

Hello Cloud! Zero to Serverless CFML in 20 Minutes

Hello Cloud! Zero to Serverless CFML in 20 Minutes (<http://ciacfug.org/blog/hello-cloud-zero-to-serverless-cfml-in-20-minutes>)

Posted by Andy Peterson

13 Dec 2020 02:51 PM

When it comes to CFML serverless environments, I have watched a lot of videos and read a lot of documentation but never have I come across a session that gets your cfml code working in the cloud so fast. 20 minutes into this 90 minute session by Paul Kukiel of Amazon Web Services and I'm watching my cfml run on AWS. Given this quick win, and despite having another 70 minutes of video to watch, I stopped to take stock of what happened, and how.

This post walks through several tools and services that were completely new to me. The first such service is AWS Cloud9. This is a cloud-based IDE where we will perform our installations, configurations, and coding.

So once you're signed into the AWS Cloud9 console, click on the Create environment button. From there, you have a few configuration options to choose from:

Name environment

Environment name and description

Name
The name needs to be unique per user. You can update it at any time in your environment settings.

Limit: 60 characters

Description - *Optional*
This will appear on your environment's card in your dashboard. You can update it at any time in your environment settings.

In the Environment settings shown below, I chose the "free-tier eligible" instance type to see just how little RAM and CPU I can get away with:

Environment settings

Environment type [Info](#)
Run your environment in a new EC2 instance or an existing server. With EC2 instances, you can connect directly via Shell (SSH) or connect via AWS Systems Manager (without opening inbound ports).

- Create a new EC2 instance for environment (direct access)**
Launch a new instance in this region that your environment can access directly via SSH.
- Create a new no-ingress EC2 instance for environment (access via Systems Manager)**
Launch a new instance in this region that your environment can access through Systems Manager.
- Create and run in remote server (SSH connection)**
Configure the secure connection to the remote server for your environment.

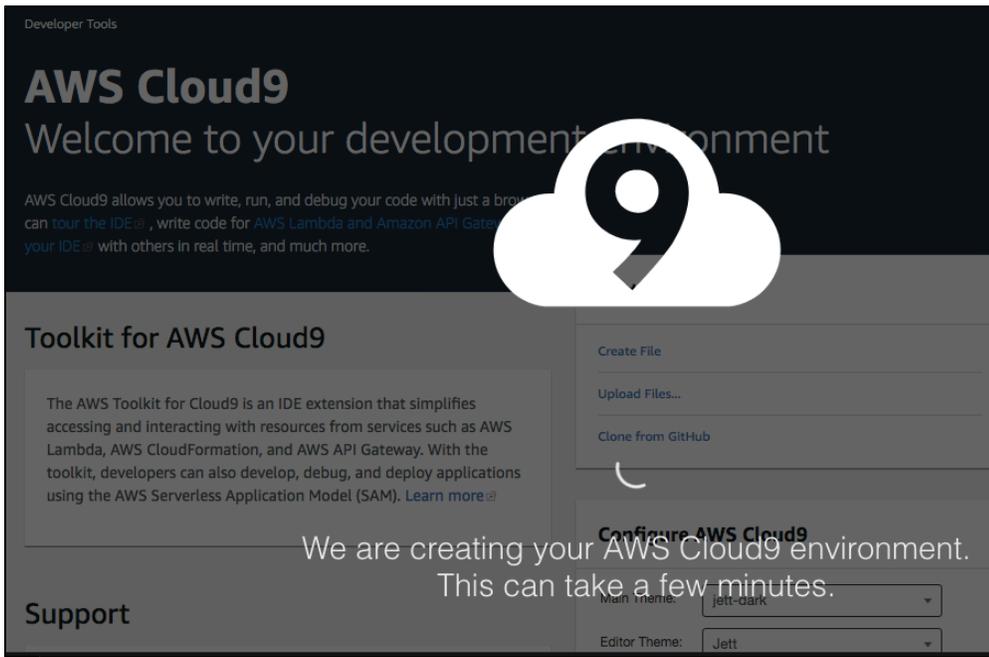
Instance type

- t2.micro (1 GiB RAM + 1 vCPU)**
Free-tier eligible. Ideal for educational users and exploration.
- t3.small (2 GiB RAM + 2 vCPU)**
Recommended for small-sized web projects.
- m5.large (8 GiB RAM + 2 vCPU)**
Recommended for production and general-purpose development.
- Other instance type**
Select an instance type.

Platform

- Amazon Linux**

After the settings have been added, Cloud9 spins up your environment:



Now that the IDE is set up, it's time to get our hands dirty. Mr. Kukiel provides this Gist (<https://gist.github.com/kukielp/d6002b41408a0dc77143d9906a18cd02>) and he, along with the folks following from home (like me), proceeds to copy and paste segments of code into the command line, executing packages one at a time. Here is a breakdown of some of what's happening here.

The Gist Breakdown

Amazon Corretto

Amazon Corretto is Amazon's version of Java. The line of code below from the Gist installs it (or inflates it - it is the cloud after all) in our environment:

```
sudo yum install -y https://corretto.aws/downloads/latest/amazon-corretto-8-x64-linux-jdk.rpm
```

Gradle

Next we install Gradle. Gradle is an open source build automation tool that we will use to package our CF application. Check the Gist for the appropriate commands.

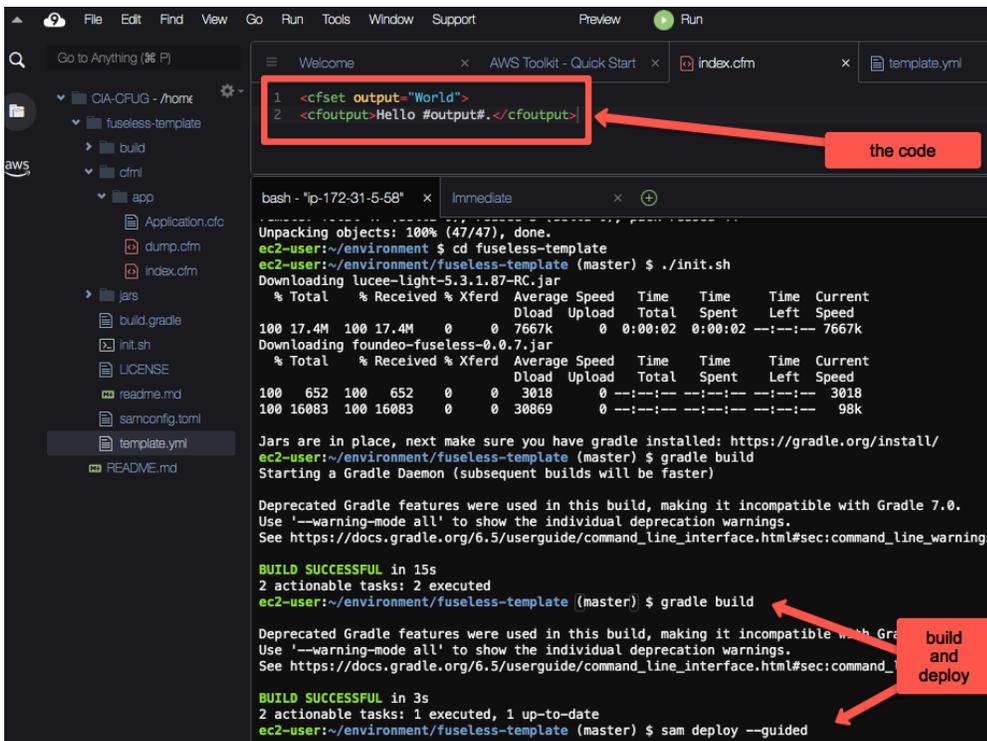
Fuseless

I don't know why I haven't heard about this before. Fuseless runs serverless CFML Lambda functions. For the purposes of this post, we will be cloning fuseless from here (<https://github.com/kukielp/fuseless-template.git>) (see Gist) for more details.

The Cloud9 IDE

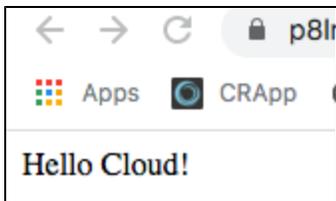
In the screenprint below you can see that two lines of code have been added to a new file I created called index.cfm. Below that is the command line where the commands from the Gist have been copied and pasted.

Once index.cfm has been saved, it is time to see your code in a web page by building and deploying (commands also found in the Gist).



Now, copy and paste the Output Value into your browser to see the code in action, including /index at the end.

```
CloudFormation outputs from deployed stack
-----
Outputs
-----
Key           CFMLApi
Description   API Gateway endpoint URL for Prod stage for CFML Select function
Value         https://p8lrir25.execute-api.us-east-1.amazonaws.com/Prod/
```



There is so much more here to dig through, but that will have to wait - I have more video to watch and can't wait to see what's next. If this piqued your fancy as it did mine then go check out Paul Kukiel's presentation (<http://mmcfug.org/index.cfm/presentations/mmcfug-goes-serverless/>) and get your CFML code in the cloud right away!

Resources in a nutshell

Corretto (<https://aws.amazon.com/corretto/>)

FuseLess Serverless CFML Lambda Functions (<https://fuseless.org/>)

Gist (<https://gist.github.com/kukielp/d6002b41408a0dc77143d9906a18cd02>)

Gradle Build Tool (<https://gradle.org/>)

Mid Michigan ColdFusion Users Group (<http://mmcfug.org/>)

Presentation (<http://www.mmcfug.org/index.cfm/presentations/mmcfug-goes-serverless/>)

Tags: AWS (<http://ciacfug.org/blog/category/aws>),
CFML (<http://ciacfug.org/blog/category/cfml>)

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