

OpenShift Migration AcceleratorSM

Transition To Containers And Orchestration. Repeatable. Fast.



ENGAGEMENT OVERVIEW

The purpose of this engagement is to implement a greenfield OpenShift Container Platform. SDG consultants conduct a thorough analysis of the customer's current infrastructure, application workloads, and the desired future state of application offerings. From there, the consultant creates and executes an implementation plan that establishes a new OpenShift cluster, provides a migration path for existing applications, and delivers a runbook for the creation of greenfield applications.

KEY BENEFITS

Reduce Complexity

Implement one architecture and interface for deployment of application workloads.

Modernize Applications

Obtain a clear and repeatable process to migrate legacy application workloads.

Share Accountability

Establish accountable, auditable, and compliant process to develop new application workloads.

Increase Alignment

Enable cross-functional teams to collaborate closely and effectively on application development.

The following describes the specific phases of our OpenShift Migration AcceleratorSM. Each phase builds on the previous phase, increasing the capability of the overall solution.



Phase 1 > Analysis

The goal of the analysis phase is to evaluate the existing customer automation framework for the purpose of creating a migration plan to OpenShift.



TASKS

- Review of current application workloads
 - Existing hardware, network, and storage
 - Application types and workloads
 - Public or private cloud integrations
 - Current CI/CD architecture
 - Current ITIL, DevOps and Agile processes
 - Security, Compliance and regulatory requirements
 - IT team structure

OUTPUTS

- OpenShift Migration Plan

WHAT FEATURES ARE INCLUDED?

Profile, categorize, and rank existing application workloads for migration feasibility

Install OpenShift Container Platform to meet application workload requirements

Configure IAM, RBAC, and SSO requirements in accordance with customer requirements

Implement test "Hello World" application in new cluster

Create runbook for migration of and development of new applications

Phase 2 > Implementation

The goal of the implementation phase is to perform all of the tasks described in the migration plan.

TASKS

- ❑ Deploy an OpenShift Cluster in one environment
- ❑ Configure HA Proxy, Registries, highly available storage
- ❑ Integrate OpenShift with LDAP or Active Directory
- ❑ Configure initial projects and pods for a sample application
- ❑ Configure Security Context Constraints, Roles and Bindings according to security policies



OUTPUTS

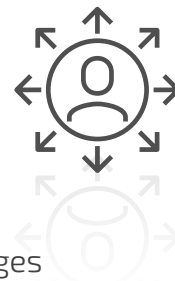
- ❑ One running instance of OpenShift Container Platform
- ❑ Configuration of OpenShift to accept initial application workloads

Phase 3 > Training

The goal of the Training Phase is to enable the customer to migrate existing applications and develop future applications in OpenShift.

TASKS

- ❑ Review OpenShift project configuration settings
- ❑ Review application migration best practices
- ❑ Review creating new images and using Red Hat certified images
- ❑ Migrate 1 – 3 existing automation scripts to Ansible Playbooks
- ❑ Review OpenShift RESTful API interface



OUTPUTS

- ❑ OpenShift application migration cookbook
- ❑ Engagement journal of activities

OUTCOMES

- ✓ Eliminate redundant operational and capital expenditures on infrastructure
- ✓ Modernize application workloads with no business impact
- ✓ Reduce the application related outages due to hardware failure
- ✓ Dramatically increase the velocity of rolling out new applications



QUESTIONS?

Give us a call at [1-800-906-0102](tel:1-800-906-0102) or email us at sales@stonedoorgroup.com.