



> RubyThursday

## Ruby Snack #33

Deploy to AWS EC2 - Part 3:  
Launch EC2 and install  
Ruby with RVM

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# What You'll Learn in this Episode



- Launch an EC2 Ubuntu instance
- SSH into server using .pem file
- Set up unattended-upgrades
- Create deploy user
- Install Ruby with RVM

# Want To Code Along?



Amazon Account Set up with IAM user

<http://rubythursday.com/episodes/ruby-snack-31-deploy-to-aws-ec2-part-1>

With Key Pair and Security Group

<http://rubythursday.com/episodes/ruby-snack-32-deploy-to-aws-ec2-part-2>

# Launch EC2



1. Sign in as IAM user `https:// your_aws_account_id.signin.aws.amazon.com/console/`
2. Open the Amazon EC2 console
3. Click Launch Instance.
4. Choose an AMI -- I'm using Ubuntu
5. Choose an Instance Type -- t2.micro
6. Choose Edit security groups -- select your security group
7. Click Review and Launch then Launch
8. Choose an existing key pair
9. Click View Instances

# SSH into Server



1. Copy public DNS name of the instance
2. Use the **ssh** command to connect to the instance. Use "ubuntu" as the user for now if you installed Ubuntu AMI.

```
$ ssh -i /path/my-key-pair.pem ubuntu@public-dns
```

Example:

```
$ ssh -i ~/.ssh/melissa-key-pair-us-west.pem ubuntu@ec2-52-40-99-186.us-west-2.compute.amazonaws.com
```

# Set up Deploy User



1. Create Deploy User:

```
$sudo adduser deploy
```

2. Enter password -- be sure to write it down!
3. Enter name and blank for other options
4. Enter "Y" that the info is correct
5. Add Deploy to Sudo group:

```
$sudo adduser deploy sudo
```

6. Switch to deploy user:

```
$ sudo su - deploy
```

# Set up Deploy User (cont.)



7. Create a `.ssh` directory:

```
$ mkdir .ssh
```

8. Change the file permissions of the `.ssh` directory to 700:

```
$ chmod 700 .ssh
```

9. Create a file named "authorized\_keys" in the `.ssh` directory:

```
$ touch .ssh/authorized_keys
```

10. Change the file permissions of the `authorized_keys` file to 600:

```
$ chmod 600 .ssh/authorized_keys
```

11. Edit the `authorized_keys` file with your favorite text editor and paste the public key for your key pair into the file:

```
$ nano ~/.ssh/authorized_keys
```

# Install unattended-upgrades



1. Update package lists: `$sudo apt-get update`

2. Most likely installed but just in case:

```
$sudo apt-get install unattended-upgrades
```

3. Enable the program:

```
$sudo dpkg-reconfigure unattended-upgrades
```

Note: when you want to upgrade non-security upgrades

```
$sudo apt-get update
```

```
$sudo apt-get upgrade
```



# Install RVM



1. Add key for RVM:

```
$ gpg --keyserver hkp://keys.gnupg.net --recv-keys  
409B6B1796C275462A1703113804BB82D39DC0E3
```

2. Install RVM:

```
$ \curl -sSL https://get.rvm.io | bash -s stable --ruby
```

3. Install version you need if different than what installed

```
$ rvm install ruby-3.2.1
```

4. Set as default

```
$ rvm --default use 3.2.1
```

# Install Git and Bundler



```
$ sudo apt-get install git-core
```

```
$ sudo gem bundler install
```

# Install Other Software



Database Software (Postgres or MySQL), Imagmagick (if needed), Passenger, and Apache

<http://rubythursday.com/episodes/ruby-snack-13-deploy-to-digital-ocean-part-2>

**\*\*Note:** Next episode we'll be setting up AWS RDS so no need to set up the database if you'll be setting up an RDS. You still need to install the software .

## Resources:



[http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2\\_GetStarted.html](http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html)

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AccessingInstancesLinux.html>

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/managing-users.html>



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