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(Ansible Integration)

Project Kick-off Doc – ASPEN-2

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This document contains unpublished confidential and proprietary information for Ansible Integration for Aliyun Cloud

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# Introduction

**1**

## Project Overview

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Name** | Ansible Integration | **Project Codename** | ASPEN-2 |
| **Phase** | Phase 2 | **Project Manager** | Sandeep Thakre |

The primary goal for this project is to integrate Ansible Modules for Aliyun Cloud services. The Phase 2 (ASPEN-2) will focus on enabling ansible modules for Elastic Computing Service (ECS) Security group interfaces, Server Load Balancer (SLB), Virtual Private Cloud (VPC), Object Storage Service (OSS) and Relational Database Service (RDS) interfaces. The Phase 2 release will improve efficiencies by introducing infrastructure automation modules for different services of Alibaba Cloud and management of instances.

This document presents an information model which will bring access and clarity to:

* Minimum, standardized set of required tasks and requirements
* Accountabilities and responsibilities.
* Project Milestones and important dates in life cycle

## Scope

The scope of Phase 2 includes to develop and test modules to automate the instance related task through ansible playbooks. The table below defines the list of task that are covered in this project.

|  |  |
| --- | --- |
| # | Interfaces |
| **Elastic Compute Service** | |
| **Security Group Related Interfaces** | |
| 1 | Creating a Security Group |
| 2 | Querying the Security Group List |
| 3 | Deleting a Security Group |
| **Server Load Balancer** | |
| **Load Balancer** | |
| 4 | Create Load Balancer |
| 5 | Modify Load balancer Internet Spec |
| 6 | Delete Load Balancer |
| 7 | Set Load Balancer Status (Enable/Disable) |
| 8 | Set Load Balancer Name (Alias) |
| **Backend Server** | |
| 9 | Add backend Server |
| 10 | Remove backend Server |
| 11 | Set Backend server |
| 12 | Describe Health status of backend server  **2** |
| **VServer Group** | |
| 13 | Create VServer Group |
| 14 | Set VServer Group Attribute |
| 15 | Add VServer Group Backend Servers |
| 16 | Remove VServer Group Backend Servers |
| 17 | Modify VServer Group Backend Servers |
| 18 | Delete VServer Group |
| Virtual Private Cloud | |
| **VPC** | |
| 19 | Creating a VPC |
| 20 | Deleting a VPC |
| **VSwitch** | |
| 21 | Creating a VSwitch |
| 22 | Deleting a VSwitch |
| 23 | Querying the VSwitch list |
| **VRouter** | |
| 24 | Querying the VRouter list |
| **Route Entry** | |
| 25 | Creating a custom route |
| 26 | Deleting a custom route |
| **Network related interfaces** | |
| 27 | Requesting EIPs |
| 28 | Binding EIPs |
| 29 | Modifying EIP attributes |
| 30 | Unbinding EIPs |
| 31 | Releasing EIPs |
| **Object Storage Service** | |
| **Bucket Operations** | |
| 32 | Create Buckets |
| 33 | Delete Bucket |
| **Object Operations** | |
| 34 | Simple Upload |
| 35 | Create Folders |
| 36 | List Bucket Objects |
| 37 | Deleting Objects |
| **Relational Database Service** | |
| **RDS instance management** | |
| 38 | Creating an RDS instance |
| 39 | Releasing an RDS instance |
| 40 | Restarting an RDS instance |
| 41 | Changing the RDS instance type |
| 42 | Modifying the IP address white list of an RDS instance |
| 43 | Switching between the primary and standby databases of an RDS instance |
| 44 | Creating an RDS read-only instance |
| **Database management** | |
| 45 | Creating a database |
| 46 | Deleting a database |
| **Account management** | |
| 47 | Creating an account |
| 48 | Deleting an account |
| 49 | Granting account permissions |
| 50 | Revoking account permissions |
| 51 | Resetting the instance password |
| 52 | Resetting an account |

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# Roles & Responsibilities

## Team Members

|  |  |  |
| --- | --- | --- |
| Role | Identity | Responsibilities |
| Project Reporting manager (Aliyun) | Need to be provided by Alibaba Team   * Name: Shuwei * Profile/Designation: Lead Engineer * Email: shuwei.yin@alibaba-inc.com * Communication number: WhatsApp Account Number +86 18611138006 | Review project progress |
| Project Technical Analyst (Aliyun) | Need to be provided by Alibaba Team   * Name: Xiaozhu * Profile/Designation: Senior Developer * Email: guimin.hgm@alibaba-inc.com   Communication number: WhatsApp Account Number +86 18810497342 | Technical guideline, query resolve, validating drop release |
| UAT Team (Aliyun) | Need to be provided by Alibaba Team   * Name(s): Hope * Profile/Designations: Senior Developer * Emails: demon.wy@alibaba-inc.com * Communication number: WhatsApp Account Number +86 15210550115 | Execute UAT |
| Project Manager | Sandeep Thakre | Planning, Project delivery, allocating and utilising resources, retrospective reports |
| Sr. System Engineer | Nandkumar | Management and support of the IT system environments, troubleshooting environments and module testing |
| Sr. Lead Engineer | Harshal Wadaskar | Module implementation and documentation |
| Sr. Lead Engineer | Prasanna Jugade | Module implementation and documentation |
| Developer | Gaurav Dhuwe | Module implementation |
| Sr. Test Engineer | Sneha Chaudhary | Module test, system generation and verification plan, test results report |
| Test Engineer | Sachin Jagtap | Module test |

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## RACI Chart

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**Responsible (R)**

The person who is assigned to do the work

**Accountable (A)**

The person who makes the final decision and has the ultimate ownership

**Consulted (C)**

The person who must be consulted before a decision or action is taken

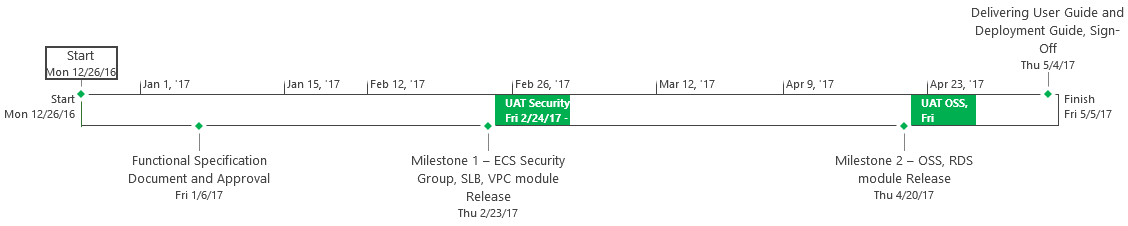
**Informed (I)**

The person who must be informed that a decision or action has been taken

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project Deliverable and Activities | Project Sponsor | Reporting manager | Technical Analyst | UAT Team | Project Manager | System Engineer | Lead Engineer | Developer | Test Engineer |
| Aliyun Team | | | | Click2Cloud Team | | | | |
| **Plan Phase Activities** |  |  |  |  |  |  |  |  |  |
| Create project Schedule |  |  |  |  | **A** |  | **R** |  |  |
| Project Plan Approve | **I** | **I** | **I** |  | **A/R** | **I** | **I** | **I** | **I** |
| **Requirement Specification Phase Activities** |  |  |  |  |  |  |  |  |  |
| Create Technical Functional Requirement Document |  |  | **C** |  | **A** | **I** | **R** | **I** | **I** |
| Technical Functional Requirement Approve and Sign-Off | **R** | **I** | **C** |  | **A** | **I** | **I** | **I** | **I** |
| **Infra Readiness Phase Activities** |  |  |  |  |  |  |  |  |  |
| Create local development and test environment |  |  |  |  | **I** | **A/R** | **I** | **I** | **I** |
| Account creation on Aliyun Cloud | **I** | **I** | **R** |  | **I** | **A** | **I** | **I** | **I** |
| **Execute Phase Activities** |  |  |  |  |  |  |  |  |  |
| Development | **I** | **I** | **C/I** |  | **A** | **I** | **R** | **R** | **I** |
| Quality Assurance | **I** | **I** | **C/I** |  | **A** | **R** | **I** | **I** | **R** |
| Build Deliverables | **I** | **I** | **I** |  | **A** | **I** | **R** | **I** | **I** |
| Create Status Report | **I** | **I** | **I** |  | **A/R** | **I** | **I** | **I** | **I** |
| Build review and acknowledge | **I** | **I** | **A/R** |  | **I** | **I** | **I** | **I** | **I** |
| **UAT Phase Activities** |  |  |  |  |  |  |  |  |  |
| Conduction UAT | **I** | **I** | **I** | **R** | **A** | **I** | **C** | **I** | **I** |
| Perform UAT Fixing | **I** | **I** | **I/C** | **I/C** | **A** | **R** | **R** | **R** | **R** |
| **Close Phase Activities** |  |  |  |  |  |  |  |  |  |
| User Guide and Deployment Documentation | **I** | **I** | **C** |  | **I** | **I** | **A/R** | **I** | **I** |
| Sign-off Project Closure | **R** | **I** | **I** | **I** | **A** | **I** | **I** | **I** | **I** |

# Project Timeline/ Milestones

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Below chart provides information on project milestones and key project dates

|  |  |  |
| --- | --- | --- |
| Name | Start | Finish |
| Project Start | 12/26/2016 | 12/26/2016 |
| Phase 2 Project Plan Approve | 12/26/2016 | 12/26/2016 |
| Functional Specification Document (FSD) and Approval | 1/06/2017 | 1/06/2017 |
| Milestone 1 – ECS Security Group, SLB, VPC module Release | 2/23/2017 | 2/23/2017 |
| UAT Security Group, SLB, VPC module | 2/24/2017 | 3/3/2017 |
| Milestone 2 – OSS, RDS module Release | 4/20/2017 | 4/20/2017 |
| UAT OSS, RDS module Release | 4/21/2017 | 4/27/2017 |
| Delivering User Guide, UAT fixing and final sign-off | 5/5/2017 | 5/5/2017 |

# Stakeholder Communication Plan

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The below Plan can be easily developed in a chart format. The following sample chart can be used as a guide for the project manager. It is important to talk with project team members and key stakeholders as you prepare this plan.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Communication | Purpose | Audience | Author | Vehicle | Frequency |
| Status Reports | To keep key stakeholders informed of progress, issues, and solutions. | Project Reporting manager (Aliyun) | Project manager | Email | Weekly – On Friday |
| Technical Assistance and Troubleshooting | For questions and answer, sharing information | Project Team members, Client contact | Project Team members, Client contact | Email/Online Meeting | As needed |
| Shared Project Code Drop | Retains all current project documentation. | Project Technical Analyst (Aliyun) | Project Manager, project team members | GitHub Repository | On Release date |
| UAT Conduct | Run UAT to acknowledge project release | Project Technical Analyst (Aliyun) | Project Manager, project team members | Email/Online Meeting | During Scheduled date |

# Dependencies and Requirement

* Project Technical Functional Requirement need to be approved and sign-off before project execution starts
* To meet deliverable, Click2Cloud team needs Aliyun Cloud account created preferably from China Region. Click2Cloud Team will use this account during implementation and testing of modules.
* Coupon is required for existing Click2Cloud Aliyun Cloud Account. [Account will be shared as needed]
* Any update within REST API or Aliyun SDK for Python should be informed to Click2Cloud Team. Click2Cloud will do required analysis and will identify the impact. If the impact is significant, then it will be communicated to stakeholders for further decision.
* Ansible Tower environment for testing Alibaba modules and playbooks (Optional)

# Drop Release Process

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Click2Cloud fork Aliyun Repository

# Risk

Below is some risk predicted during life cycle of project development:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Description | Impact (H/M/L) | Probability  (H/M/L) | Response Strategy | Risk Owner |
| 1 | Unpredictable behaviour of Aliyun Instance Creation API from Click2Cloud Aliyun Cloud AK | H | H | Need another account for Click2Cloud Team from where Create Instance API should work and Click2Cloud Team should have access to Web Console | Project Technical Analyst (Aliyun) |
| 2 | Aliyun Cloud REST API Availability issue when both date and month is same e.g. 01/01, 02/02 | H | H |  | Project Technical Analyst (Aliyun) |

# Disclaimer

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This **DRAFT** Specification is being forwarded to you strictly for informational purposes before the next phase starts. This document covers kick-off for Phase 2 (ASPEN-2). The specification is "AS IS," "WITH ALL FAULTS" and Click2Cloud makes no warranties, and disclaims all warranties, express, implied, or statutory related to the specifications. THE CORPORATIONS ARE NOT LIABLE FOR ANY INCOMPLETENESS OR INACCURACIES. THE CORPORATIONS ARE NOT LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES RELATING TO THE SPECIFICATIONS OR THEIR USE.

# Appendix A: Document Change History

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| --- | --- | --- | --- |
| Version No. | Date | Name | Details |
| V1.0 | 12/26/2016 | Sandeep Thakre | Initial Kick-off Document |
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|  |  |  |  |