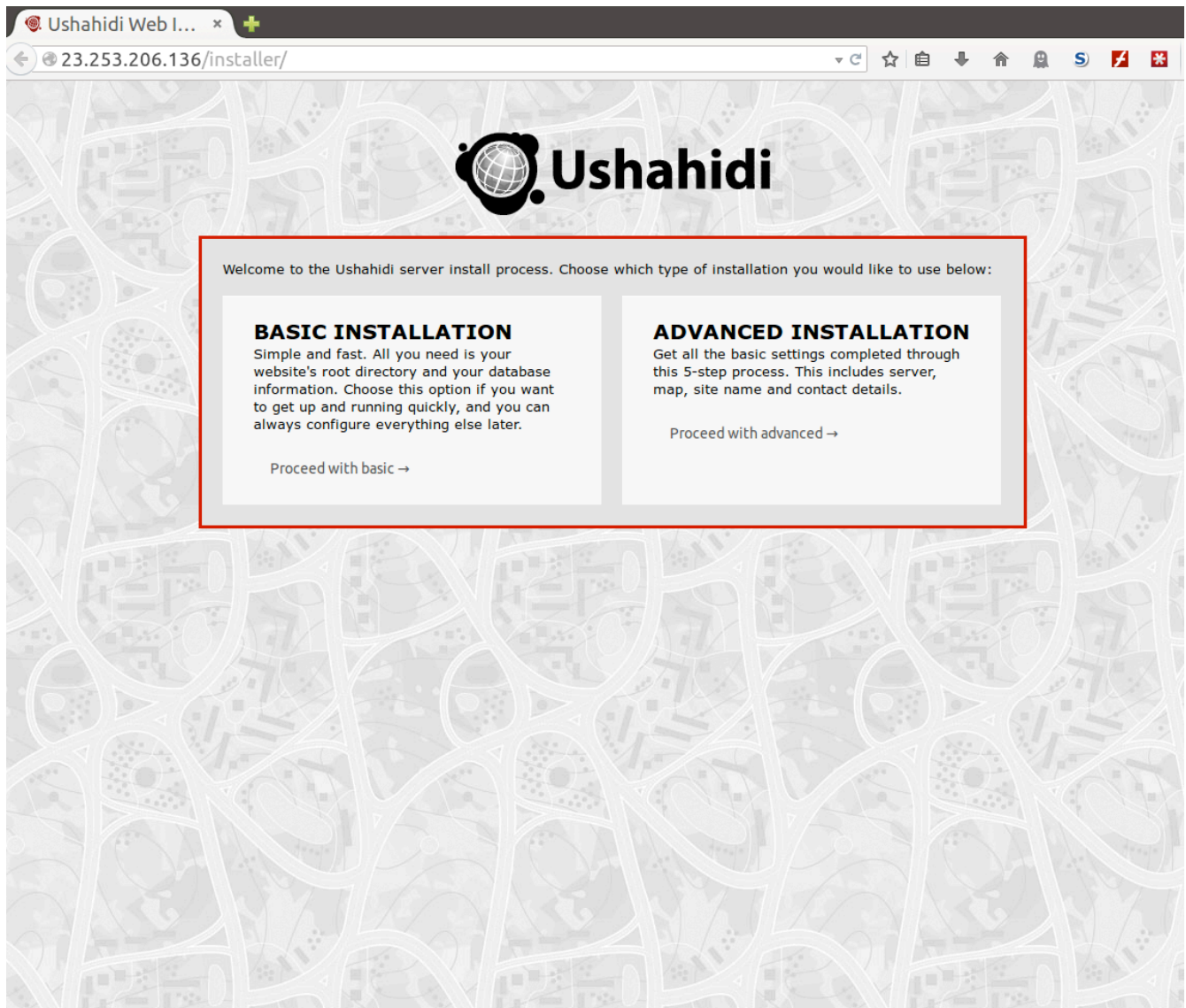
    AllowOverride All
    Order allow,deny

    Allow from all

</Directory>

# service apache2 restart
```

9. Next, browse to the installer page on the same php application server you configured in #7 and #8, and click “Proceed with basic”:




10. Before we get started, you will need the following pieces of information from the Stack Details page:

1. Database name
2. Database username
3. Database password(see View 2 Credentials)
4. Database host

Click “Let's get started!” when ready:



11. Fill in the Database details, and click “Continue” when ready.



1. **Database** 2. General 3. Admin Password 4. Finished

Database Name The name of the database you want to run Ushahidi in.

User Name Your database username.


Password Your database password.

Database Host If you are running Ushahidi on your own computer, this will more than likely be "localhost". If you are running Ushahidi from a web server, you'll get your host information from your web hosting provider.

Table Prefix Normally you won't change the table prefix. However, if you want to run multiple Ushahidi installations from a single database you can do that by changing the prefix here.

[Continue →](#)

12. Fill in the General details, and click “Continue” when ready.



The image shows the Ushahidi installation wizard's 'General' configuration step. The background is a light gray map pattern. A red rectangular box highlights the configuration form. At the top of the form, a progress bar shows four steps: 1. Database, 2. General (highlighted), 3. Admin Password, and 4. Finished. Below the progress bar, there are five configuration fields, each with a label, an input field, and a description. The fields are: Site Name (myushahadi.com), Site Tagline (Some Interesting Tagline), Default Language (English (US)), Site Email Address (someemailaddy@na.na.na), and Enable Clean URLs (Yes). At the bottom of the form, there are two buttons: '← Previous' and 'Continue →'.

Ushahidi

1. Database 2. **General** 3. Admin Password 4. Finished

Site Name myushahadi.com The name of your site.

Site Tagline. Some Interesting Tagline Your tagline

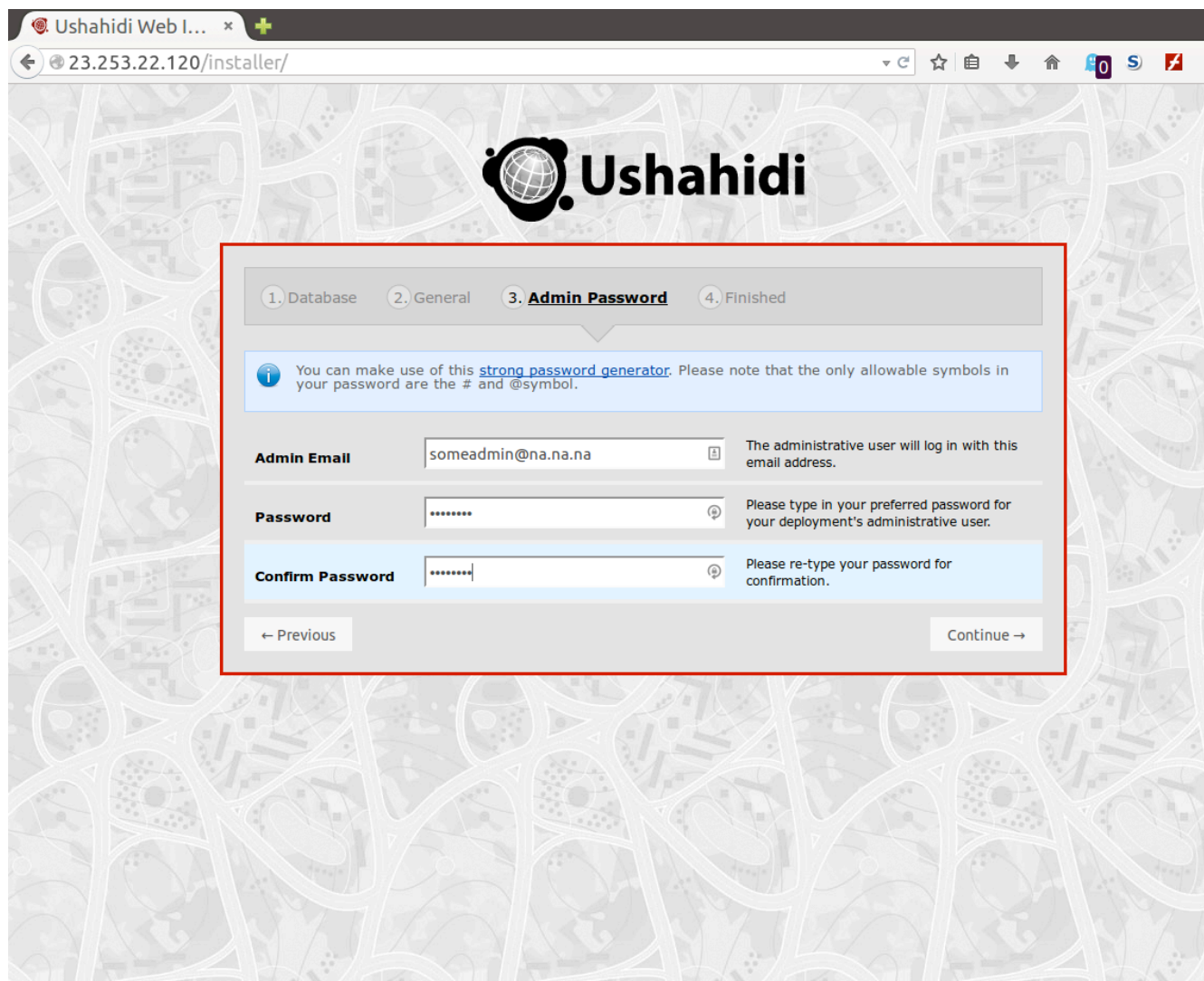
Default Language (Locale) English (US) ⌵ Each Ushahidi deployment comes with a set of built in language translations. You can also [add your own](#).

Site Email Address someemailaddy@na.na.na Site wide email communication will be funneled through this address.

Enable Clean URLs Yes ⌵ This option makes Ushahidi to be accessed via "clean" URLs without "index.php" in the URL.

← Previous Continue →

13. Fill in the password admin page, and click continue when ready.



The screenshot shows a web browser window with the address bar displaying "23.253.22.120/installer/". The page features the Ushahidi logo at the top center. Below the logo, a progress bar indicates four steps: 1. Database, 2. General, 3. Admin Password (highlighted), and 4. Finished.


A blue information box contains the text: "You can make use of this [strong password generator](#). Please note that the only allowable symbols in your password are the # and @symbol."

The form includes three input fields:


- Admin Email:** The input field contains "someadmin@na.na.na". To the right, a note states: "The administrative user will log in with this email address."
- Password:** The input field contains seven asterisks. To the right, a note states: "Please type in your preferred password for your deployment's administrative user."
- Confirm Password:** The input field contains seven asterisks. To the right, a note states: "Please re-type your password for confirmation."


At the bottom of the form, there are two buttons: "← Previous" on the left and "Continue →" on the right.


13. Fill in the Admin account information, and click “Continue” when ready.




1. Database 2. General 3. **Admin Password** 4. Finished

 You can make use of this [strong password generator](#). Please note that the only allowable symbols in your password are the # and @symbol.

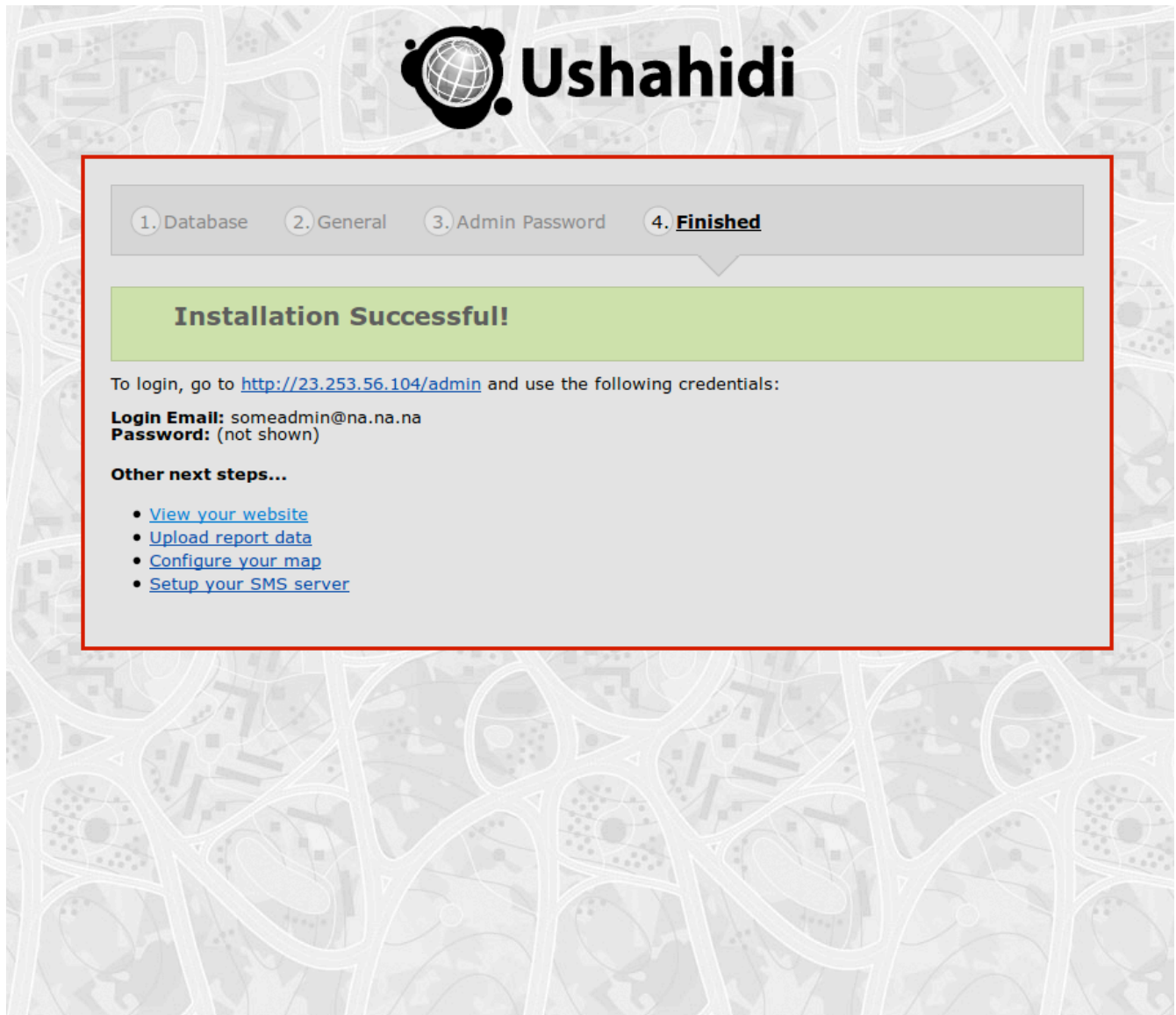
Admin Email  The administrative user will log in with this email address.

Password  Please type in your preferred password for your deployment's administrative user.

Confirm Password  Please re-type your password for confirmation.

[← Previous](#) [Continue →](#)

14. If all went well, then you should have:



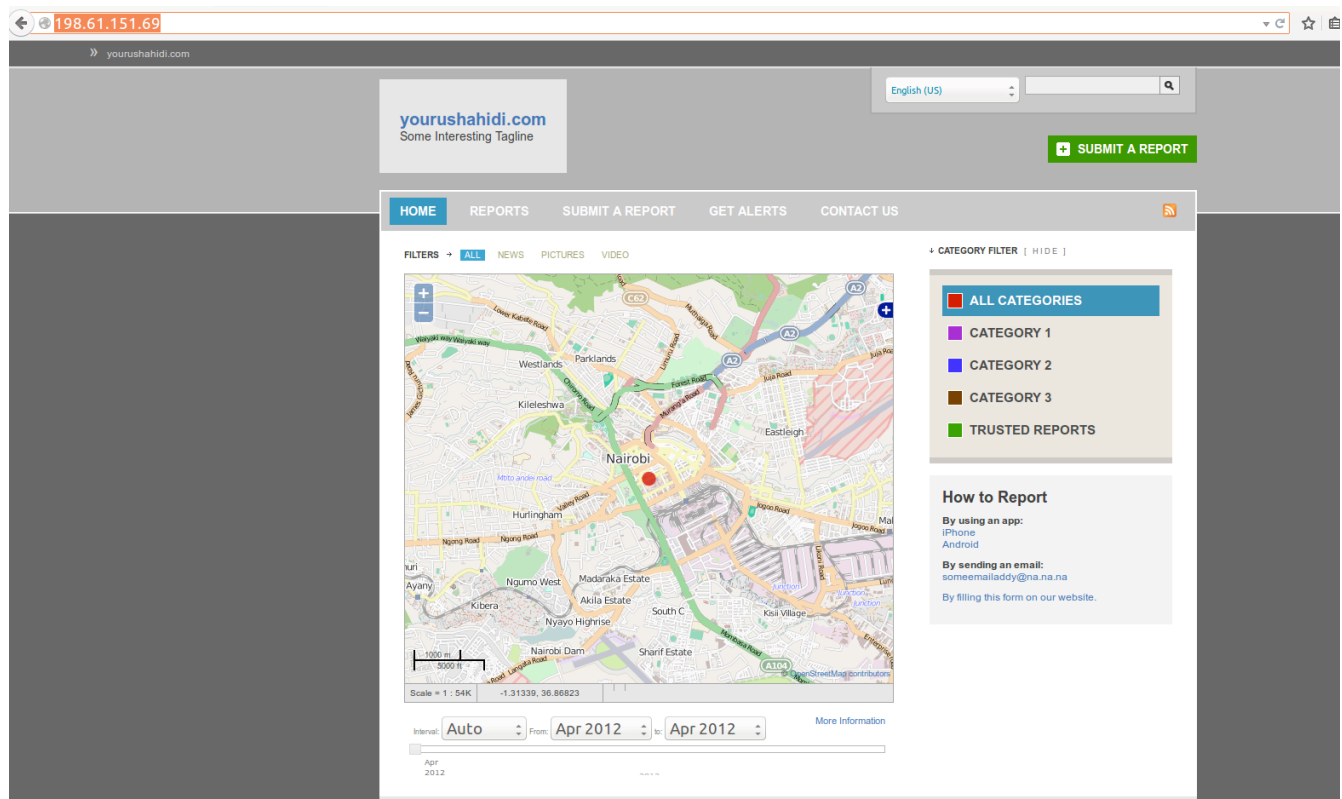
14. Now let's go ahead and rsync our application from the node we just configured, over to our other node. Assuming you are SSH'd into our just configured application node, go ahead and create another id file for SSH, and rsync over the application directory to the other node:

```
$ vi id_ushahidi
$ chmod 0600 id_ushahidi
$ eval `ssh-agent`
$ ssh-add id_ushahidi
$ rsync -azpP --delete /var/www/vhosts/application/current/application/config\
root@<ip of other server>:/var/www/vhosts/application/current/application/config
```


15. Now let's go ahead and rsync our application from the node we just configured over to our other node. Assuming you are SSH'd into our just configured application node, go ahead and create another id file for SSH, and rsync over the application directory to the other node:

```
# vi id_ushahidi
# chmod 0600 id_ushahidi
# eval `ssh-agent`
# ssh-add id_ushahidi
# rsync -azpP --delete /var/www/vhosts/application/current/ \
root@<ip of other server>:/var/www/vhosts/application/current/
# scp -i id_ushahidi /etc/apache2/sites-enabled/myushahidi.com.conf \
root@<ip of other server>:/etc/apache2/sites-enabled/myushahidi.com.conf
# ssh root@<ip of other server> service apache2 restart
```

16. Now, go ahead and browse to http://(you load balancer IP)



16. Todo:

- Remove installer
- Add DNS records
- Configure SSL certificates
- Configured shared storage using gluster for media/uploads directory replication