OpenStack Orchestration

By Adnan Ahmed Siddiqui

Exploit the power of dynamic cloud formation and auto-scaling features to fully implement OpenStack orchestration

About This Book

- Set up, manage, and troubleshoot Heat and effectively automate your datacenter and cloud-based services
- Achieve high availability, minimize down-time, and automate the deployment of cloud-based services and resources with minimum effort
- Upgrade your skills and manipulate resources on virtual machines in an unattended fashion using Heat

Who This Book Is For

If you are a System Engineer, System Administrator, Cloud Administrator, or a Cloud Engineer, then this book is for you. You should have a background of working in a Linux-based setup. Any knowledge of OpenStack-based cloud infrastructure will help you create wonders using this book.

What You Will Learn

- Install an orchestration service for a private cloud environment
- Tackle errors that show up during the installation and configuration of heat
- Configure a template for orchestration using the native HOT format
- Configure a template for orchestration using the AWS cloud formation format
- Deploy a stack using the HOT template
- Deploy a test stack using the AWS CloudFormation template
- Automate and orchestrate cloud-based services with OpenStack Heat

In Detail

This book is focused on setting up and using one of the most important services in OpenStack orchestration, Heat. First, the book introduces you to the orchestration service for OpenStack to help you understand the uses of the templating mechanism, complex control groups of cloud resources, and huge-potential and multiple-use cases. We then move on to the topology and orchestration specification for cloud applications and standards, before introducing the most popular IaaS cloud framework, Heat. You will get to grips with the standards used in Heat, overview and roadmap, architecture and CLI, heat API, heat engine, CloudWatch API, scaling principles, JeOS and installation and configuration of Heat. We wrap up by giving you some insights into troubleshooting for OpenStack.

With easy-to-follow, step-by-step instructions and supporting images, you will be able to manage OpenStack operations by implementing the orchestration services of Heat.

Style and approach

The book is a step-by-step guide to implementing an orchestration (cloud formation) service for OpenStack-based cloud environments. This book uses real-world scenarios and examples to demonstrate the procedures in an easy-to-understand language with plenty of screenshots to help you get a better understanding.

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OpenStack Orchestration Summary Details

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About the Author

Adnan Ahmed Siddiqui

Adnan Ahmed Siddiqui is an innovative and results-driven leader with over 8 years of success. He is focused on achieving exceptional results in highly competitive environments that demand continuous improvements. He has a proven ability to architect, design, develop, and deliver cost-effective, high-performance technology solutions to meet challenging business demands. Adnan is competent in Information Lifecycle Management (ILM) and Service Delivery Lifecycle (SDLC) covering business case development, team and project management, delivery, implementation, and support. He provides consultancy and advising to various organizations in the USA and Middle East regions in OpenStack, AWS, Citrix, and Microsoft solutions. Adnan is a founder and CEO of CloudDall INC (www.clouddall.com), a successful company that helps organizations worldwide rapidly migrate their IT infrastructure to the cloud. Their business provisioning includes Public Cloud, Hybrid Cloud, DaaS (Desktop as a Service), backup and archive, disaster recovery, and customized storage services. CloudDall provides subscription-based services tailored to fit a range of business models resulting in reduced cost, enhanced security, control, and productivity. In addition to these achievements, Adnan holds Computer Engineer degree and these certifications: Red Hat Certified Engineer (RHCSA), AWS Certified Solution Architect, Citrix Certified Enterprise Engineer for Virtualization (CCEE), Microsoft Certified Technology Specialist (MCTS), Microsoft Certified Information Technology Professional (MCITP), and Microsoft Certified System Engineer (MCSE). He has also been a Microsoft Certified Trainer (MCT) for 6 years.

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