

## Solution: Init Script Exercise

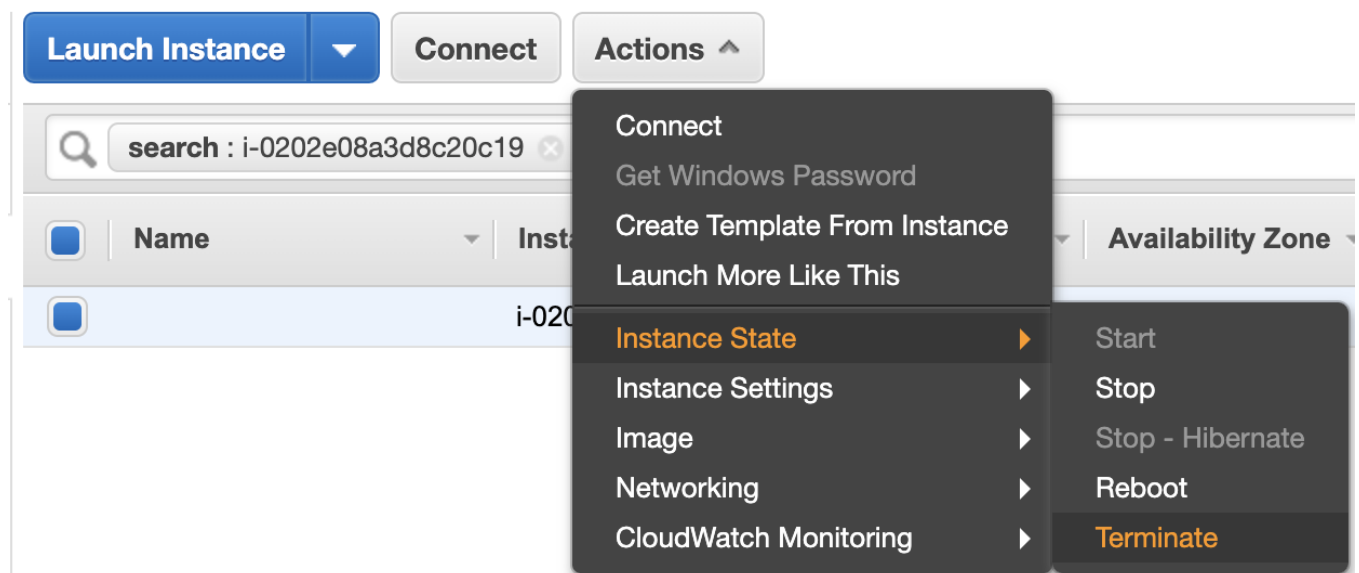
When you launch an EC2 instance, you have the option of passing **user-data** that you can use to configure or install software on your instance.

This is also known as an "Init script". For this exercise solution, we will program a shell script to be our init script.

By default, Init scripts run only on the first boot of the instance. We can configure an existing instance to run its init script on every restart, but we do not need that for this exercise.

### Part 0: Clean Up

If you haven't already, terminate all previous instances by selecting them in the EC2 Instances Dashboard. From the **Actions** dropdown menu select **Instance state**, followed by **Terminate**.



### Part :1 Launch an EC2 Instance

1. Using the EC2 Console, select Instances from the sidebar and click **Launch instance**
2. Select **t2.micro** instance type and click the **Next: Configure Instance Details** button
3. Set the **Auto-assign public IP** to **Enabled**, because we need an Internet connection to install the NGINX software
4. Scroll down to the **Advanced Details** section, where we will configure the init script to install the NGINX server

## ▼ Advanced Details

Metadata accessible		Enabled
Metadata version		V1 and V2 (token optional)
Metadata token response hop limit		1
User data		<input checked="" type="radio"/> As text <input type="radio"/> As file <input type="checkbox"/> Input is already base64 encoded
<div>(Optional)</div>		

5. Copy the following commands into the **User data** box

```
#!/bin/bash

yum update -y
amazon-linux-extras install nginx1.12 -y
service nginx start
```

6. Click **Review and Launch**, then edit the **Security Groups**

7. Either select an existing security group that allows HTTP access, or create a new such security group

8. Click **Review and Launch** and then launch the EC2 instance

9. Find the instance's **IPv4 Public IP** address from the EC2 Instance Dashboard

10. Visit the IP address in the browser and you should see the default Nginx page

Welcome to **nginx** on Amazon Linux!

This page is used to test the proper operation of the **nginx** HTTP server after it has been installed. If you can read this page, it means that the web server installed at this site is working properly.

Website Administrator

This is the default `index.html` page that is distributed with **nginx** on Amazon Linux. It is located in `/usr/share/nginx/html`.

You should now put your content in a location of your choice and edit the `root` configuration directive in the **nginx** configuration file `/etc/nginx/nginx.conf`.

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