Overview

This lab introduces you to AWS OpsWorks. In this lab, you will create a PHP web application server stack and deploy an PHP application to it.

Topics Covered

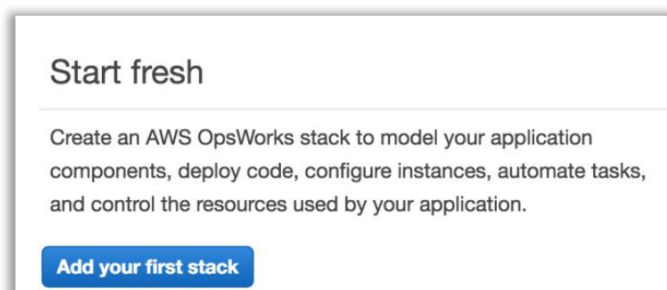By end of this lab, you will be able to:

→ Create a new AWS OpsWorks stack.
→ Deploy an app on this stack.

Add Your First Stack

A stack orchestrates all EC2 instances and other AWS resources you need to run your apps. You usually have a stack per production/app and stage.

1. In the AWS Management Console, click OpsWorks under Management Tools.

2. Click Add your first stack.

Start fresh

Create an AWS OpsWorks stack to model your application components, deploy code, configure instances, automate tasks, and control the resources used by your application.

Add your first stack

3. Click the Chef 11 stack box.

4. In the Stack name box, type a name, such as MyStack.

→ The other settings deal with the location your EC2 instances, which operating system is used, instance specifics, security settings, and the configuration management. All these settings can be left at their defaults.

5. To create the stack, click Add Stack.

6. When the process is completed, you will be directed to the Stack dashboard, with you new stack displayed.

7. Click Add a layer to add your first layer.

8. In the Layer type drop-down box, select PHP App Server.

9. Click Add Layer.

After you finish adding the layer, OpsWorks displays the Layers page

10. In the PHP App Server row, click Add Instance.

11. For this lab, just accept the default settings and click Add Instance to add the instance to the layer.

12. Find php-1 under PHP App Server and click start in the row's Actions column to start the instance.

→ It typically takes several minutes to boot the EC2 instance and install the packages. Once you get the status as online, this means that your instance is ready for use.

Hostname	Status	Size	Type	AZ	Public IP	Actions
php-app1	online	c3.large	24/7	us-west-2a	54.218.88.250	■ stop ssh

Deploying an app to you OpsWorks stack

In this lab, you will manually deploy an example app from a public Git repository to an application server.

13. In the left navigation menu, click Apps.

14. On the Apps page, click Add an app.

15. On the Add App page, specify the following values:

→ The app's Name, which OpsWorks uses for display purposes. Type SimplePHPApp.

→ The app's Type, which determines where to deploy the app. Leave it to PHP, which deploys the app to PHP App Server instances.

→ Data Source Type, an associated database server, if any. Select None.

→ The app's Repository Type. The example app is stored in a Git repository.

· The app's Repository URL. Enter the example app's repository URL as shown here: https://github.com/awslabs/opsworks-demo-php-simple-app

→ The app's Branch/Revision. Enter version 1 for this revision of the app.

→ Keep the default values for the remaining settings and click App.

16. To install the code on the server, you must *deploy* the app. To do so, click deploy in the SimplePHPApp Actions column.

17. On the Deploy App page, Command should already be set to Deploy. Keep the defaults for the other settings and click Deploy.
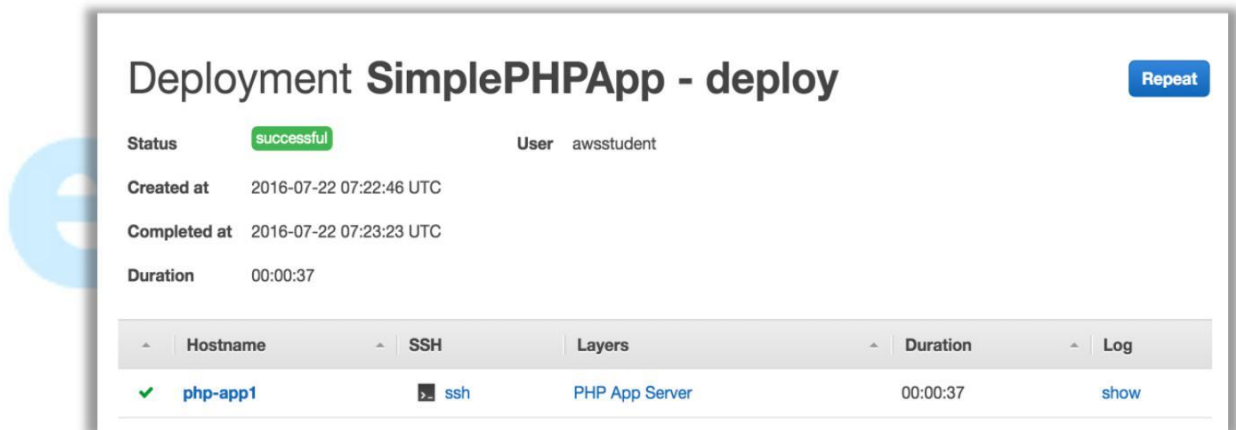
→ When the deployment is complete, the Deployment page displays a Status
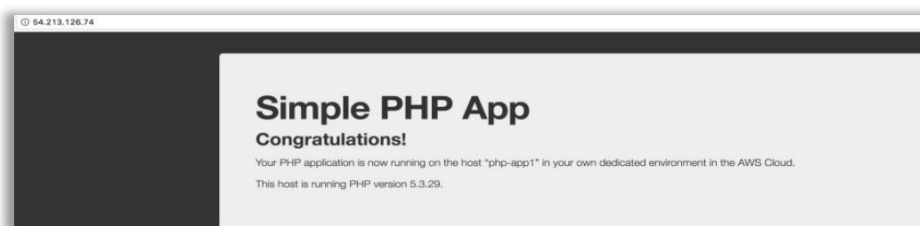of successful, and php-app1 will have a green check mark next to it.

18. SimplePHPApp is now installed and ready to go. To run it, click Instances in
the left Navigation menu.

19. Then click the php-app1 instance's Public IP address.

→ The web page will display a simple message of congratulations.

Conclusion

Congratulations! You have now successfully:

> $\rightarrow$ Created a new AWS OpsWorks stack.
>
> $\rightarrow$ Deployed an app to an AWS OpsWorks stack file.