SYSTEMS OPERATION AND DEVOPS ENGINEERING FAST TRACK

Course Code: 100167

Learn how to launch scalable, automated, and repeatable deployments of AWS systems to create a more efficient network using DevOps methodologies.

This bundle combines the System Operations on AWS and DevOps Engineering on AWS courses and is delivered in an accelerated timeframe, saving you time and money. In this course, you will learn how to configure, deploy, and manage operations on the AWS platform using system administration, cloud computing, and networking skills. Our expert instructors will provide industry techniques and best practices used by AWS system administrators, so you can efficiently utilize AWS tools and capabilities through the network management process. You will also learn how to use the most common DevOps patterns to develop, deploy, and maintain applications on AWS using the core principles of the DevOps methodology. You’ll gain important knowledge and be able to practice your skills through use cases, live labs, and hands-on exercises. At the end of this course, you will be able to develop, launch, and manage scalable, automated, and repeatable deployments of AWS systems to create a more efficient network.

What You’ll Learn

• Use standard AWS infrastructure features such as Amazon Virtual Private Cloud (VPC), Amazon Elastic Compute Cloud (EC2), Elastic Load Balancing, and Auto Scaling from the command line
• Use AWS CloudFormation and other automation technologies to produce stacks of AWS resources that can be deployed in an automated, repeatable fashion
• Build functioning virtual private networks with Amazon VPC from the ground up using the AWS Management Console
• Deploy Amazon EC2 instances using command line calls and troubleshoot the most common problems with instances
• Monitor the health of Amazon EC2 instances and other AWS services
• Manage user identity, AWS permissions, and security in the cloud
• Manage resource consumption in an AWS account using tools such as Amazon CloudWatch, tagging, and Trusted Advisor
• Select and implement the best strategy for creating reusable Amazon EC2
Configure a set of Amazon EC2 instances that launch behind a load balancer, with the system scaling up and down in response to demand
Edit and troubleshoot a basic AWS CloudFormation stack definition
Use the principal concepts and practices behind the DevOps methodology
Design and implement an infrastructure on AWS that supports one or more DevOps development projects
Use AWS CloudFormation and AWS OpsWorks to deploy the infrastructure necessary to create development, test, and production environments for a software development project
Use AWS CodeCommit and understand the array of options for enabling a Continuous Integration environment on AWS
Use AWS CodePipeline to design and implement a Continuous Integration and Delivery pipeline on AWS
Implement several common Continuous Deployment use cases using AWS technologies, including blue/green deployment and A/B testing
Distinguish between the array of application deployment technologies available on AWS (including AWS CodeDeploy, AWS Opsworks, AWS Elastic Beanstalk, Amazon EC2 Container Service, and Amazon EC2 Container Registry), and decide which technology best fits a given scenario
Fine-tune the applications you deliver on AWS for high performance and use AWS tools and technologies to monitor your application and environment for potential issues

Who Needs to Attend

Systems administrators, operations managers, and individuals responsible for supporting operations on the AWS platform

Prerequisites

• Working knowledge of one or more high-level programming languages (C#, Java, PHP, Ruby, Python, etc.)
• Working knowledge of systems administration or software development
• Familiarity with cloud computing concepts
• Some experience with maintaining operating systems at the command line (shell scripting in Linux environments, cmd or PowerShell in Windows)
• Basic knowledge of networking protocols (TCP/IP, HTTP)
• Intermediate knowledge of administering Linux or Windows systems at the command-line level
• Working experience with AWS using both the AWS Management Console and the AWS Command Line Interface (AWS CLI)
SYSTEMS OPERATION AND DEVOPS ENGINEERING FAST TRACK

Course Code: 100167

| CLASSROOM LIVE | $3,995 USD | 5 days |

Classroom Live Outline

This is an emerging technology course. Course outline is subject to change as needed.

1. System Operations on AWS Overview
2. Networking in the Cloud
3. Computing in the Cloud
4. Storage and Archiving in the Cloud
5. Monitoring in the Cloud
6. Managing Resource Consumption in the Cloud
7. Configuration Management in the Cloud
8. Creating Scalable Deployments in the Cloud
9. Creating Automated and Repeatable Deployments
10. What is DevOps?
11. Infrastructure as Code, Part 1: Design and Security
12. Infrastructure as Code, Part 2: CloudFormation and Configuration Management
13. Continuous Integration in the Cloud
14. Continuous Delivery on AWS
15. Deploying Applications on AWS, Part 1
16. Deploying Applications on AWS, Part
17. Putting It All Together
18. Performance-Tuning Your Deployments
19. Administering and Automating Your Infrastructure

Jul 8 - 12, 2019 | 8:00 AM - 6:00 PM | SAN JOSE, CA

Jul 29 - Aug 2, 2019 | 8:00 AM - 6:00 PM | WASHINGTON, DC
<table>
<thead>
<tr>
<th>Date Range</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 5 - 9, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>BOSTON, MA</td>
</tr>
<tr>
<td>Sep 9 - 13, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>MORRISTOWN, NJ</td>
</tr>
<tr>
<td>Sep 30 - Oct 4, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>LOS ANGELES, CA</td>
</tr>
<tr>
<td>Oct 7 - 11, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>RESEARCH TRIANGLE PARK, NC</td>
</tr>
<tr>
<td>Nov 11 - 15, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>WASHINGTON, DC</td>
</tr>
<tr>
<td>Nov 18 - 22, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>DALLAS, TX</td>
</tr>
</tbody>
</table>
SYSTEMS OPERATION AND DEVOPS ENGINEERING FAST TRACK

Course Code: 100167

VIRTUAL CLASSROOM LIVE $3,995 USD 5 days

Virtual Classroom Live Outline

This is an emerging technology course. Course outline is subject to change as needed.

1. System Operations on AWS Overview
2. Networking in the Cloud
3. Computing in the Cloud
4. Storage and Archiving in the Cloud
5.Monitoring in the Cloud
6. Managing Resource Consumption in the Cloud
7. Configuration Management in the Cloud
8. Creating Scalable Deployments in the Cloud
9. Creating Automated and Repeatable Deployments
10. What is DevOps?
11. Infrastructure as Code, Part 1: Design and Security
12. Infrastructure as Code, Part 2: CloudFormation and Configuration Management
13. Continuous Integration in the Cloud
14. Continuous Delivery on AWS
15. Deploying Applications on AWS, Part 1
16. Deploying Applications on AWS, Part
17. Putting It All Together
18. Performance-Tuning Your Deployments
19. Administering and Automating Your Infrastructure

Jul 8 - 12, 2019 | 11:00 AM - 9:00 PM EST
Jul 29 - Aug 2, 2019 | 8:00 AM - 6:00 PM EST
<table>
<thead>
<tr>
<th>Date Range</th>
<th>Time</th>
<th>Time Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 5 - 9, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>EST</td>
</tr>
<tr>
<td>Sep 9 - 13, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>EST</td>
</tr>
<tr>
<td>Sep 30 - Oct 4, 2019</td>
<td>11:00 AM - 9:00 PM</td>
<td>EST</td>
</tr>
<tr>
<td>Oct 7 - 11, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>EST</td>
</tr>
<tr>
<td>Nov 11 - 15, 2019</td>
<td>8:00 AM - 6:00 PM</td>
<td>EST</td>
</tr>
<tr>
<td>Nov 18 - 22, 2019</td>
<td>9:00 AM - 7:00 PM</td>
<td>EST</td>
</tr>
</tbody>
</table>

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

Date created: 5/30/2019 4:38:11 PM
Copyright © 2019 Global Knowledge Training LLC. All Rights Reserved.