

Module 5: Configuration Management Using OpsWorks

Demo Document 1

edureka!

edureka!

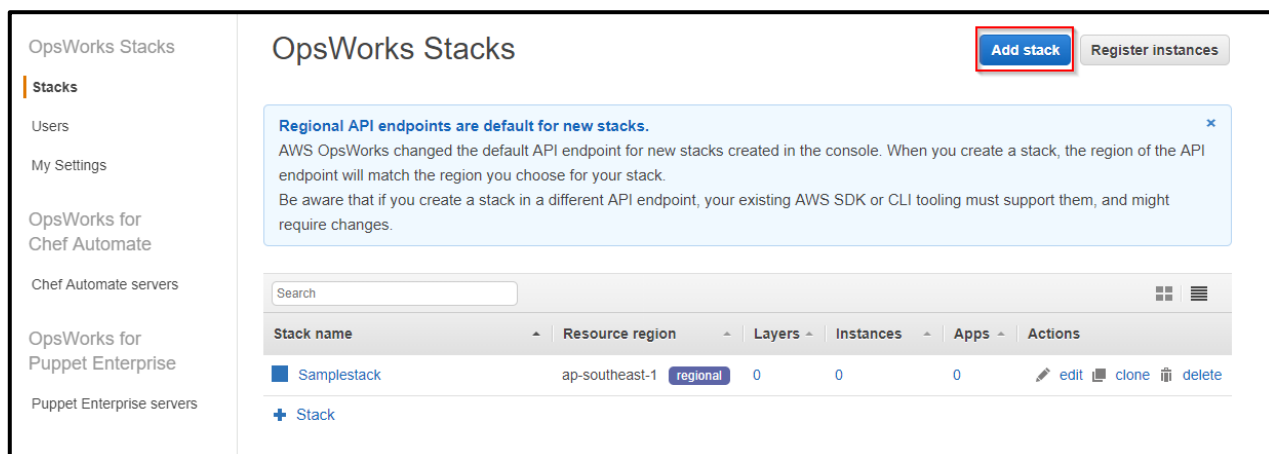
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Create And Deploy An Application In A Stack

Demo steps:

Step 1: Create a stack

- In your AWS Management Console, search for OpsWorks and select it
- Click on **stack**
- Then, click on **Add stack** in the OpsWorks stack page



- Click the Chef 11 stack box
- Give a name for your stack
- Choose a region for your stack
- In default SSH key, select a key
- Under use custom Chef cookbooks, choose yes
- In repository type, choose Git
- Give the Git URL to be <https://github.com/aws-samples/opsworks-demo-php-simple-app>

- Click on **Add stack**

Stack name

edureka

Region

US West (Oregon)

VPC

No VPC

Default Availability Zone

us-west-2a

Default operating system

Amazon Linux 2018.03

Need a different OS? [Let us know.](#)

Default SSH key

ishu-oreg

Chef version

11.10

Use custom Chef cookbooks

Yes

Define the source of your Chef cookbooks

Repository type

Git

Repository URL

<https://github.com/aws-samples/opswork>

Repository SSH key

Optional

Branch/Revision

Optional

Manage Berkshelf

No

Stack color

Note: This stack will use the regional API endpoint by default. You can change it in the Advanced section. [Learn more.](#)

[Advanced »](#)


Cancel

Add stack

Step 2: Add a layer

- Click on **Add a layer**


Layers



A layer is a blueprint for a set of instances. It specifies the instance's resources, installed packages, profiles and security groups.

Add a layer

Instances






An instance represents a server. It can belong to one or more layers, that determine the instance's resources and configuration.

[Add an instance](#) or [register a server](#)

- Choose the layer to be PHP app layer and click on **add layer**

Add layer

 OpsWorks  ECS  RDS

Layer type

PHP App Server ▼

The PHP Application Server layer is a blueprint for instances that function as PHP application servers. The supported versions depend on the operating system. [Learn more](#).

Elastic Load Balancer

No ELBs have been created in your vpc-3f0ba057 in us-west-1. To add an ELB go to the [EC2 console](#).

Need further support? [Let us know](#).

Cancel **Add layer**

Step 3: Add an Instance to your layer

- In your OpsWork dashboard, click on Instance
- Click on **Add an Instance**

- Stack
- Layers
- Instances**
- Time-based
- Load-based
- Apps
- Deployments
- Monitoring

Instances

An instance represents a server. It can belong to one or more layers, that define the instance's settings, resources, installed packages, profiles and security groups. When you start the instance, OpsWorks uses the associated layer's blueprint to create and configure a corresponding EC2 instance. [Learn more](#).

PHP App Server

No instances. **Add an instance.**

- Click on **add instance**

New Existing OpsWorks EC2 instances and own servers

Hostname

php-app1

Size

c3.large ▼


Availability Zone

us-west-2a ▼

[Advanced »](#)

Cancel **Add Instance**

- To start the instance, click on **start**

| PHP App Server | | | | | | |
|--|---------|----------|------|------------|-----------|--|
| Search for instances in this layer by name, status, size, type, AZ or IP | | | | | | |
| Hostname | Status | Size | Type | AZ | Public IP | Actions |
| php-app1 | stopped | c3.large | 24/7 | us-west-2a | - | ▶ start  delete |
| + Instance | | | | | | |

Step 4: Add an app

- In your OpsWork dashboard, click on **Add an app**
- Give a name for the app
- In repository URL, give the URL <https://github.com/aws-samples/opsworks-demo-php-simple-app>
- Click on **add**

Settings

Name
edureka

Type
PHP

Document root
Optional

Data Sources

Data source type
☐ RDS
☐ OpsWorks
☒ None

Application Source

Repository type
Git




Repository URL
https://github.com/aws-samples/opsworl

Repository SSH key
Optional

Branch/Revision
Optional

Step 5: Deploy the app

- Click on **deploy**

| Name | Type | Data Source | Last Deployment | Actions |
|-----------------------|------|-------------|-----------------|---|
| edureka | PHP | | |  deploy  edit  delete |
| + App | | | | |

- Again, click on **deploy**

Settings

App

edureka

Command

Deploy

Comment

Optional

Advanced »

Instances

OpsWorks will run this command on **1 of 1** instances. The assigned recipes are run on all selected instances.

Advanced »

Cancel

Deploy

- Check for the status to verify the deployment of the application

| Deployment edureka - deploy | | | | | | Repeat |
|------------------------------------|-------------------------|-----|----------------|----------|------|--------|
| Status | successful | | User | content | | |
| Created at | 2018-11-01 13:18:28 UTC | | | | | |
| Completed at | 2018-11-01 13:19:16 UTC | | | | | |
| Duration | 00:00:48 | | | | | |
| | Hostname | SSH | Layers | Duration | Log | |
| ✓ | php-app1 | ssh | PHP App Server | 00:00:48 | show | |

Step 6: Test your app

- In your OpsWorks dashboard, select the instance
- Click on the Public IP of the instance

| PHP App Server | | | | | | | |
|--|--------|----------|------|------------|---------------|---------|-----|
| Search for instances in this layer by name, status, size, type, AZ or IP | | | | | | | |
| Hostname | Status | Size | Type | AZ | Public IP | Actions | |
| php-app1 | online | c3.large | 24/7 | us-west-2a | 34.220.32.203 | stop | ssh |
| + Instance | | | | | | | |

- You will be able to see your simple PHP application

