Manish Mishra

Email: [manish@click2cloud.net](mailto:manish@click2cloud.net)

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(Chef Integration)

Project Kick-off Doc – KITE

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This document contains unpublished confidential and proprietary information for Chef Integration for Aliyun Cloud

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# Introduction

**1**

## Project Overview

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Name** | Chef Integration | **Project Codename** | KITE |
| **Phase** | Phase I | **Project Manager** | Manish Mishra |

The primary goal for this project is to integrate Knife Plugins, Kitchen Drivers and Ohai Plugins for Elastic Computing Service (ECS) of Aliyun Cloud. An ECS computing services such as create instance, delete instance, list instance etc. are the manual processes. The Phase I (KITE) will focus on automating all these tasks using knife cloud plugins and chef server.

The Phase I (KITE) release will improve efficiencies by introducing infrastructure automation modules for Elastic Computing Service (ECS) 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 I includes to develop and test modules and interface to automate the instance related task through Chef Server. The table below defines the list of task that are covered in this project.

|  |  |
| --- | --- |
| # | Interfaces |
| **Knife ECS Plugin** | |
| 1 | ECS Options help content |
| 2 | Server Create |
| 3 | Server Start (Implicitly calling) |
| 4 | Server Stop (Implicitly calling) |
| 5 | Server Restart (Implicitly calling) |
| 6 | Server List |
| 7 | Server Delete |
| 8 | Server Show |
| 9 | Flavor List |
| 10 | Image List |
| 11 | Region List |
| 12 | SSH Implementation with Other Method (Analysis req.) |
| 13 | Bootstrapping ECS Node |
| 14 | Security Group list |
| **Kitchen ECS Driver (Implementation Platforms)** | |
| 15 | CentOS |
| 16 | Debian |
| 17 | FreeBSD |
| 18 | Ubuntu |
| 19 | Windows |
| 20 | Aliyun Linux |
| 21 | CentOS |
| **Ohai Custom Plugin** | |
| 22 | Include Attributes: PublicIP, PrivateIP, InstanceID, InstanceName, CPU, Memory, Bandwidth, IOOptimize, Region, Tag. |
| 23 | Ohai code Integration |

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# Roles & Responsibilities

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## Team Members

|  |  |  |
| --- | --- | --- |
| Role | Identity | Responsibilities |
| Project Reporting manager (Aliyun) | Need to be provided by Alibaba Team   * Name: * Profile/Designation: * Email: * Communication no: | Review project progress |
| Project Technical Analyst (Aliyun) | Need to be provided by Alibaba Team   * Name: * Profile/Designation: * Email: * Communication no: | Technical guideline, query resolve, validating drop release |
| UAT Team (Aliyun) | Need to be provided by Alibaba Team   * Name: * Profile/Designation: * Email: * Communication no: | Execute UAT |
| Project Manager | Manish Mishra | Planning, Project delivery, allocating and utilising resources, retrospective reports |
| Sr. Lead System Engineer | Kapil Thakkar | Management and support of the IT system environments, troubleshooting environments and module development |
| Senior Developer | Prachi Tiple | Module implementation and documentation |
| Developer | Atul Sirsode | Module implementation |
| Senior Test Engineer | Shrutika Gupta | Module test, system generation and verification plan, test results report |
| Test Engineer | Kunal Gujarkar | Module test, system generation and verification plan |

## 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)**

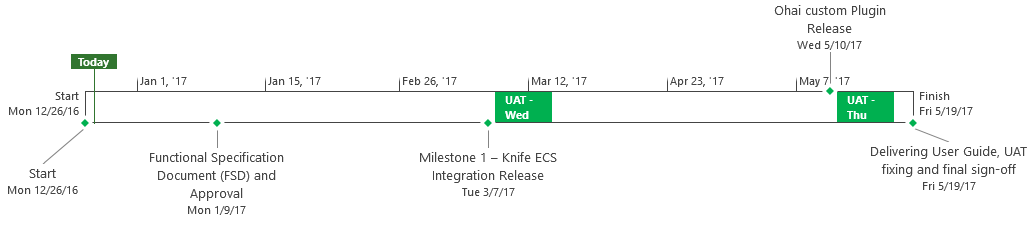
The person who must be informed that a decision or action has been taken

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project Deliverable and Activities | Project Sponsor | Reporting manager | Technical Analyst | UAT Team | Project Manager | Sr. Lead System Engineer | Sr. Developer | 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 1 Project Plan Approve | 12/27/2016 | 12/27/2016 |
| Functional Specification Document (FSD) and Approval | 1/09/2017 | 1/09/2017 |
| Milestone 1 – Knife ECS Integration Release | 3/7/2017 | 3/7/2017 |
| UAT - Knife ECS with AliCloud Team | 3/8/2017 | 3/14/2017 |
| Milestone 2 - Kitchen ECS Driver Release | 5/10/2017 | 5/10/2017 |
| UAT - Kitchen ECS Driver with AliCloud Team | 5/11/2017 | 5/17/2017 |
| Milestone 3 - Ohai custom Plugin Release | 5/10/2017 | 5/10/2017 |
| UAT - Ohai custom Plugin with AliCloud Team | 5/11/2017 | 5/17/2017 |
| Delivering User Guide, UAT fixing and final sign-off | 5/19/2017 | 5/19/2017 |

# 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 Ruby 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.
* Chef server is required for development and testing
* Aliyun Team to create GitHub private repository for source code management

# 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 I (KITE). 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 | 12/27/2016 | Manish Mishra | Initial Kick-off Document |
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