Building a customer reference with AWS Quick Start

A review of the AWS Quick Start for Red Hat OpenShift Container Platform

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Launches, configures and runs key workloads on the AWS Cloud
What is an AWS Quickstart?

- Introduction
- Reference
- Guidelines for Support
Crafting a customers first experience

- The order of operations
- What should you simplify
- This is an automated deployment
Order of operations

The Parameters

The Deployment Guide

The Deployment Experience
Parameters

```json
{
  "ParameterKey": "AvailabilityZones",
  "ParameterValue": "$[taskcat_genos_3]"
}
{
  "ParameterKey": "KeyPairName",
  "ParameterValue": "davdunc@amazon.com"
}
{
  "ParameterKey": "NumberOfNodes",
  "ParameterValue": "3"
}
{
  "ParameterKey": "OpenShiftAdminPassword",
  "ParameterValue": "R0dhatPass"
}
{
  "ParameterKey": "S3BucketName",
  "ParameterValue": "quickstart-davdunc-redhat"
}
{
  "ParameterKey": "S3KeyPrefix",
  "ParameterValue": "quickstart-redhat-openshift/"
}
{
  "ParameterKey": "RedhatSubscriptionPassword",
  "ParameterValue": "ocplovesMG"
}
{
  "ParameterKey": "RedhatSubscriptionUserName",
  "ParameterValue": "davdunc-ccg"
}
```
The deployment guide

- Explicit instructions for deployment
- Process for parts which cannot be automated
- Explain decisions users can make for themselves
- Provide more details regarding features of the solution
- Detail example use cases
Architectural Diagram

The Deployment Guide always includes an architectural diagram.
- Collaborative work
- Consistency in Architectural vision.
- Why is there only one?
There are specific requirements

- A Quick Start deploys without intervention.
- A Quick Start must eliminate the needs for deep cleaning.
- A Quick Start does not create resources out of band.
Separating the provisioning from the app

AWS Cloudformation -> openshift-ansible playbooks
Building on best practices

Quick Starts are modular.

- git submodules are integral
- ci process for updates

Scripts are collected into the Quick Start deployments.
Nested stacks
Building means testing.

Auto-generated stack inputs

Example: `$[taskcat_genaz_3]`

Generates:

us-east-1a, us-east-1b, us-east-1c (if the region is us-east-1)

https://github.com/aws-quickstart/taskcat
Engage us and the AWS Quick Start team

Building in common is the optimal process.

quickstart@amazon.com
aws-os-partners@amazon.com

If you have something you would like to begin working on with us, let’s get started today.

Quick Start Contributor’s Guide
Thank you for your interest in Amazon Web Services (AWS) Quick Start reference deployments.

There are several ways you can participate in Quick Start development.

<table>
<thead>
<tr>
<th>Option 1</th>
<th>Option 2</th>
<th>Option 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make the Quick Start your own</td>
<td>Contribute code</td>
<td>Build a new Quick Start</td>
</tr>
<tr>
<td>Use one of our Quick Starts as a starting point, and revise or extend it for your own usage scenario.</td>
<td>Add new features or bug fixes for a Quick Start in GitHub, and share your code with the community.</td>
<td>Have a good idea for a Quick Start? Follow our guidelines, and work with us to get it published on the AWS website.</td>
</tr>
</tbody>
</table>

Providing feedback
Quick Starts are maintained in separate GitHub repos in the Quick Start organization. If you’d like to report an issue, ask a question, or make a suggestion about a specific Quick Start, please post your feedback in the Issues section of the relevant Quick Start repo.

For general questions about Quick Starts, send email to quickstart@amazon.com.
Let’s get you started

You don’t have to start from Scratch

https://github.com/aws-quickstart/quickstart-examples

Make an existing Quick Start your own!

https://github.com/aws-quickstart/quickstart-redhat-openshift/network/members
Questions

And thank you for coming