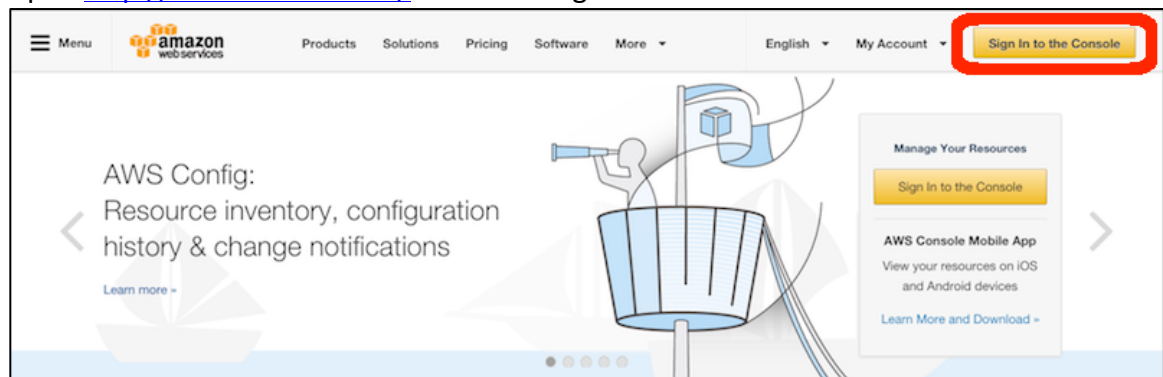


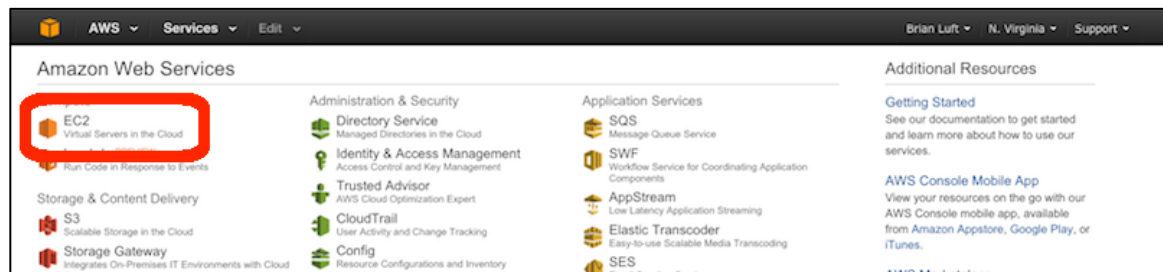
## Installing the Server

These instructions will walk you through setting up a new Amazon EC2 virtual machine running Ubuntu 14.04 LTS, the WinChatty Server backend, and TheNiXXeD's chatty frontend. The free tier-eligible t2.micro instance will work fine for this, since we will be using a miniature database containing a small number of posts rather than the full ~30 million post database.

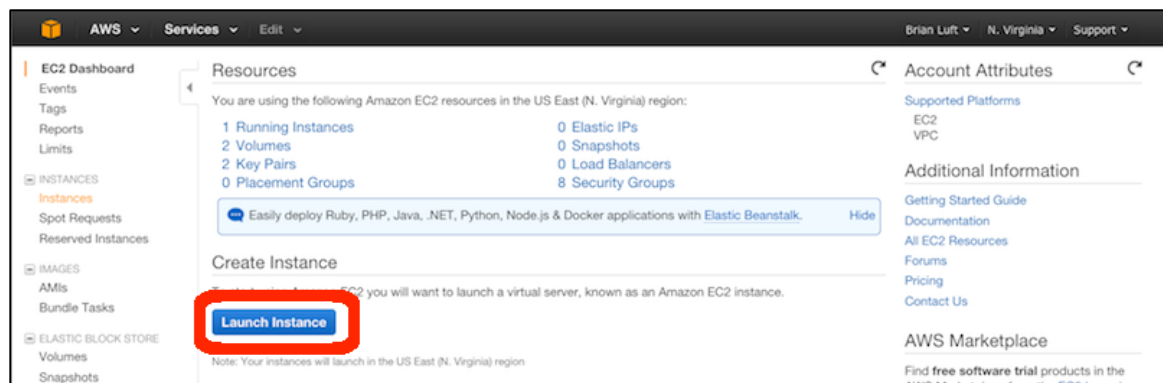
1. Create a new Shacknews user account dedicated to the chatty server. Choose a password containing only alphanumeric characters. Log in as that user, and turn on all of the moderation filters. Then sign out.
2. Open <http://aws.amazon.com/> and click "Sign In to the Console."



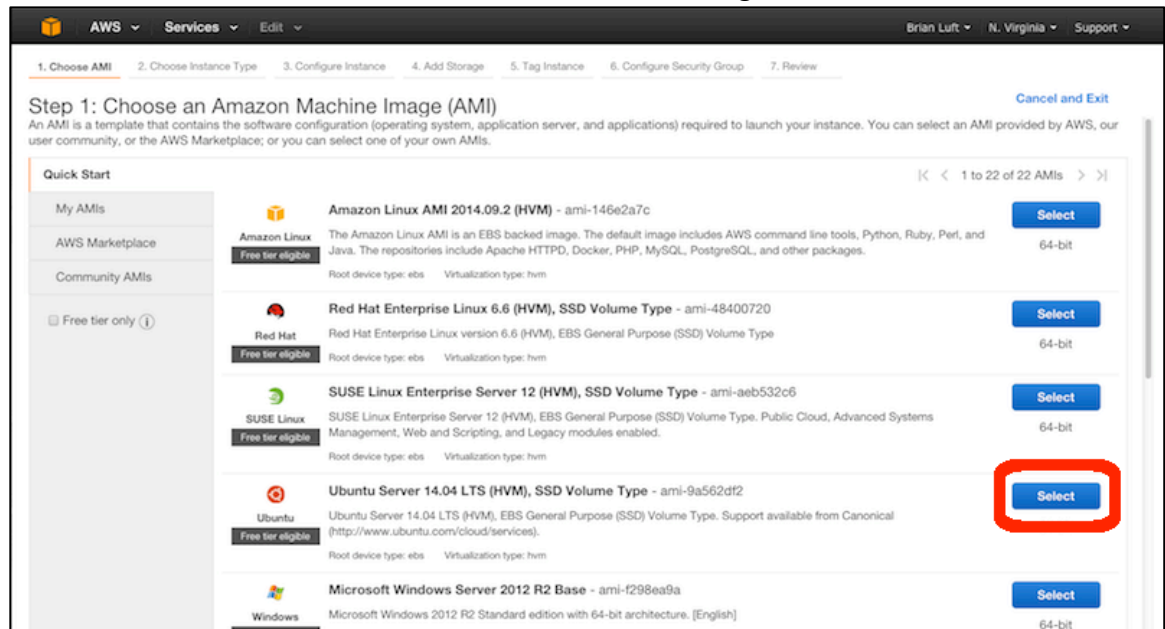
3. Click "EC2 – Virtual Servers in the Cloud."



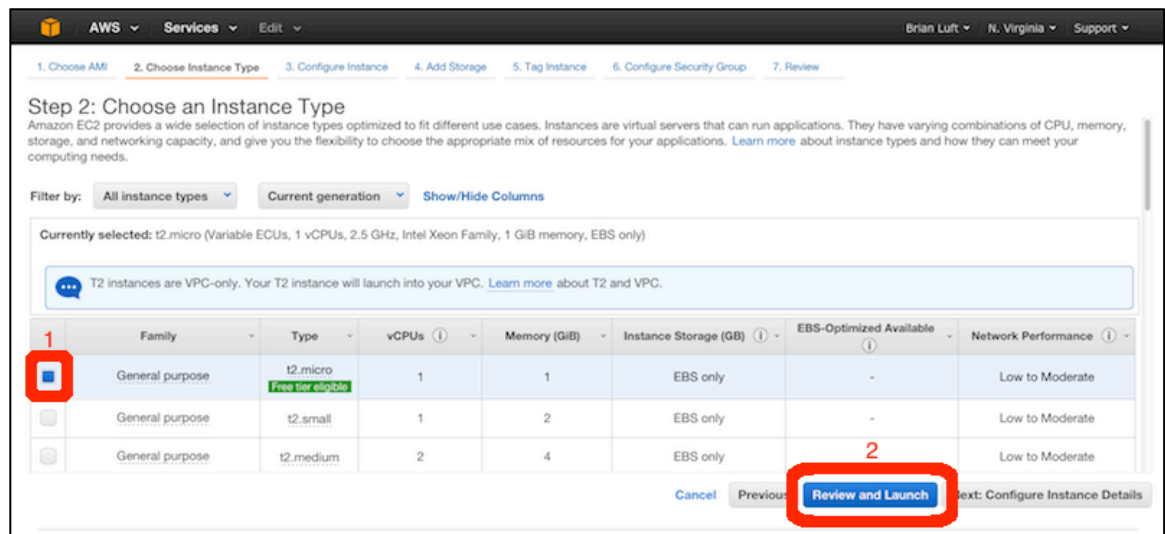
4. Click "Launch Instance."



- Click "Select" next to the "Ubuntu Server 14.04 LTS" image.



- Click the checkmark next to the "t2.micro (Free tier eligible)" instance type, and then click "Review and Launch."



7. Click “Edit security groups”.

**Step 7: Review Instance Launch**  
Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**Improve your instances' security. Your security group, launch-wizard-4, is open to the world.**  
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

**AMI Details** [Edit AMI](#)  
Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9a562df2  
Free tier eligible  
Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).  
Root Device Type: ebs Virtualization type: hvm

**Instance Type** [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

**Security Groups** [Edit security groups](#)

Security group name: launch-wizard-4  
Description: launch-wizard-4 created 2015-02-14T19:19:42.004-04:00

8. Click “Add Rule” twice, and then change the two new rules to “HTTP” and “HTTPS.” There should be three rules total: SSH, HTTP, and HTTPS. Then, click “Review and Launch.”

**Step 6: Configure Security Group**  
A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name: launch-wizard-4  
Description: launch-wizard-4 created 2015-02-14T19:19:42.004-04:00

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere 0.0.0.0/0
HTTP	TCP	80	Anywhere 0.0.0.0/0
HTTPS	TCP	443	Anywhere 0.0.0.0/0

[Add Rule](#) [Cancel](#) [Previous](#) [Review and Launch](#)

9. Click “Launch.”

**Step 7: Review Instance Launch**  
Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**Improve your instances' security. Your security group, launch-wizard-4, is open to the world.**  
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

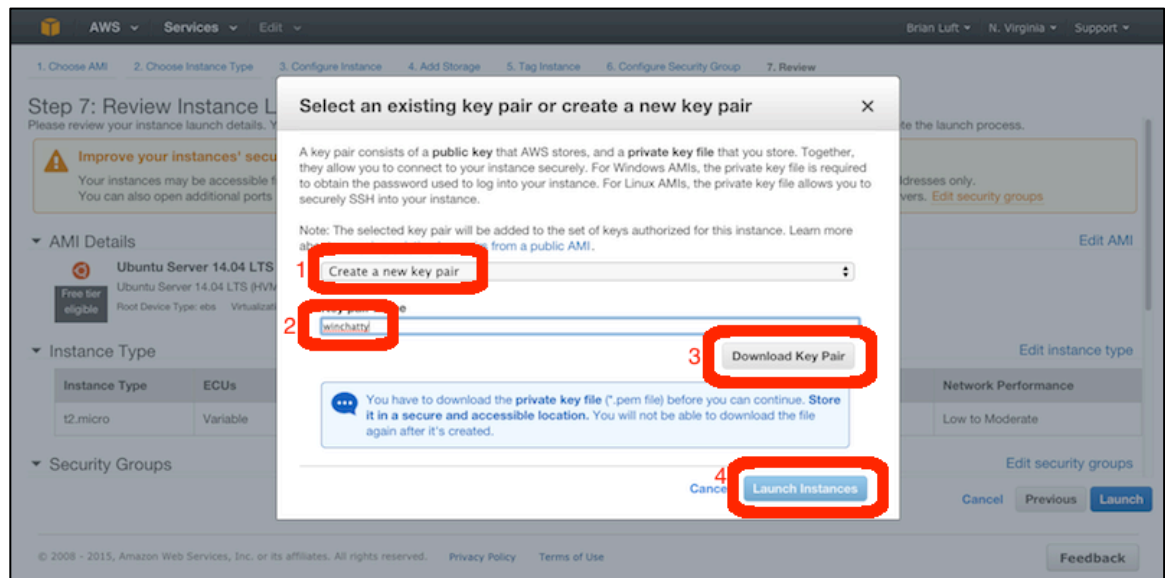
**AMI Details** [Edit AMI](#)  
Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9a562df2  
Free tier eligible  
Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).  
Root Device Type: ebs Virtualization type: hvm

**Instance Type** [Edit instance type](#)

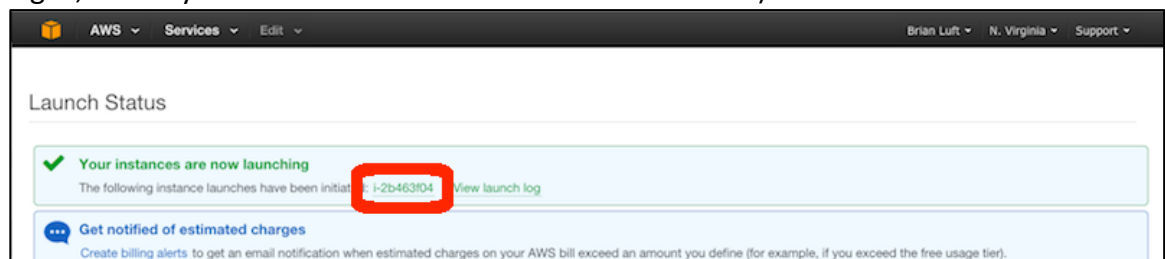
Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

[Cancel](#) [Previous](#) [Launch](#)

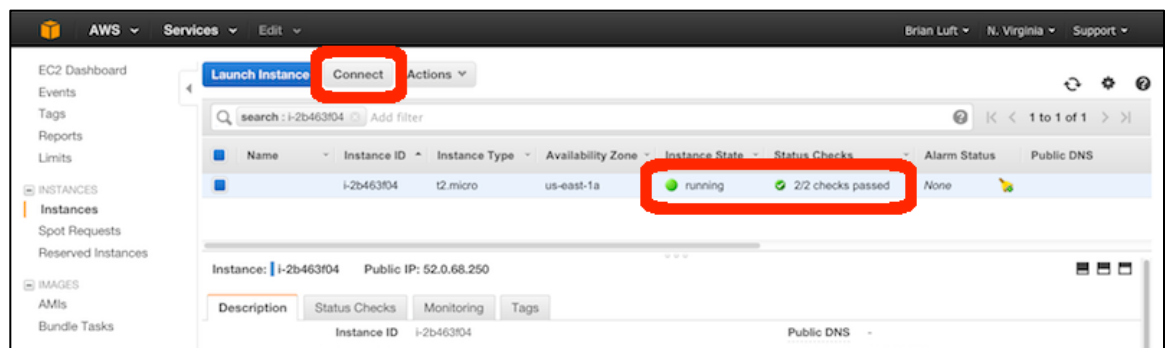
10. A popup will appear. Select “Create a new key pair” from the dropdown. Then enter “winchatty” (or whatever you’d like) into the name field. Then click “Download Key Pair.” Save the file to somewhere safe, perhaps in your home folder. Then click “Launch Instances.”



11. Click the name of your instance (usually something like “i-” and then some hex digits, unless you entered a custom name for the instance).



12. After a few minutes, it will say “running” and “2/2 checks passed” for your instance. Click “Connect.”



13. This will bring up a window with instructions on how to connect. Follow those instructions. When you've connected successfully, you will see the Linux command prompt.

```
System information as of Sat Feb 14 23:30:10 UTC 2015

System load: 0.24          Memory usage: 5%   Processes:      82
Usage of /:  9.8% of 7.74GB Swap usage:  0%   Users logged in: 0

Graph this data and manage this system at:
  https://landscape.canonical.com/

Get cloud support with Ubuntu Advantage Cloud Guest:
  http://www.ubuntu.com/business/services/cloud

0 packages can be updated.
0 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

ubuntu@ip-172-30-0-155:~$
```

14. Enter the following commands, filling in the Shack credentials where specified.

```
sudo su
export OWNER=me
export SHACK_USERNAME=<username of the Shack account you created>
export SHACK_PASSWORD=<password of the Shack account you created>
export DUMP_FILE=chatty-sample.sql.gz
wget http://tinyurl.com/winchatty-server-install
bash winchatty-server-install
```

15. After a few minutes you should see the message "Installation complete. You must reboot." Enter the command "reboot". You will be disconnected from the virtual machine.

16. Wait a few minutes, and then reconnect via SSH. Type “log-indexer” to monitor the log of the chatty indexer. It will take some time for the indexer to download all of the posts that have been made since the database snapshot was made. When it has finished the initial indexing, you will see it start to show posts with “---” as the text. This means it requested a post that doesn’t exist yet; this is an indication that it has caught up.

```
N 33117623 ---
Updating LOL counts...
N 33117623 ---
N 33117623 The real problem is you put a hot pa : realplumb 02/14/15 18:38
N 33117624 Fix it!!!! : justwr!ght 02/14/15 18:38
N 33117625 ---
Checking for nuked threads...
R 33113587 * N U K E D *
N 33117625 ---
N 33117625 ---
```

17. On your local computer, open “C:\windows\system32\drivers\etc\hosts” in Notepad as an administrator (Windows) or run “sudo pico -w /etc/hosts” from the Terminal (OS X). Add the following two lines:

```
1.2.3.4      winchatty.com
1.2.3.4      www.winchatty.com
```

Replace 1.2.3.4 with the IP address of your server (the one you use to connect via SSH). On Windows, run “ipconfig /flushdns”. Close the command prompt/Terminal window

18. Open <https://winchatty.com> in your browser. You should get a warning about a self-signed SSL certificate; this indicates that you are now connecting to your server rather than the official winchatty.com site (which has a real certificate).
19. Open <http://winchatty.com/frontend/> in your browser. You should see the chatty – this is your server on both the backend and frontend. Congratulations!