Chef Integration (KITE)

Change Request #1 (Security Group)

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Kapil Thakkar

Email: kapil@click2cloud.net

Document Version – V1.0

Version History

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| --- | --- | --- | --- |
| Version | Date | Name | Description of Change |
| 1.0 | 2017-03-11 | Kapil Thakkar | Change Request #1 (Security Group) |
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Reviewers

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| Name | Version Approved | Role | Date |
| Manish Mishra | 1.0 | Project Manager | 2017-03-11 |
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Table of Contents

[1 Introduction 3](#_Toc477040292)

[1.1 Objectives 3](#_Toc477040293)

[1.2 Change Request 3](#_Toc477040294)

[1.3 Scope 4](#_Toc477040295)

[1.4 Out of Scope 4](#_Toc477040296)

[1.5 Assumptions 4](#_Toc477040297)

[1.6 References 5](#_Toc477040298)

[2 Estimate 5](#_Toc477040299)

[3 Disclaimer 6](#_Toc477040300)

[4 Appendix A: Glossary 6](#_Toc477040301)

[5 Appendix B: Document Change History and Sign-off 6](#_Toc477040302)

[6 Point of Contact 6](#_Toc477040303)

# Introduction

## Objectives

The objective of this document is to describe Change Request #1 in KITE project. This document covers CR #1 scope and additional requirements raised by client to integrate security group command in Knife ecs plugin. The CR #1 will covers the implementation of sg create, add sg rules and sg delete command in Knife ecs plugin.

## Change Request

|  |  |
| --- | --- |
| **Change Request - Details** | |
| 1 | **Change Being Requested:**  Add new commands for creating security group and security group rules   1. Create Security Group 2. Add Rules in Security Group 3. Delete Security Group |
| 2 | **Technical Changes Required to Implement:**  This additional functionality requires to change the base, in which common functions of all commands are written in knife plugin also, the service needs to be changed for calling Security Group methods of aliyun\_ruby\_api SDK, along with this automation testing calling methods will be changed  **Changes are in following files:**   1. ecs\_base.rb 2. service.rb 3. security\_group.rb 4. ecs\_spec.rb   This additional functionality also requires new code implementation for the commands with all options and validations  **Creation of following new files:**   1. ecs\_sg\_create.rb (Add Rule is handled internally in command) 2. ecs\_sg\_create\_spec.rb 3. ecs\_sg\_delete.rb 4. ecs\_sg\_delete\_spec.rb   **Note: some additional files can be there on time as per need** |
| 3 | **Aliyun API calling using Aliyun ruby SDK:**  Aliyun ruby API SDK calls API using ruby along with all parameters in command methods  **Following methods will be called in SDK:**   1. CreateSecurityGroup 2. AuthorizeSecurityGroup 3. AuthorizeSecurityGroupEgress 4. DeleteSecurityGroup |

## Scope

The scope of this CR is to automate the security group related task through knife commands and customize the rules while creating. The table below defines the list of task that are covered in this project.

|  |  |
| --- | --- |
| **Knife ECS Plugin – Commands (CR #1)** | |
| 1 | Security Group Create |
| 2 | Security Group Add Rules (Internally calling with sg create) |
| 3 | Security Group Delete |

## Out of Scope

1. Other than the above tasks mentioned in [#1.3](#_Scope) will be consider as out of scope task for this project.
2. In KITE, Implementation are targeted for Linux and Windows systems only. The efforts are not considered for Mac Operating System.
3. The create vpc and request eip will be consider as out of scope.
4. Modifying existing security group is not part of this scope.
5. Aliyun Marketplace images will not be part of this scope.

## Assumptions

1. The technical platform such as Aliyun AK, Chef Server and Ruby SDK is available.
2. This document to be freeze and sign-off before implementation start.
3. Addition of new parameter or commands specified in [#1.3](#_Scope) will be treated as CR #2 after CR #1 sign-off.
4. The merge request shall be shared on GitHub for dropping code by Click2Cloud Team. The review and merging source code should be done by Aliyun Team.
5. All commands which need to integrate, are finalized by Aliyun Team under SOW.
6. In this phase Knife commands are targeted for Linux and Windows systems only.
7. All the supporting document will be provided in English language only.
8. Deploying and uploading Packages developed as a part of this project will be done by Aliyun Team. Such as hosting knife-ecs gems to ruby gem repository.
9. Any update within REST API or Aliyun SDK for Ruby should be informed to Click2Cloud Team. Click2Cloud will do the required analysis and will identify the impact. If the impact is significant, then it will be communicated to stakeholders for further decision.
10. KITE, targets running commands for English language only. Other languages such as Chinese is not considered.

## References

* <https://github.com/cheyang/aliyun_ruby_api>
* <https://intl.aliyun.com/help/doc-detail/25553.htm>
* <https://intl.aliyun.com/help/doc-detail/25554.htm>
* <https://intl.aliyun.com/help/doc-detail/25560.htm>

# Estimate

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Tasks / Features and Activities | Analysis & Tech Documentation | Quality Plan, Test Cases, Testing, Revalidation | Code Implementation | RSpec & Automation | User Guide and help document (hrs) |
| (hrs) |
|  |  |  |  |  |  |
| Knife ECS Plugin (CR-#1) |  |  |  |  |  |
| **Knife ECS Security Group** |  |  |  |  |  |
| Security Group Create | 24 | 32 | 32 | 48 | 24 |
| Security Group Rules (Implicitly calling) | 16 | 32 | 32 | 48 |
| Security Group Delete | 16 | 24 | 24 | 40 |
| **UAT Support and Feedback** | 0 | 32 | 0 | 0 |
|  |  |  |  |  |  |
| Individual Efforts | 56 | 120 | 88 | 136 | 24 |
| Grand Total for Development (Hrs) | 424 | | | | |

**NOTES:**

* Implementation covers effort required for implementing functions, plugins and unit and integration test scripts in Chef.
* The Implementation of security group feature in knife ecs plugin is referred from the Aliyun API.
* Create VPC is not part of this implementation. VPC id should be available to create security group with vpc.
* Security group add rules will be calling internally with sg create command.

# Disclaimer

This **DRAFT** Specification is being forwarded to you strictly for informational purposes and sign-off requirement before development starts. This document covers CR #1 in KITE project and its implementation with Chef for Aliyun (Alibaba) Cloud. 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: Glossary

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| No. | Initial Name | Description |
| 1 | CR | Change Request |
| 2 | ECS | Elastic Compute Service |
| 3 | SG | Security Group |

# Appendix B: Document Change History and Sign-off

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| Version No. | Date | Name | Sign-Off by |
| V1.0 |  | Shuwei |  |
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# Point of Contact

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| Name | Designation | Email |
| Manish Mishra | Project Manager | [manish@click2cloud.net](mailto:manish@click2cloud.net) |
| Kapil Thakkar | Sr. Lead Software Design Engineer | [kapil@click2cloud.net](mailto:kapil@click2cloud.net) |
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