An abstract background featuring a collection of 3D rectangular blocks in white, grey, and red, arranged in a staggered, architectural pattern.

# FUJITSU Cloud Service K5 IaaS Service Portal User Guide

Version 1.4  
FUJITSU LIMITED

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# Preface

## Purpose of This Manual

This manual describes procedure for using the features that are provided by FUJITSU Cloud Service K5 IaaS.



Tip Service Portal provides a subset of the main features that are provided by K5. In order to use the full set of features please use REST API

Recommend the following related manuals for reference :

- K5 Portal User Guide
- IaaS Features Handbook
- IaaS API User Guide
- IaaS API Reference
  - Foundation Service
  - Network
  - Application Platform Service
  - Management Administration
  - Contract Management

## Abbreviations

Table 1: Name of product described as follows

Name of the Product	Abbreviation	
FUJITSU Cloud Service K5 IaaS	K5 IaaS	
Microsoft® Windows Server® 2012 SE R2	Windows 2012 R2	
Microsoft® Windows Server® 2008 SE R2	Windows 2008 R2	Windows
Microsoft® Windows Server® 2008 EE R2	Windows 2008 R2	
Red Hat® Enterprise Linux® 6.5 (for Intel64)	RHEL6.5	Linux
Community Enterprise Operating System 6.5	CentOS 6.5	CentOS
Community Enterprise Operating System 7.2	CentOS 7.2	
Red Hat Update Infrastructure	RHUI	
Windows Server Update Services	WSUS	
VMware® vSphere®	VMware vSphere	VMware
VMware® ESX®	ESX	
VMware® ESXi™	ESXi	
VMware® vCenter Server™	vCenter Server	
VMware® vSphere® Client	vSphere Client	
VMware Tools™	VMware Tools	

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## Revision History

Version	Date updated on	Section	Overview
1.2	29th February, 2016	<i>Creating a Network and Subnet</i> on page 26	Modified explanation
1.3	1st April, 2016	User Registration User creation Display of previous usage fee (fixed amount)	Associated with K5 portal display, Function transfer
1.4	19th May, 2016	Addition to Multi region usage procedure.	

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# Part 1: Preface

---

Topics:

- *Points to Note*



# 1.1 Points to Note

## 1.1.1 Operation Environment

This section describes the operation environment of Service Portal.

Service Portal works on the following operating systems and browsers.

Table 2: Operating Environment

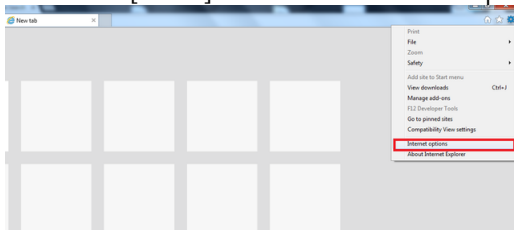
Type	Supported Version
Operating system (OS)	• Windows 7/8/8.1
Browser	• Microsoft Internet Explorer 11

## 1.1.2 Cookies Settings Confirmation

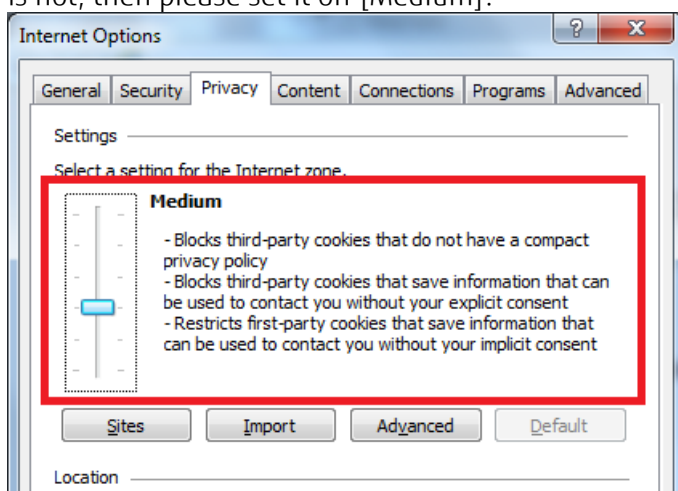
In order to use the Service Portal, you need to enable your browser's cookies.

### Procedure

1. From the [Tools] button of Internet Explorer, click on [Internet Options] menu.



2. Click on [Privacy] button, check the internet Zone setting if its on [medium] or not. In case it is not, then please set it on [Medium].



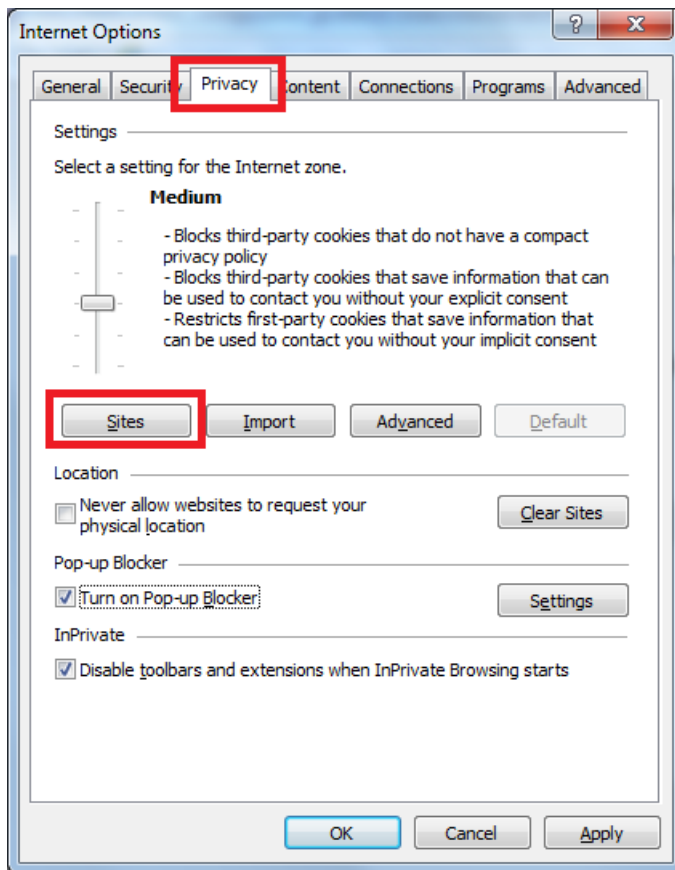
Cookies are now enabled.



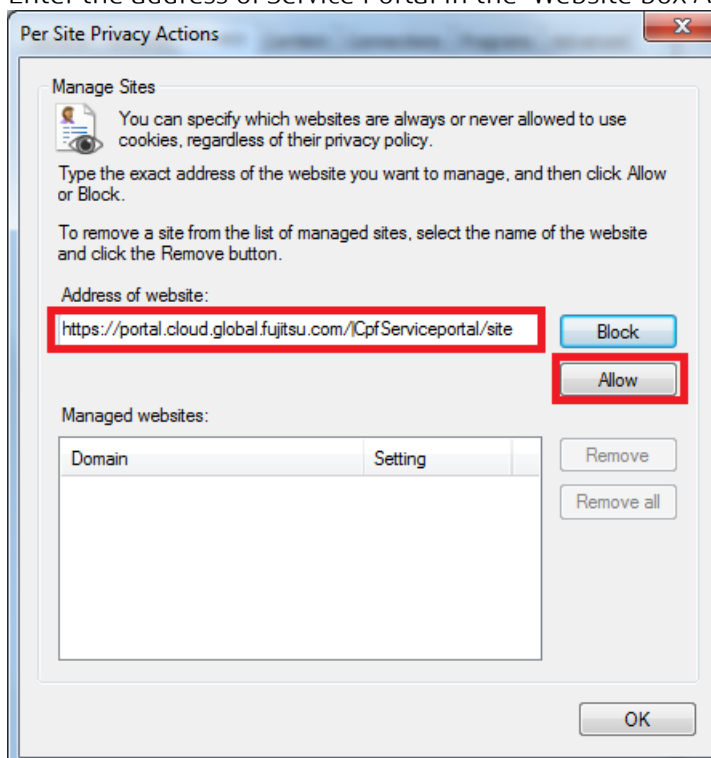
Tip

If you are unable to set the level of the Internet zone to "Medium," Please apply the following below individual site setting.

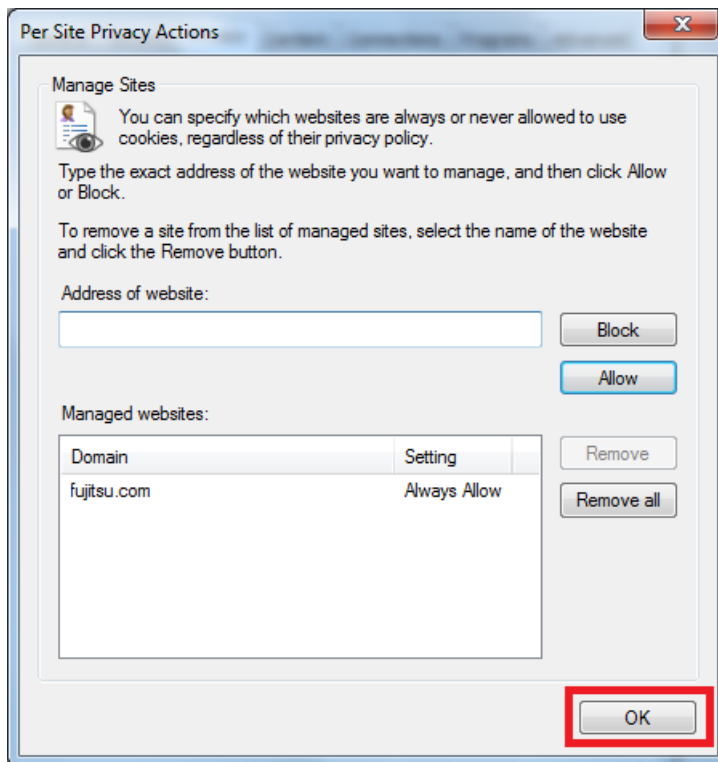
3. Click the [Site] button.



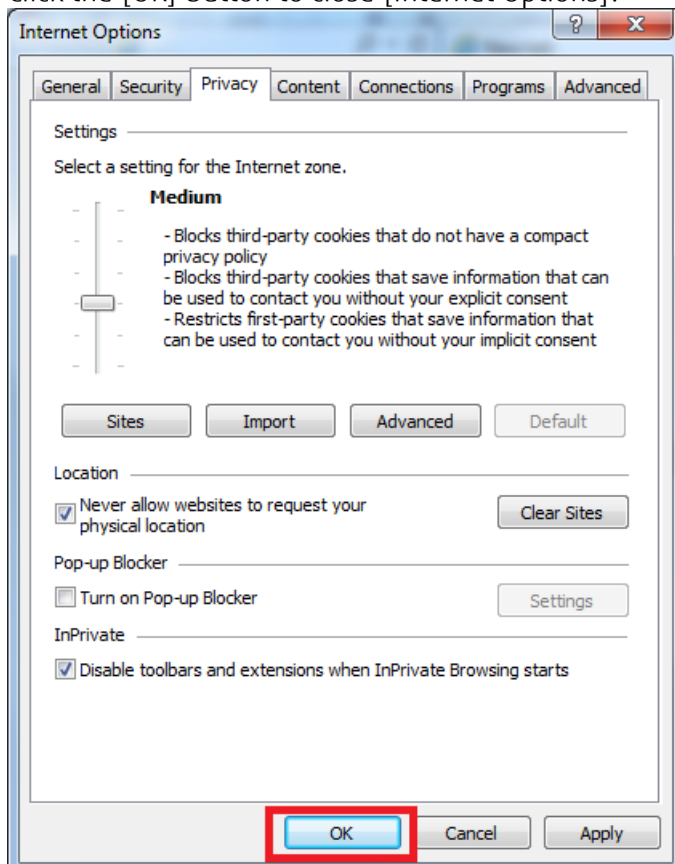
4. Enter the address of Service Portal in the "Website box Address" and click the [Allow] button.



5. Click the [OK] button.



6. Click the [OK] button to close [Internet Options].



As per above, cookies enabling procedure is complete for each individual site.

---

# Part 2: Assigning a Role to User

---

Topics:

- *Assign an Administrator Role as per Group Registration*
- *Assigning a specific Role*

## 2.1 Assign an Administrator Role as per Group Registration

### 2.1.1 User Group Registration

Assign a role to the created user based on the group to be registered.

#### Before you begin

Login as a registered user on K5 portal .

#### About this task

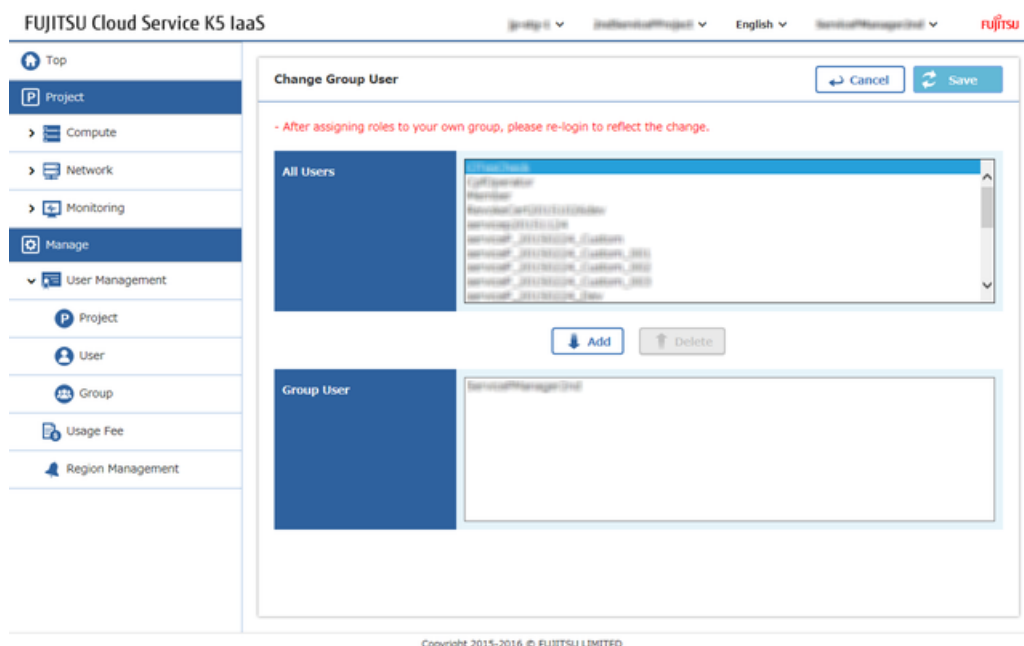
Group registration can be done by the user having full administrator rights registered on K5 portal.

#### Procedure

1. From the left side menu, click [User Management] > [Group].  
The [Group] list screen will be displayed.
2. On the [Group] screen, click on [Change User] from the [Action] menu of the [domainmanager] group.



3. At Group User change screen, under the column [All Users], select the registered user and click on the [Add] button.



4. Confirm if the selected user has been moved to [Group User] column and then click the [Save] button.

## 2.2 Assigning a specific Role

### 2.2.1 Assign Roles for a Specific Project

Granting a role for a specific project is also possible.

#### Before you begin

On K5 Portal, log in as a registered user .

#### About this task

This section describes the procedure to grant the [Operator role], the [System Owner role], or the [Observer role] and creating a user for a specific project.

In this section, the following three users are created as examples:

- User A
- User B
- User C

#### Procedure

1. On the [User] screen, click on [Action] menu provided for each created users, and then click on [Change Role] button.



2. From the [Change User Role] screen, Click on [Project] Tab.
3. Set the role for each user as shown below, and then click the [Change] button.

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Project | English | Service Management | FUJITSU

Top

Project

- Compute
- Network
- Monitoring
- Manage
  - User Management
    - Project
    - User
    - Group
    - Usage Fee
    - Region Management

### Change User Role

Cancel Change

- You can only delete one role when deleting roles assigned to yourself. If multiple roles need to be deleted, please re-login between the delete actions.

User Name Member

Domain Project

Role Target

Global Operation

Preset	Role to Assign
cpf_operator	cpf_observer _member_ cpf_systemowner

Regional Operation

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Settings	User A	User B	User C
Role Target	Select a specific project to which the roles are granted		
Role	Select [Operator role] and add to the [Role to Assign] column.	Select [System Owner role] and add to the [Role to Assign] column.	Select [Observer role] and add to the [Role to Assign] column.

- Check the settings on the confirmation screen and click the [OK] button.



---

# Part 3: Creating a Group

---

## Topics:

- *Creating a Group That Is Granted a Role for a Specific Project*
- *Creating a Group That Is Granted a Role for Multiple Projects*

## 3.1 Creating a Group That Is Granted a Role for a Specific Project

### 3.1.1 Creating a Group for a Specific Project granted with the System Owner role

It is possible to create a new group and grant any role to that group for a specific project.

#### Before you begin

Log in as a user who was granted a role in [User Group Registration](#) on page 6.

#### About this task

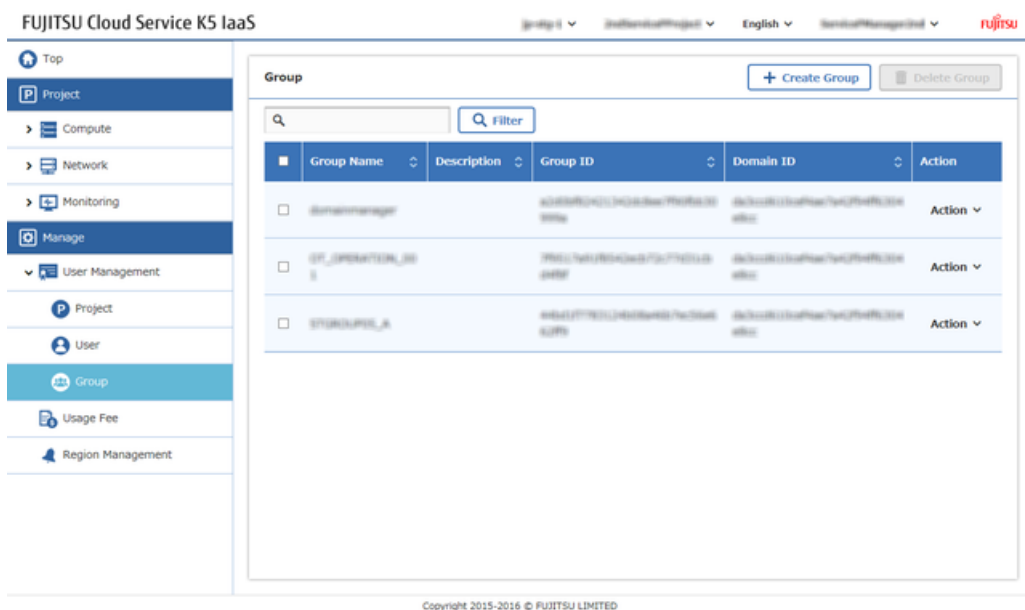
This section explains the procedure of creating a new group and grant the System Owner role to the group for a specific project.

#### Procedure

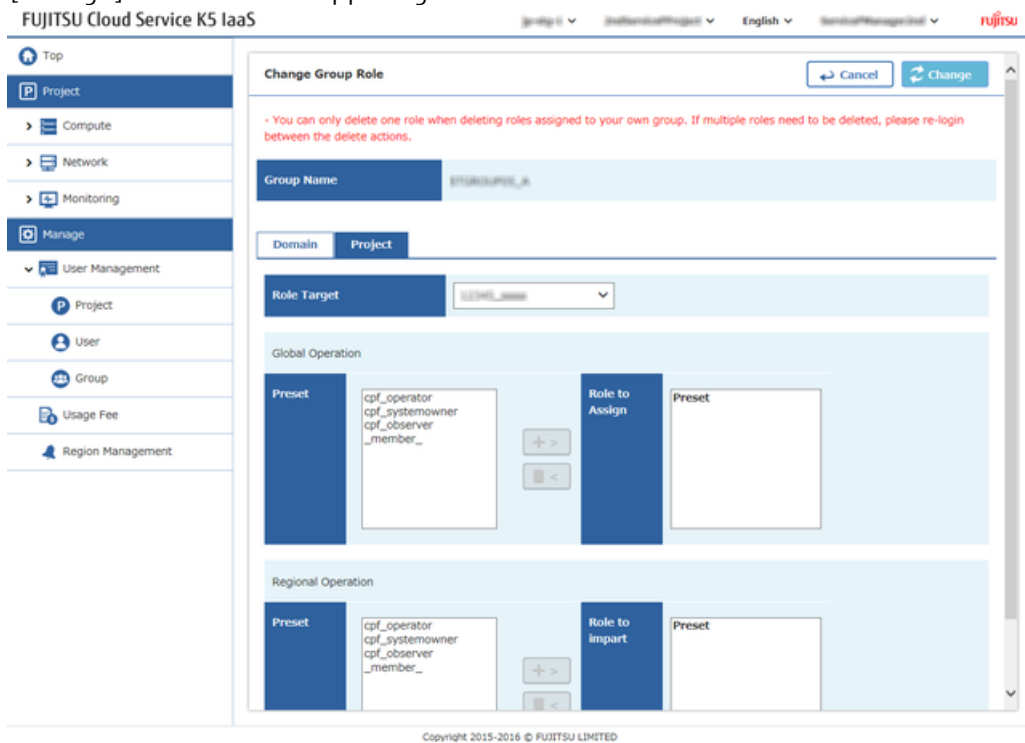
1. From the left-side menu, click on [User Management] > [Group].  
The [Group] list screen will be displayed.
2. Click the [Create Group] button on the [Group] screen.
3. On the [Create Group] screen, enter a name for the group and click the [Create] button on the upper right corner of the screen.

The screenshot displays the 'Create Group' interface within the FUJITSU Cloud Service K5 IaaS console. The left-hand navigation pane is open, showing the 'User Management' section with 'Group' selected. The main content area features a 'Create Group' form with a 'Group Name' field containing 'STANDARD\_A' and an empty 'Description' field. 'Cancel' and 'Create' buttons are located at the top right of the form. The page header includes the service name and various dropdown menus, while the footer contains the copyright notice.

4. On the [Group] screen, click the [Action] menu of the created group, and then click [Change Role].



- When the [Change Group Role] screen appears, assign the required roles, and then click the [Change] button on the upper right corner of the screen.



Item Name	Description
Role Target	Select a specific project
Role	From the [Preset] column, select the [System Owner Role] and add to the [Role to Assign] column.

- From the screen of [Result of Group Role Change], check the contents and complete the procedure by clicking the [OK] button displayed on the top right corner .

- Top
- Project
- Compute
- Network
- Monitoring
- Manage
  - User Management
    - Project
    - User
    - Group
    - Usage Fee
    - Region Management

## Result of Group Role Change

OK



Filter

## Global Operation

Role Name	Allocation Target Scope	Control Type	Role Type	Success / Failure
_member_	Roles allocated between group and project	Add	Preset	Success

## Regional Operation

Role Name	Allocation Target Scope	Control Type	Role Type	Success / Failure
_member_	Project	Add	Preset	Success

## 3.2 Creating a Group That Is Granted a Role for Multiple Projects

### 3.2.1 Creating a Group for Multiple Projects granted with System Owner role

With one single group creation, you can set a group having specific role for multiple projects.

#### Before you begin

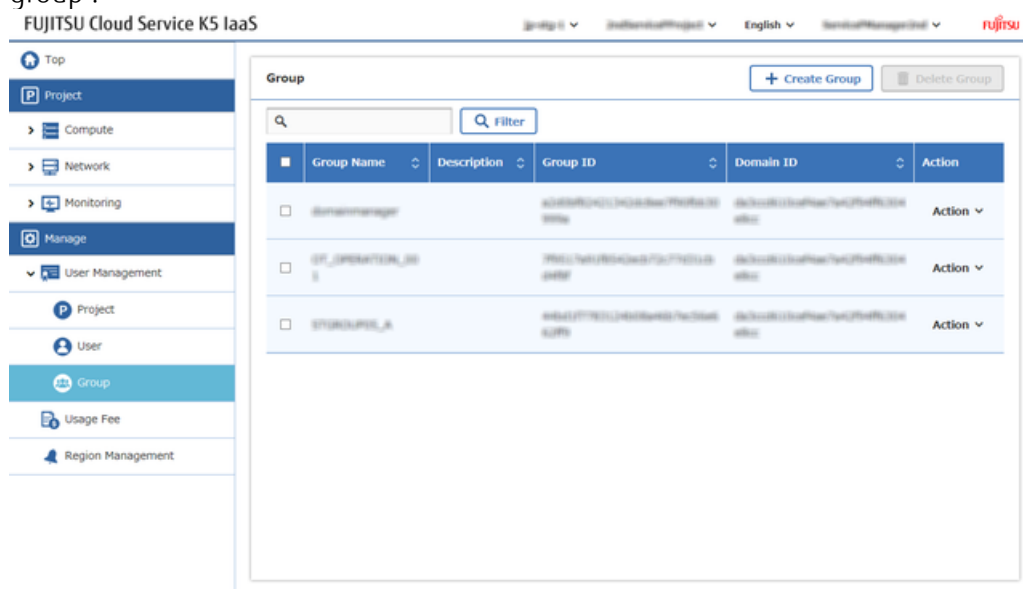
- Login as the user who was granted with role in [User Group Registration](#) on page 6.
- Use the project that was created in [Creating a Group for a Specific Project granted with the System Owner role](#) on page 11.

#### About this task

In the following procedure, additional project's role will be granted to the target project.

#### Procedure

1. From the left-side menu, click [User Management] > [Group]  
The [Group] list screen will be displayed.
2. On the Group screen, Click on [Change Role] from the [Action] menu, and select the target group .



3. On the [Change Group Role] screen, assign the required roles, and then click on [Change] button.

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Service Management

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User Management

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Usage Fee

Region Management

Change Group Role

Cancel Change

You can only delete one role when deleting roles assigned to your own group. If multiple roles need to be deleted, please re-login between the delete actions.

Group Name

STORCLOUDPaaS\_A

Domain Project

Role Target

Global Operation

Preset

cpf\_operator  
cpf\_systemowner  
cpf\_observer  
\_member\_

Role to Assign

Preset

Regional Operation


Preset

cpf\_operator  
cpf\_systemowner  
cpf\_observer  
\_member\_

Role to Import

Preset

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Item Name	Description
Role Target	 <p>Select a different project from the project which has been already granted a role.</p>
Role	From the [Project] column, select [System Owner Role] and add to the [Role to Assign] column.

4. From the [Result of Group Role Change] screen, check the contents, and click the [OK] button to complete the procedure.

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Region Management

Result of Group Role Change

OK

Filter

Global Operation

Role Name	Allocation Target Scope	Control Type	Role Type	Success / Failure
_member_	Roles allocated between group and project	Add	Preset	Success

Regional Operation

Role Name	Allocation Target Scope	Control Type	Role Type	Success / Failure
_member_	Project	Add	Preset	Success

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## 3.2.2 Grant and Verify the Group Role

Even if the user is not granted with the role, if user belongs to that group then it is possible to perform the work granted to that group.

## Before you begin

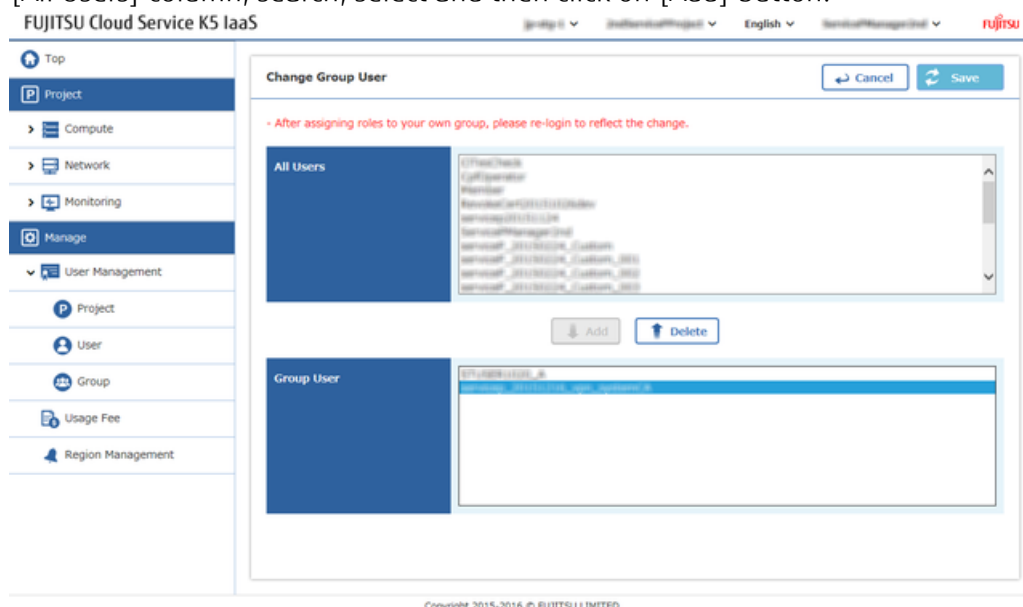
- Log in as the user who was granted a role in *User Group Registration* on page 6.
- Prepare the users who have only the Member role.
- Use the project that was created in the procedure described in *Creating a Group for a Specific Project granted with the System Owner role* on page 11.

## About this task

This section describes the procedure of how to add the users who have only the Member role to a group.

## Procedure

1. From the left-side menu, click [User Management] > [Group].  
The [Group] list screen will be displayed.
2. From the [Group] screen, find the group which has specific role, and click on [Change Group User] from the [Action] menu of the group.
3. From the [Change Group User] screen, find users who have only the Member role from the [All Users] column, search, select and then click on [Add] button.



4. Confirm that the target users have been added to the [Group User] column, and then click [Save] button to complete the procedure.

---

# Part 4: Utilization of Multi-region

---

Topics:

- *Start Region Utilization*



## 4.1 Start Region Utilization

### 4.1.1 Start Region Utilization

In case of using a different region other than the current region then, follow the "start usage procedure" of that region.

#### Before you begin

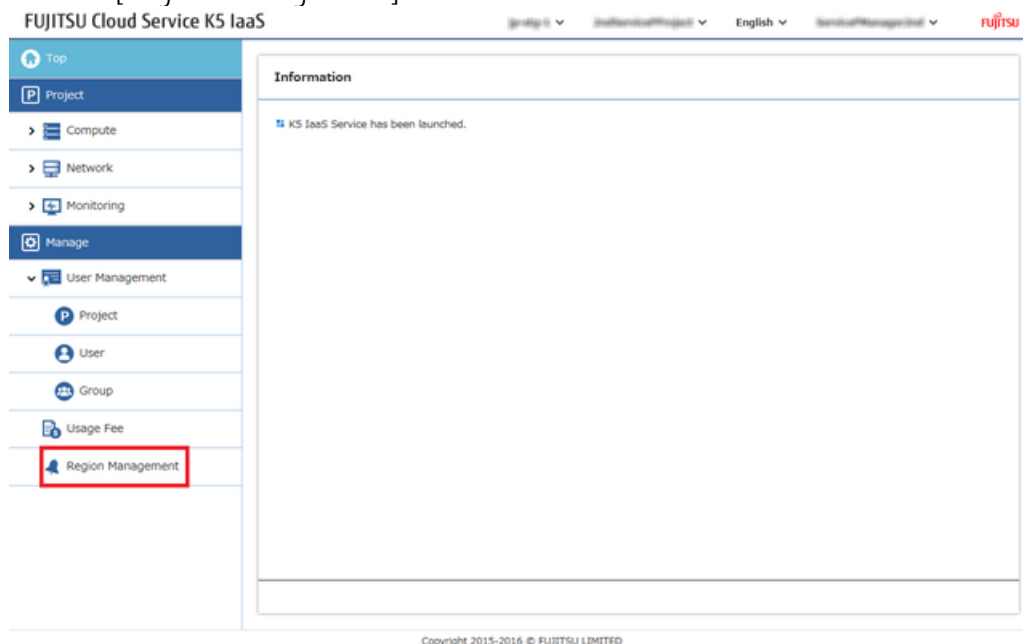
- Login as Contractor role User.
- There might be some regions which are not used yet out of multiple regions that exists.

#### About this task

Below steps explains "start usage procedure" of the region.

#### Procedure

1. Click on [Region Management] from left side menu.



2. From the [Manage Regions Used] screen, out of the regions which have [Not Used] status, in order to start the usage of those region, click on [Start Use] from the [Action] menu. .

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jp-rtg-01 ▾ 2ndServiceProject ▾ English ▾ ServiceManager001 ▾ **fujitsu**

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**Manage**

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Region Management

**Manage Regions Used**

Region Name	Status	Action
jp-rtg-01	In Use	Action ▾
jp-west-1	Not Used	Action ▾ Start Use

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3. Once the screen is changed to [Manage Regions Used], check for [Preparing] status.

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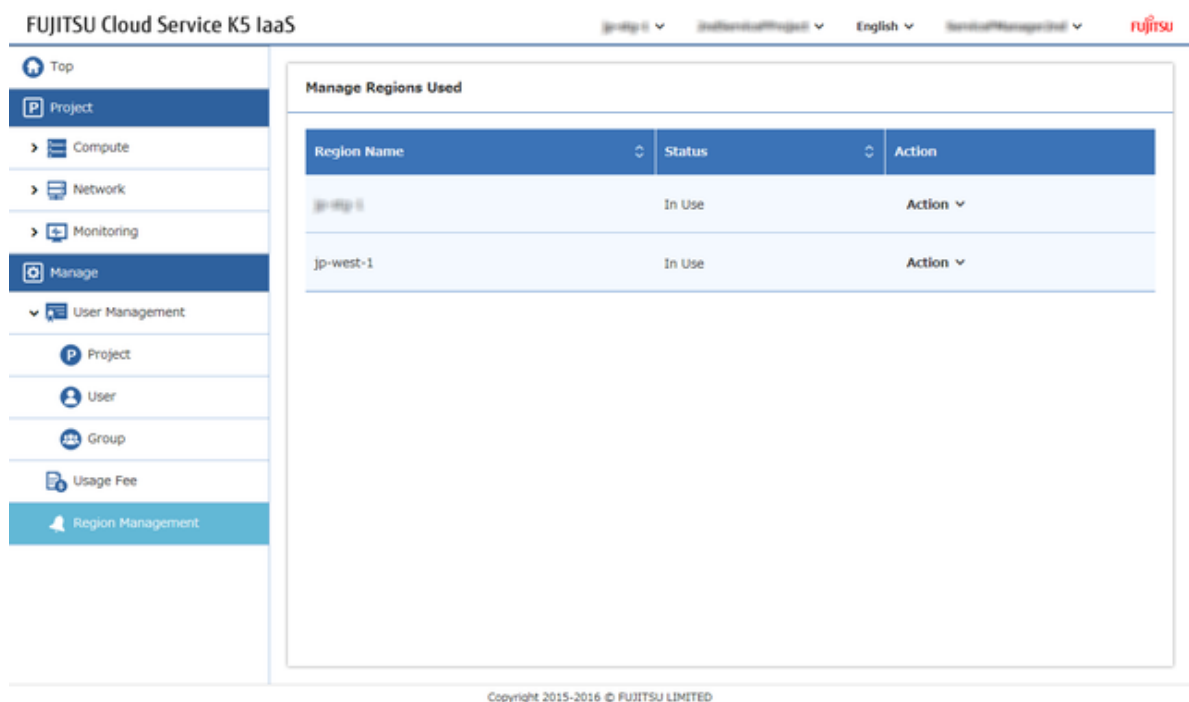
Region Management

**Manage Regions Used**

Region Name	Status	Action
jp-rtg-01	In Use	Action ▾
jp-west-1	Preparing	Action ▾

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4. Refresh the screen after a while, check for the status as [In use] of the region which was previously [Preparing] .



## 4.1.2 Connect to the Utilized Region

When the user starts the usage of the region in a Contractor role, that user and all the users of that domain can start the usage of that region.

### Before you begin

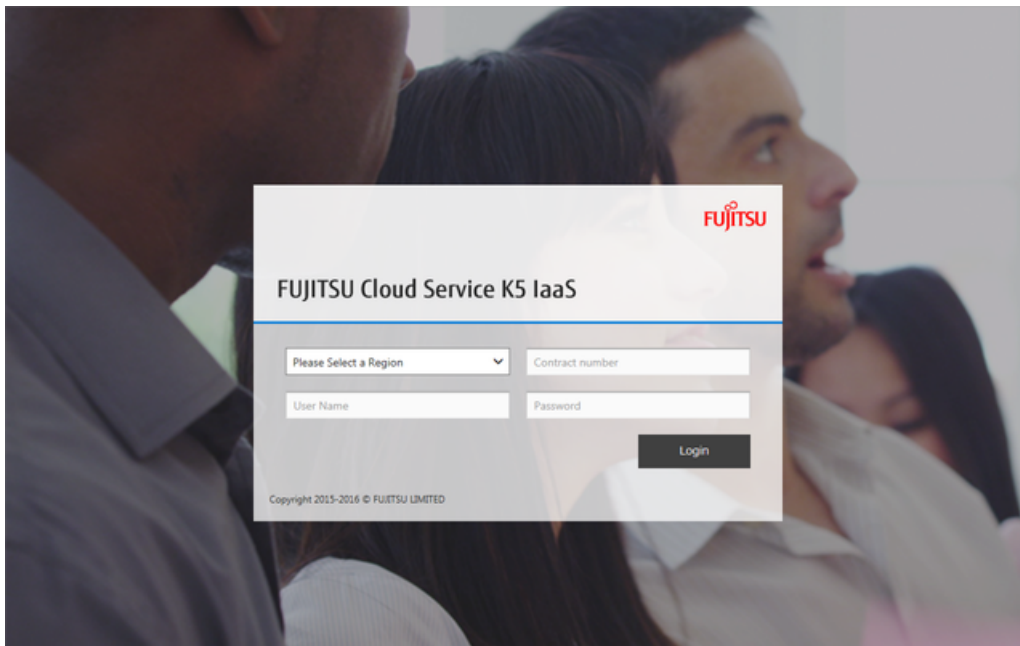
Arrange the user and operate which belongs to domain with Contractor role created as mentioned in [Start Region Utilization](#) on page 18

### About this task

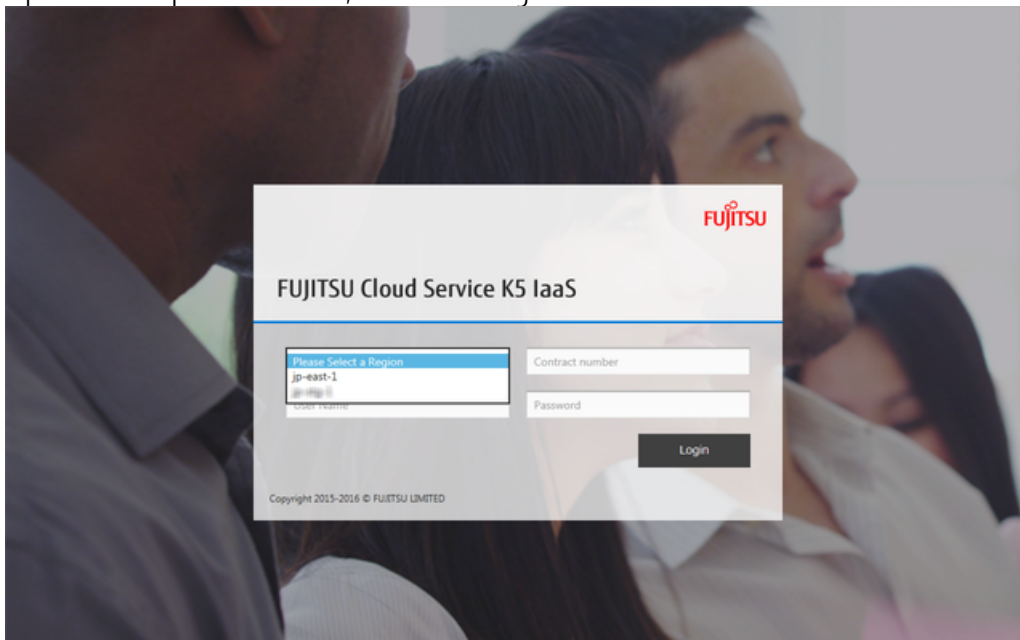
When the "usage" of that region has been implemented, then login to that region is possible.

### Procedure

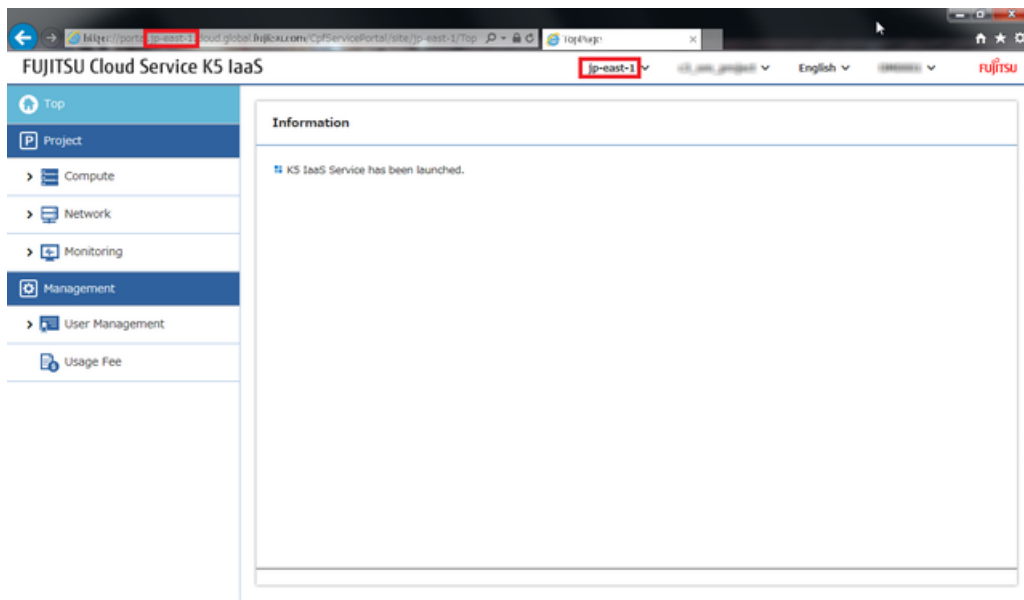
1. Open the Login Page



2. Open the drop down menu, select the region which need to be used.



3. When you enter the [Contract number], [User name], [Password] and click on [Login] button, you can login to the desired region. If the header part is selected as region name, then please make sure that the selected region name is included in the URL. .



---

# Part 5: Creating a Virtual System

---

Topics:

- *[Building a Virtual Network](#)*
- *[Creating a Virtual Server](#)*
- *[Creating a Load Balancer](#)*
- *[Using a Template](#)*

## 5.1 Building a Virtual Network

### 5.1.1 Creating a Virtual Router

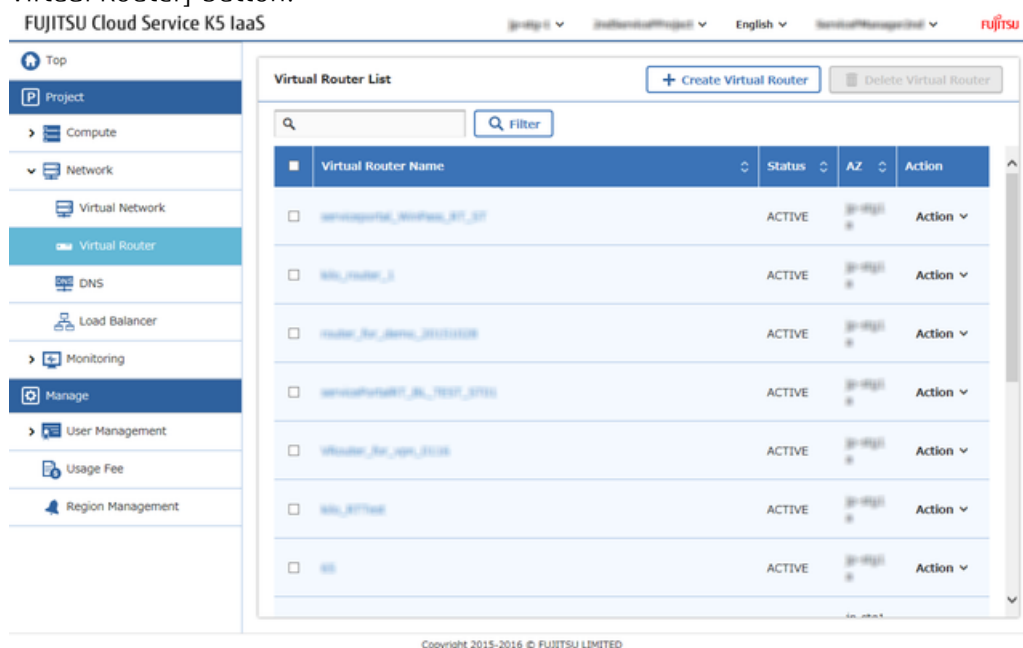
Create a virtual router to communicate with virtual resources that are created on the K5 IaaS system.

#### About this task

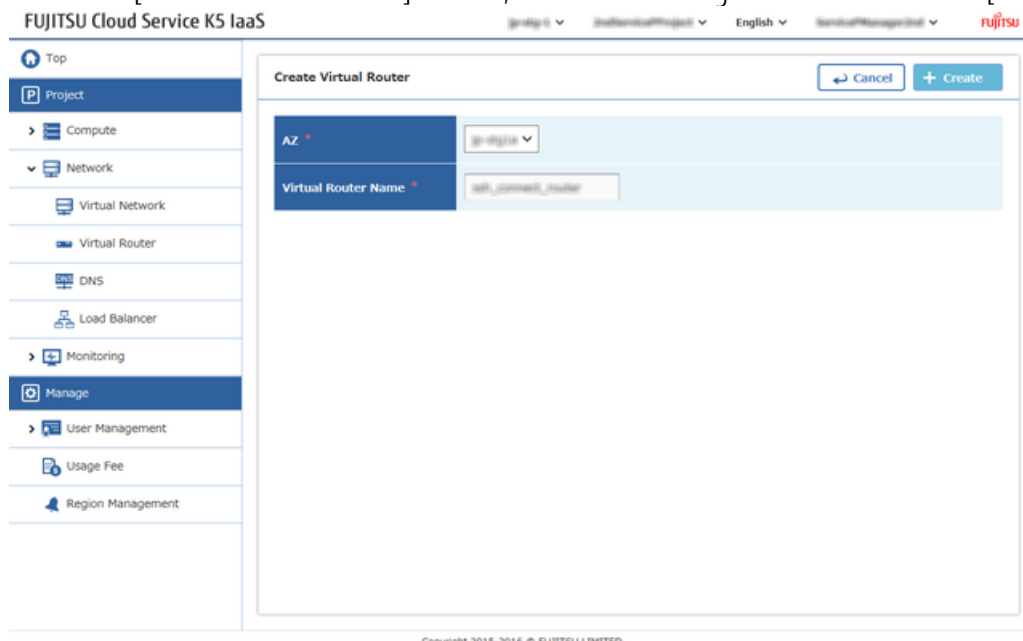
This section describes the procedure for creating a virtual router.

#### Procedure

1. From the left-hand menu, select [Network] > [Virtual Router], and then click on [Create Virtual Router] button.



2. From the [Create Virtual Router] screen, enter the settings items and click on [Create] button.



Item Name	Description
AZ	Select the availability zone where the virtual router will be created
Virtual Router Name	Specify a name for the virtual router

3. The procedure is complete when the created virtual router has been added on the [Virtual Router List] screen and the status is [Active].

## 5.1.2 Connecting a Virtual Router to an External Network

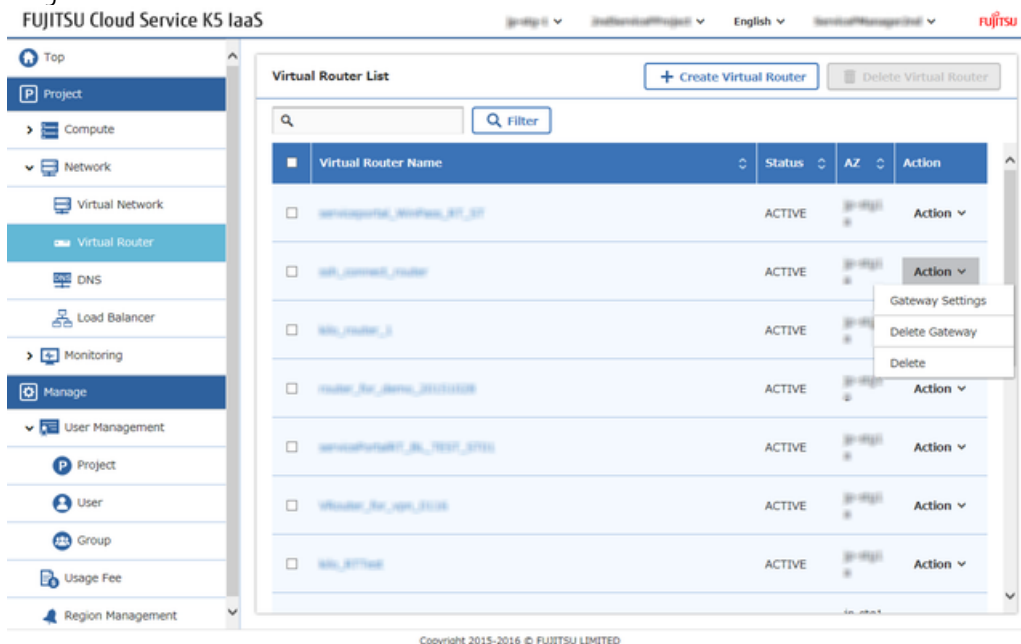
Configure the settings to enable the created virtual router to communicate with an external network (Internet).

### About this task

This section explains the procedure to connect an external network to the virtual router that was created in [Creating a Virtual Router](#) on page 24.

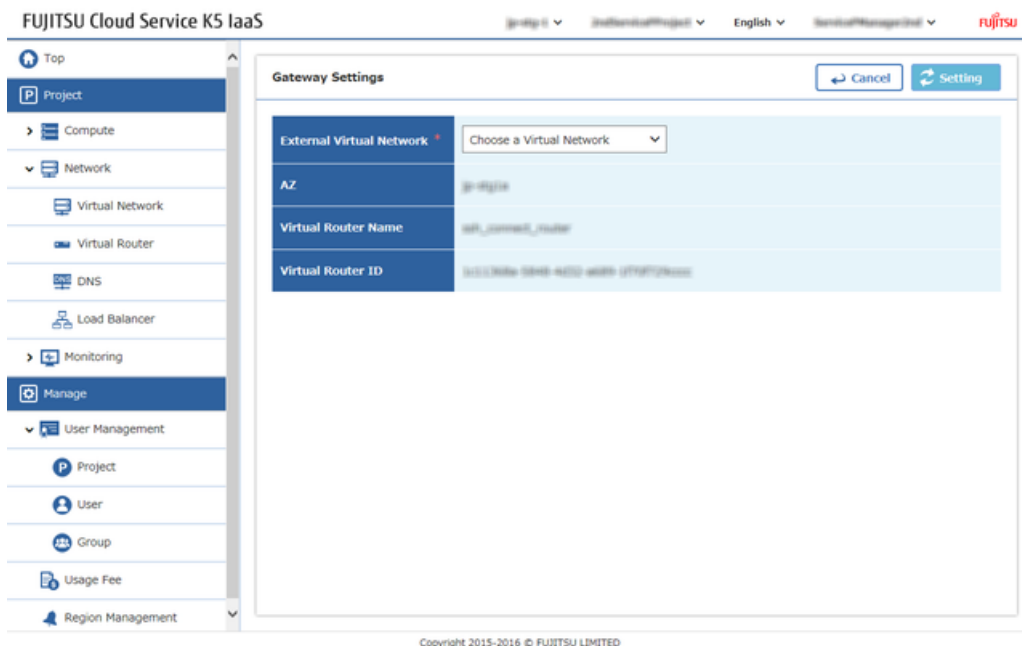
### Procedure

1. From the left-hand menu, click on [Network] > [Virtual Router].  
The [Virtual Router List] screen will be displayed.
2. From the [Virtual Router List] screen, click [Gateway Settings] on the [Action] menu of the target virtual router.



3. On the [Gateway Settings] screen, from the [External Virtual Network] pull-down menu, select the external network intended for connection to the virtual router.





4. Click the [Setting] button in the upper right corner of the screen to complete the procedure.

## 5.1.3 Creating a Network and Subnet

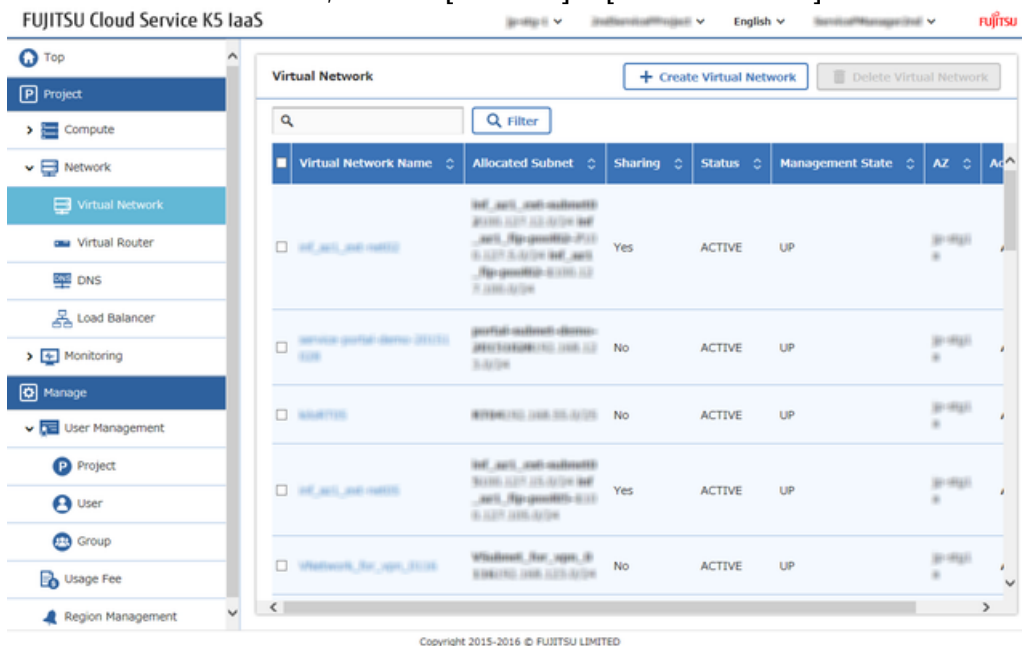
Create a virtual network and subnet in order to deploy the Virtual servers etc.

### About this task

This section describes the procedure for creating a virtual network and configuring settings of private IP addresses range as its subnet.

### Procedure

1. From the left-hand menu, click on [Network] > [Virtual Network].



The [Virtual Network] list screen will be displayed


2. On the [Virtual Network] list screen, click the [Create Virtual Network] button.

- On each tab of the [Create Virtual Network] screen, enter the settings items and click the [Create] button.

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### [Virtual Network] tab

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Item Name	Description
AZ	Select an availability zone for the creation destination  Select the availability zone that was selected in <a href="#">Creating a Virtual Router</a> on page 24.
Virtual Network Name	Specify any virtual network name
Administrative Status	Select [UP]

### [Subnet] tab

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Virtual Router

DNS

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Manage

User Management

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User

Group

Usage Fee

Region Management

### Create Virtual Network

Cancel Create

Virtual Network Subnet Subnet Details

Create Subnet Yes


Subnet Name sub\_connect\_subnet

Virtual Network Address 192.168.123.0/24

Gateway Yes

Gateway IP

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Item Name	Description
Create Subnet	Select [Yes]
Subnet Name	Specify any subnet name
Virtual Network Address	Specify the network address which is used for virtual server in the CIDR notation <div>  Example: 192.168.123.0/24 </div>
Gateway	Select [Yes]
Gateway IP	Specify in accordance with the virtual network address

#### [Subnet Details] tab

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Compute

Network

Virtual Network

Virtual Router

DNS

Load Balancer

Monitoring

Manage

User Management

Project

User

Group

Usage Fee

Region Management

### Create Virtual Network

Cancel Create

Virtual Network Subnet Subnet Details

DHCP Enabled

IP address allocation pool

DNS Server

Add Route Settings

<https://123.162.133.78/CpfServicePortal/site/jp-stg-1/NetworkSetting/doi=create#subnetDetail>

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Item Name	Description
DHCP	Select [Enabled]

Item Name	Description
IP address allocation pool	Do not set
DNS Server	Select the DNS server of Availability Zone for the creation Destination Ex: Such as for 'uk-1a', set 62.60.39.9 and 62.60.39.10
Add Route Settings	Do not set

- The procedure is complete once the row of created virtual network has been added on the [Virtual Network] screen.

## 5.1.4 Connecting Virtual Router to Virtual Network

Configure the settings to enable an external network (Internet) to communicate with the virtual network via a virtual router.

### About this task

This section describes the procedure of connecting a virtual network created in [Creating a Network and Subnet](#) on page 26 to the virtual router that is used in [Connecting a Virtual Router to an External Network](#) on page 25.

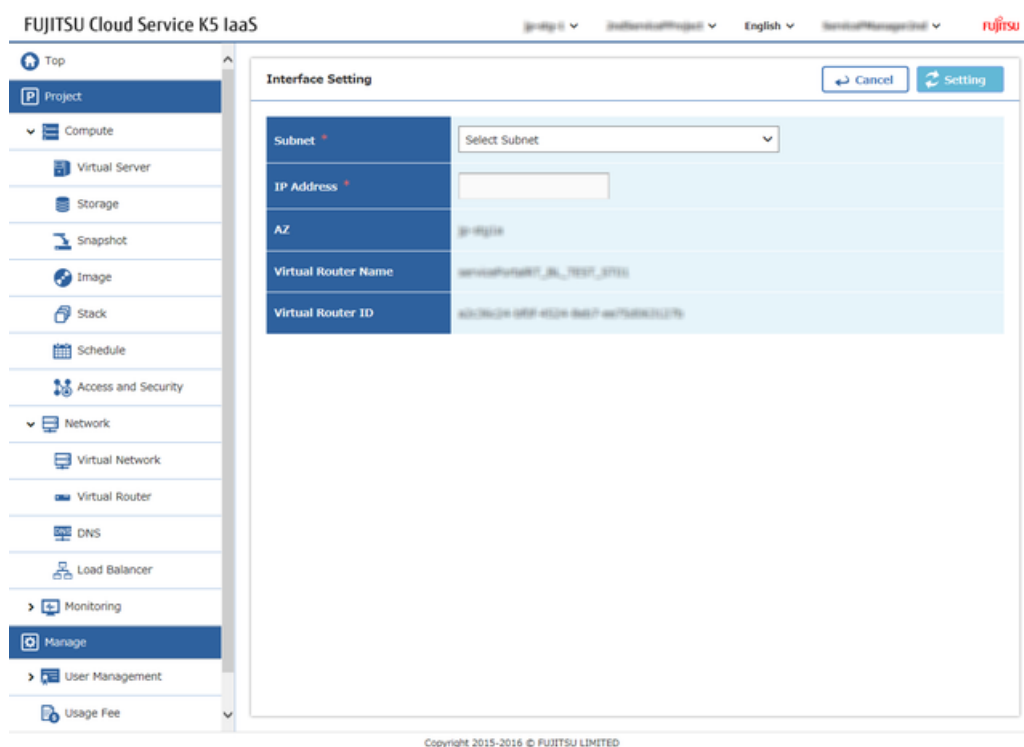
### Procedure

- From the left-hand menu, click [Network] > [Virtual Router].  
The [Virtual Router] list screen will be displayed.
- On the [Virtual Router] list screen, click the name of the target virtual router.
- On the [Virtual Router Details] screen, click the [Add Interface] button.

The screenshot displays the 'Virtual Router Details' page in the FUJITSU Cloud Service K5 IaaS console. The left sidebar shows the navigation menu with 'Network' > 'Virtual Router' selected. The main content area shows the details of a specific virtual router. The 'Virtual Router Details' section includes fields for Name, ID, AZ, Status (ACTIVE), and External Gateway. Below this, the 'Interface' section contains a table with two entries, each representing a network router interface. The table has columns for Port Name, Private IP, Status, Type, Management State, Global IP, and Action. Both interfaces are currently in an 'ACTIVE' state.

Port Name	Private IP	Status	Type	Management State	Global IP	Action
networkrouter-interface-1	10.0.0.1	ACTIVE	networkrouter_interface	true		Action
networkrouter-interface-2	10.0.0.2	ACTIVE	networkrouter_interface	true		Action

- From the [Interface Setting] screen, enter the following settings items, and then click the [Setting] button.



Item Name	Description
Subnet	Select the subnet which is connected to the virtual router
IP Address	Specify the gateway IP address of the above subnet

5. The procedure is complete once the set interface has been added on the [Virtual Router Details] screen.

## 5.1.5 Creating a Key Pair

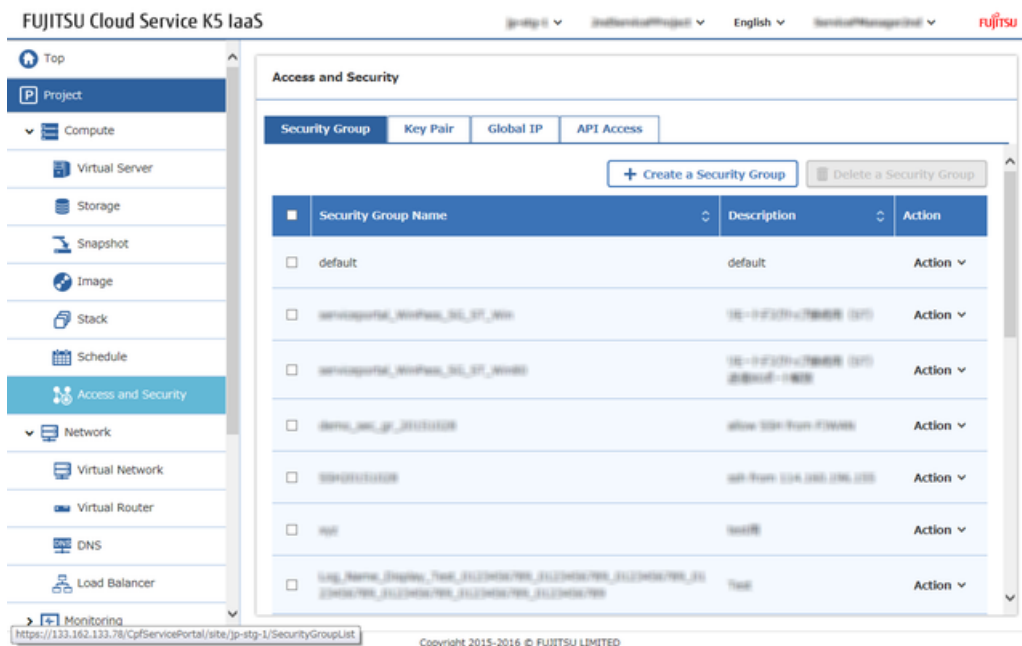
Create a key pair to be used while logging into Linux Virtual Server.

### About this task

This section describes the procedure of creating a key pair that is used for SSH logins and downloading of the created key file.

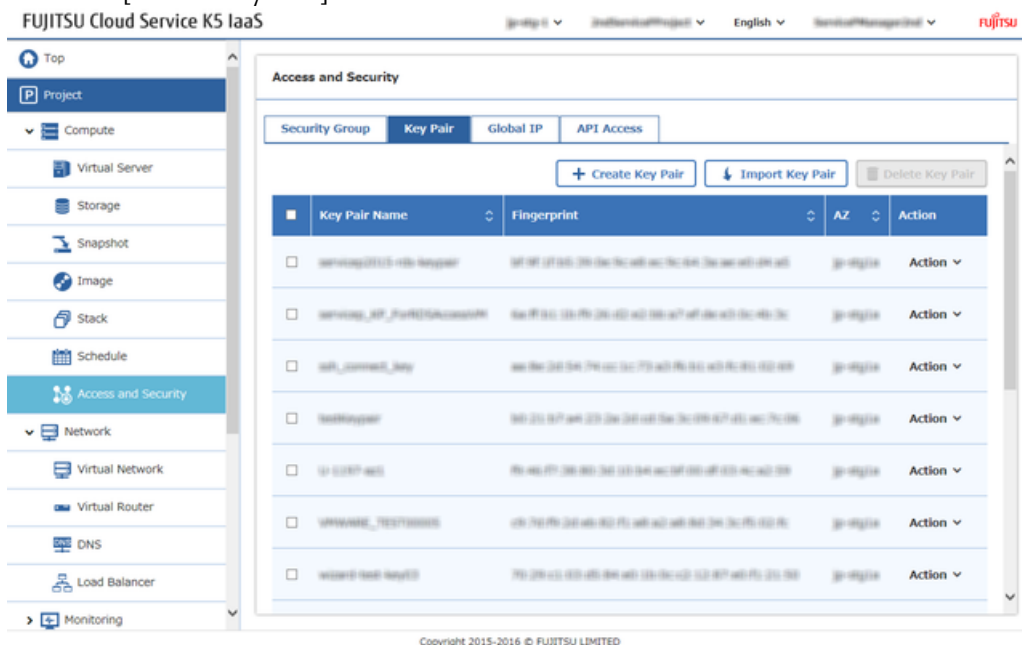
### Procedure

1. From the left-hand menu, click on [Compute] > [Access and Security].

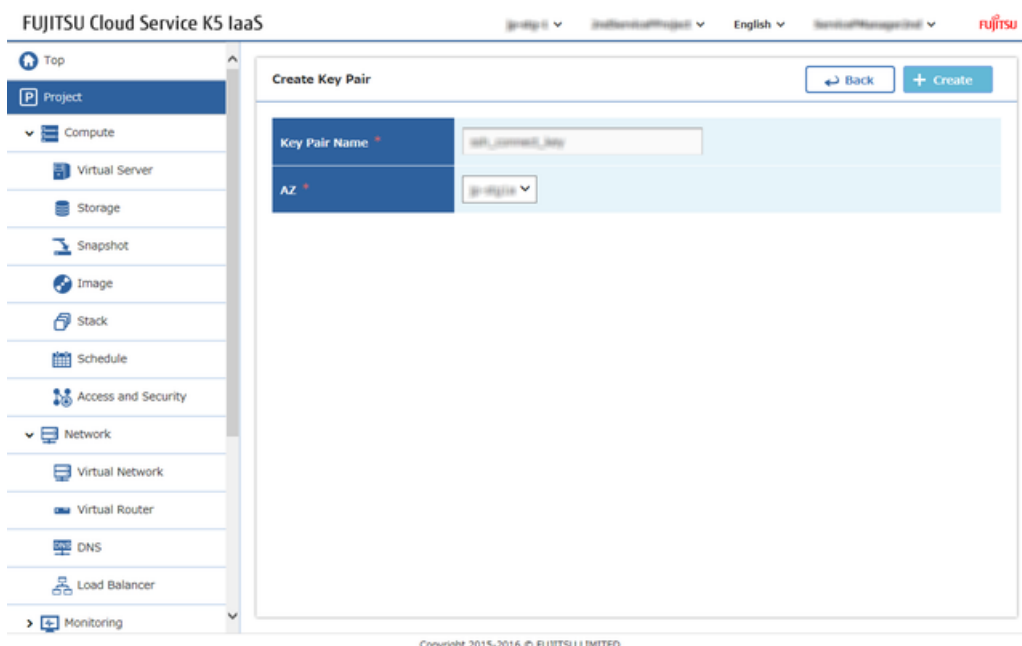


The [Access and Security] screen will be displayed.

2. On the [Access and Security] screen, click on the [Key Pair] tab.
3. Click the [Create Key Pair] button.

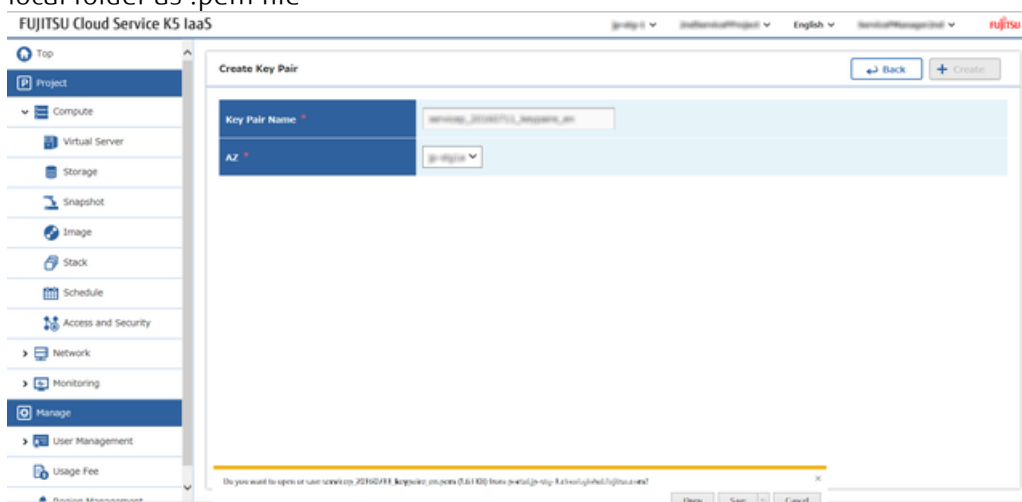


4. From the [Create Key Pair] screen, enter the following items and then click the [Create] button.



Item Name	Description
Key Pair Name	Specify any key pair name
AZ	Select the availability zone in which the key pair will be created

- When the Key file has been downloaded, the save confirmation will be displayed. Save to any local folder as .pem file



Note

In case if the download of the key file fails, it cannot be retrieved again. Please create a new key pair.

## 5.1.6 Acquiring a Global IP Address

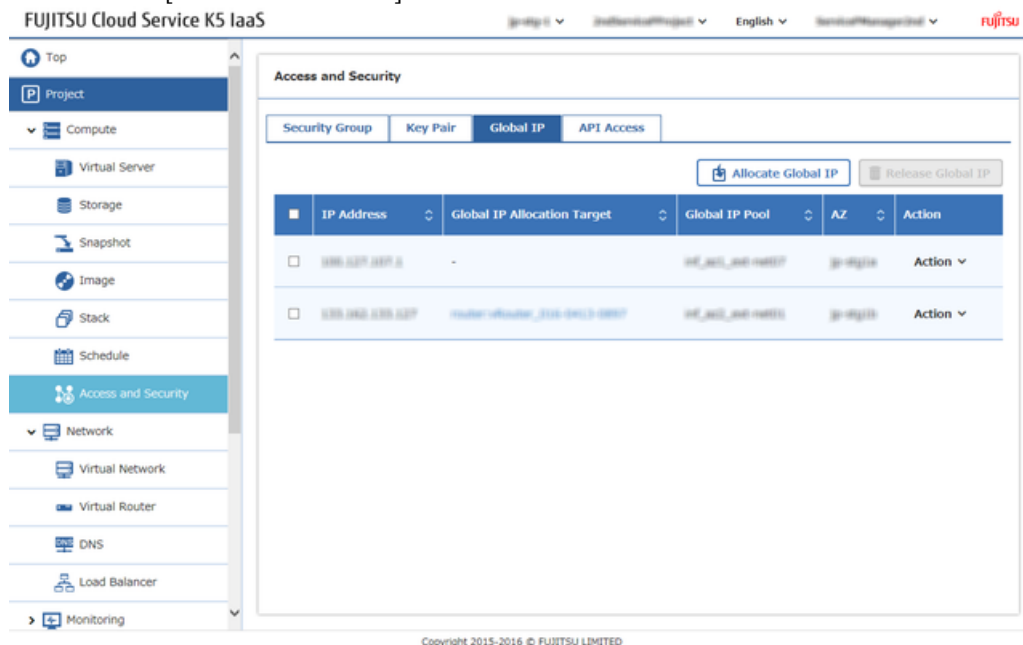
Acquire a global IP address in order to connect to the virtual server via the Internet,

### About this task

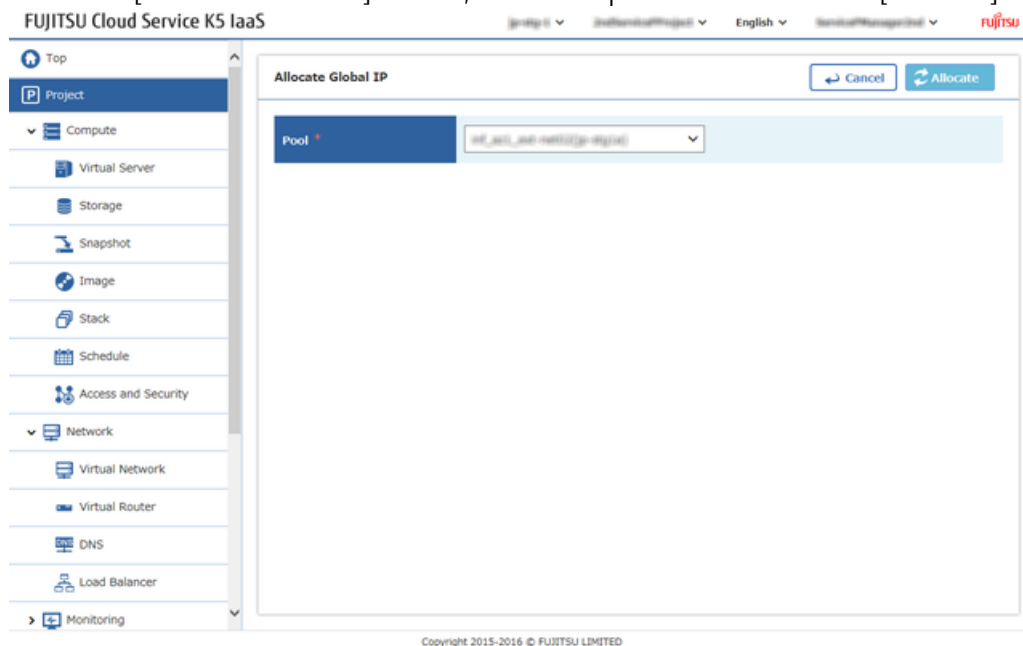
This section describes the procedure of acquiring a global IP address from the IP address pool which is provided by the system.

## Procedure

1. From the left-hand menu, click [Compute] > [Access and Security].  
The [Access and Security] screen will be displayed.
2. From the [Access and Security] screen, click on the [Global IP] tab.
3. Click on the [Allocate Global IP] button.



4. From the [Allocate Global IP] screen, select the pool and click on the [Allocate] button.

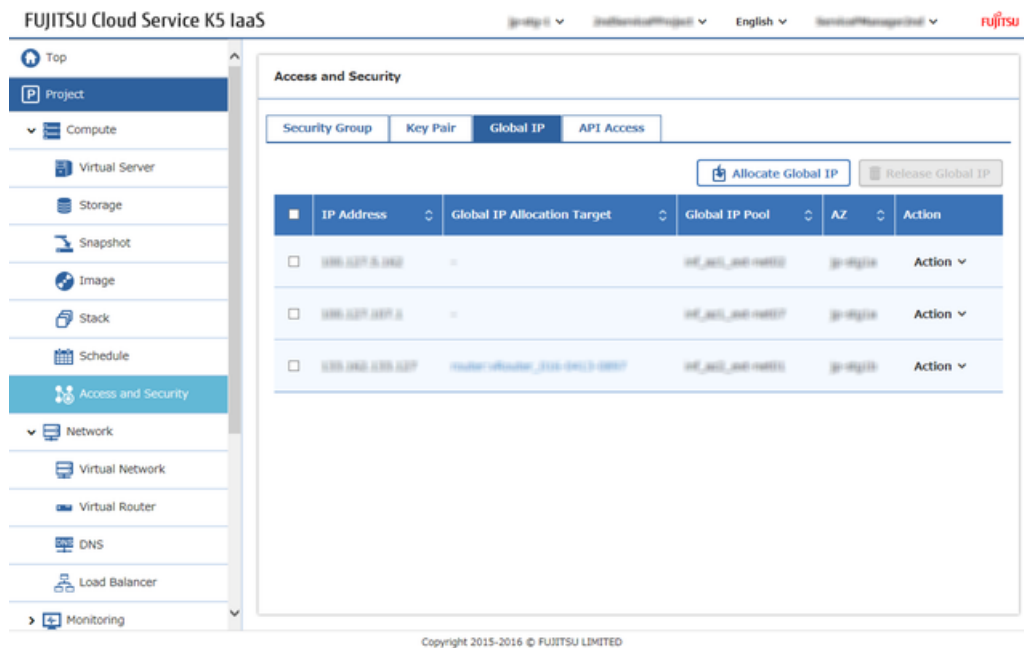


Tip

Select the pool which is applicable to the external network which was connected in [Connecting a Virtual Router to an External Network](#) on page 25.

The procedure is complete when the new IP address has been added to the global IP list given on the [Global IP] tab.





## 5.1.7 Creating a Security Group

Create a security group to limit the unnecessary communication from the Internet and allow only necessary communication.

### About this task

This section describes the procedure of creating a security group for SSH connections.

### Procedure

1. From the left-hand menu, click on [Compute] > [Access and Security].  
The [Access and Security] screen will be displayed.
2. On the [Security Group] tab, click the [Create Security Group] button.
3. On the [Create Security Group] screen, enter the following settings items and then click on the [Create] button.

Item Name	Description
Security Group Name	Specify any security group name
Description	Specify a description for the security group which is to be created.

The procedure is complete once the created security group has been added on the [Security Group] List screen.

## 5.1.8 Setting Rules for a Security Group

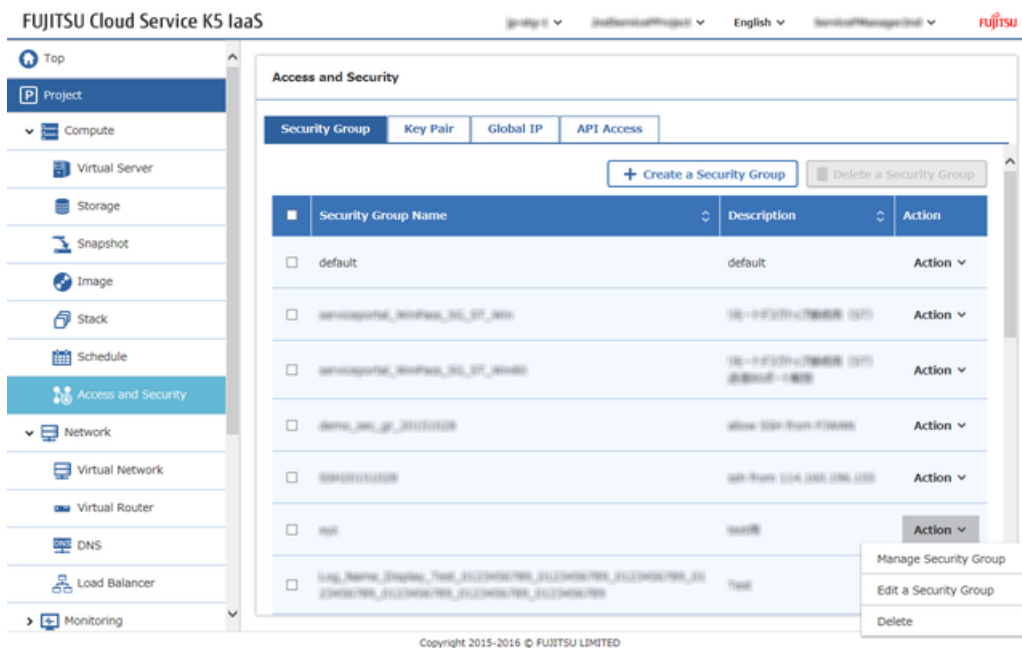
### About this task

At the time of security group creation, security default rules are set automatically. Set rules in order to make necessary communication.

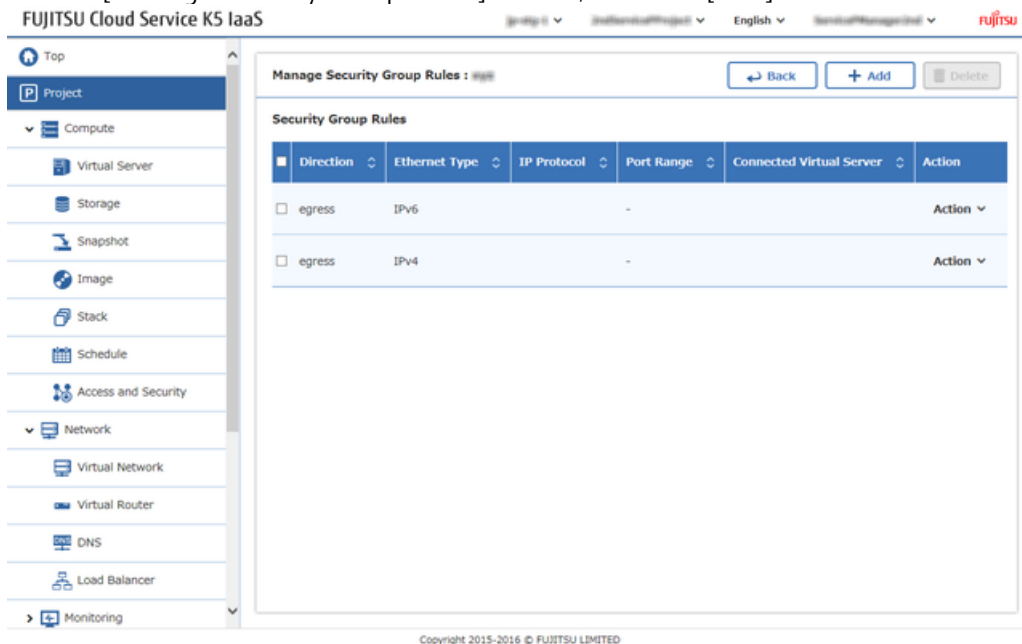
This section describes the procedure of creating a rule used for SSH connections.

### Procedure

1. From the left-hand menu, click on [Compute] > [Access and Security].  
The [Access and Security] screen will be displayed.
2. From the [Security Group] tab, click [Manage Security Group] on the [Action] menu which is intended for setting of the security group.



3. On the [Manage Security Group Rules] screen, click the [Add] button.



4. On the [Add Rule] screen, enter the following additional items of the receiver rules and then click the [Add] button.

**FUJITSU Cloud Service K5 IaaS**

Project: [Project Name] | English | Service: [Service Name]

**Add Rule**

Rule: Custom TCP Rule

Direction: Reception

Open Port: Port

Port: 22

Connected Virtual Server: CIDR

CIDR: 192.168.1.0/24

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Item Name	Description
Rule	Select [Custom TCP Rule]
Direction	Select [Reception]
Open Port	Select [Port]
Port	Specify "22"
Connected Virtual Server	Select [CIDR]
CIDR	Specify the IP address of the client PC for communication.

5. Also enter the following additional items of the sender rules and add them by repeating step 3 though step 4.

Item Name	Description
Rule	Select [Custom TCP Rule]
Direction	Select [Send]
Open Port	Select [Port]
Port	Specify "22"
Connected to	Select [CIDR]
CIDR	Specify the IP address of the client PC for communication.

The procedure is complete once the created rules have been added to the [Manage Security Group Rules] screen.

## 5.2 Creating a Virtual Server

### 5.2.1 Creating a Virtual Server

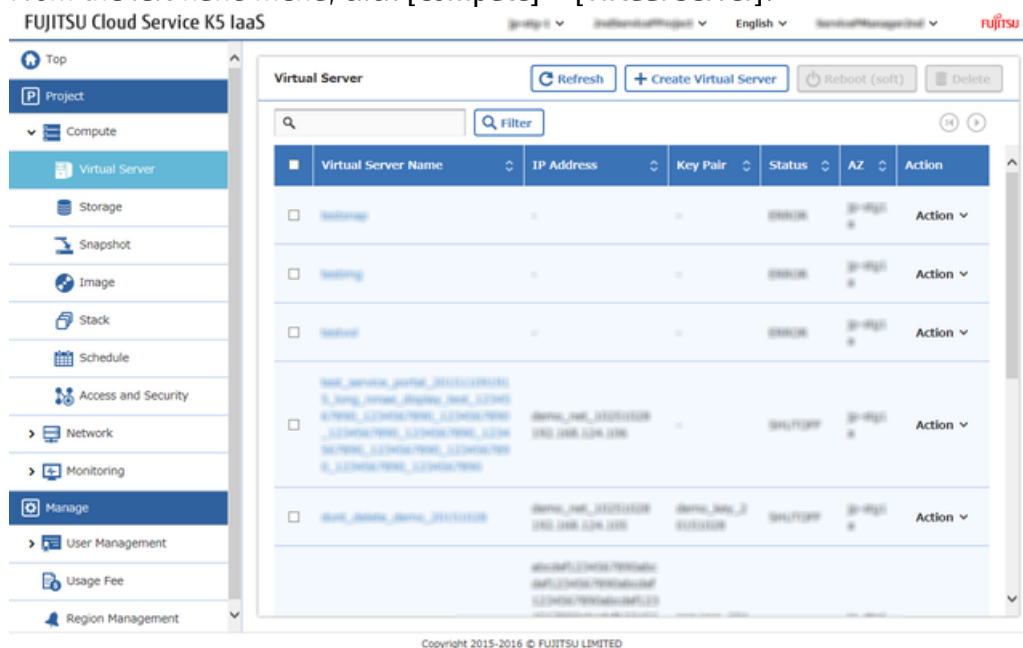
Create a virtual server.

#### About this task

This section explains the procedure of creating a new virtual server using a CentOS image.

#### Procedure


1. From the left-hand menu, click [Compute] > [Virtual Server].



The [Virtual Server] list screen will be displayed.

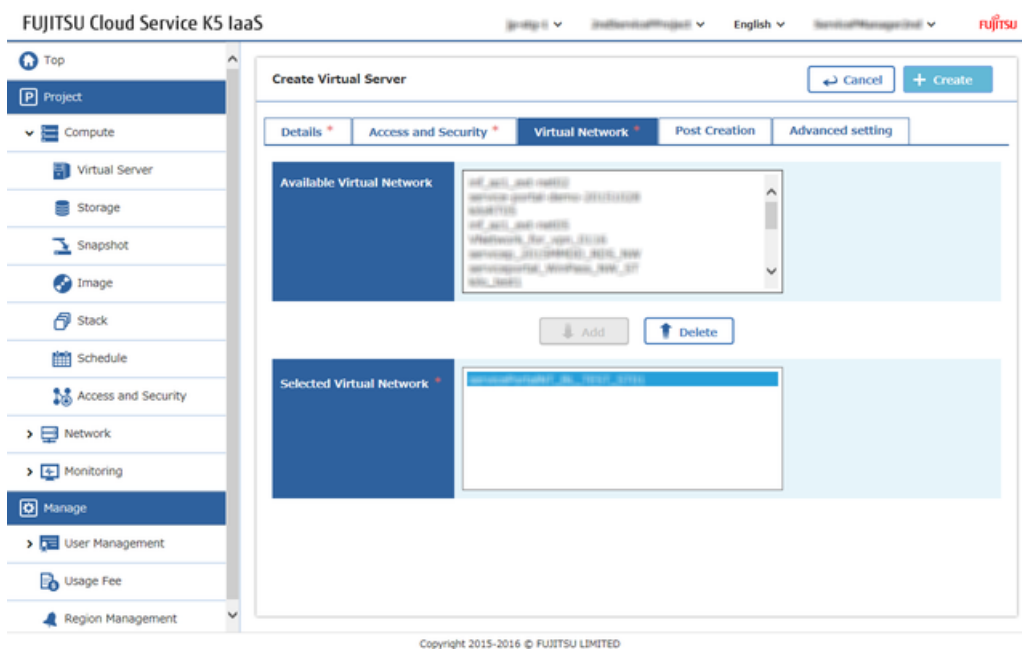
2. From the [Virtual Server] list screen, click the [Create Virtual Server] button.
3. From [Creating virtual server] screen, enter the following setting item on each tab [Details] tab



Item Name	Description
Key Pair	Select the key pair name that was created in <a href="#">Creating a Key Pair</a> on page 30
Security Group	Check the security group name that was created in <a href="#">Creating a Security Group</a> on page 34
	 Clear the [default] check box. <b>Tip</b>

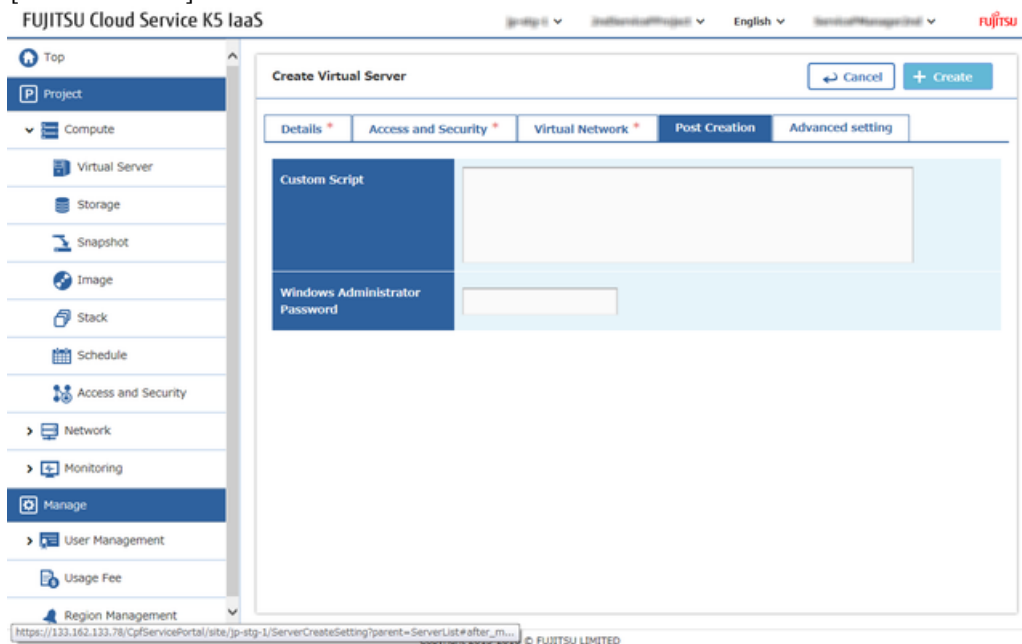
## [Network] tab

Select the virtual network that was created in [Creating a Network and Subnet](#) on page 26 from the [Available Virtual Network] column, and then click the [Add] button.



The screenshot shows the 'Create Virtual Server' page in the FUJITSU Cloud Service K5 IaaS console. The left sidebar contains navigation links for Top, Project, Compute, Storage, Snapshot, Image, Stack, Schedule, Access and Security, Network, Monitoring, Manage, User Management, Usage Fee, and Region Management. The main content area has tabs for Details, Access and Security, Virtual Network, Post Creation, and Advanced setting. The 'Virtual Network' tab is active, showing a list of 'Available Virtual Network' and a 'Selected Virtual Network' section. The 'Add' button is visible below the available list.

## [Post Creation] tab



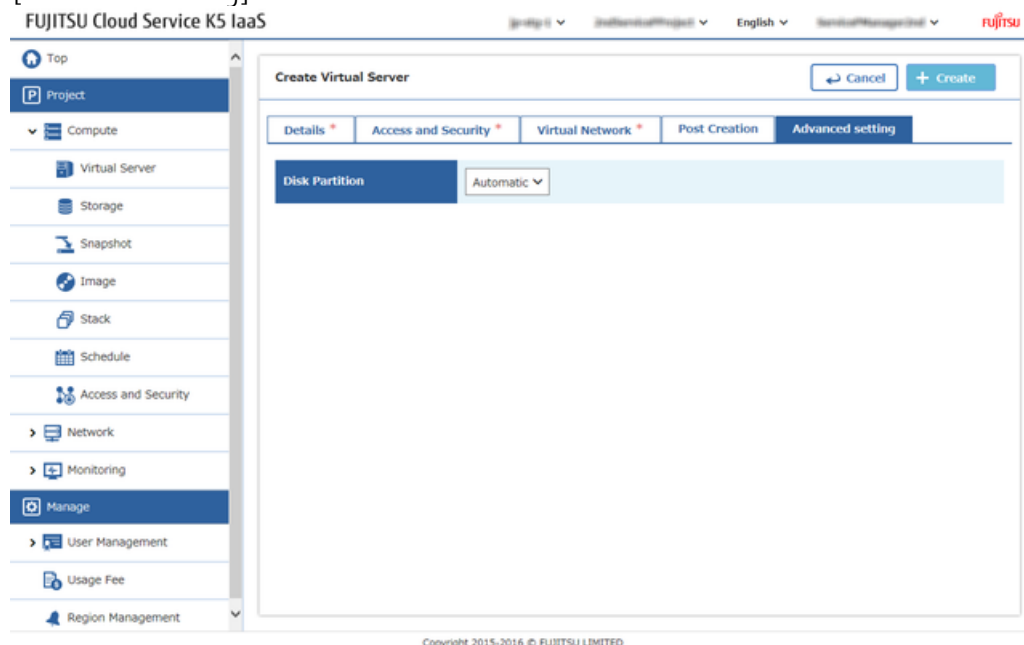
The screenshot shows the 'Create Virtual Server' page in the FUJITSU Cloud Service K5 IaaS console, with the 'Post Creation' tab active. The 'Custom Script' field is empty. The 'Windows Administrator Password' field is also empty. The 'Add' button is visible below the available list.



Leave the Windows Administrator password as blank.

Tip

[Advanced setting] tab



Item Name	Description
Disk Partition	Select [Automatic]

4. Once information entering is completed in each tab, click on the [Create] button.

5. The procedure is complete once the created server has been added to the [Virtual Server] list screen.



Tip

The status is [BUILD] immediately after creation. Refresh the screen after a brief period of time. If the status is [ACTIVE], starting of the virtual server is complete.

## 5.2.2 Assigning a Global IP to the Virtual Server

Assign a global IP address to a running virtual server in order to connect to the internet .

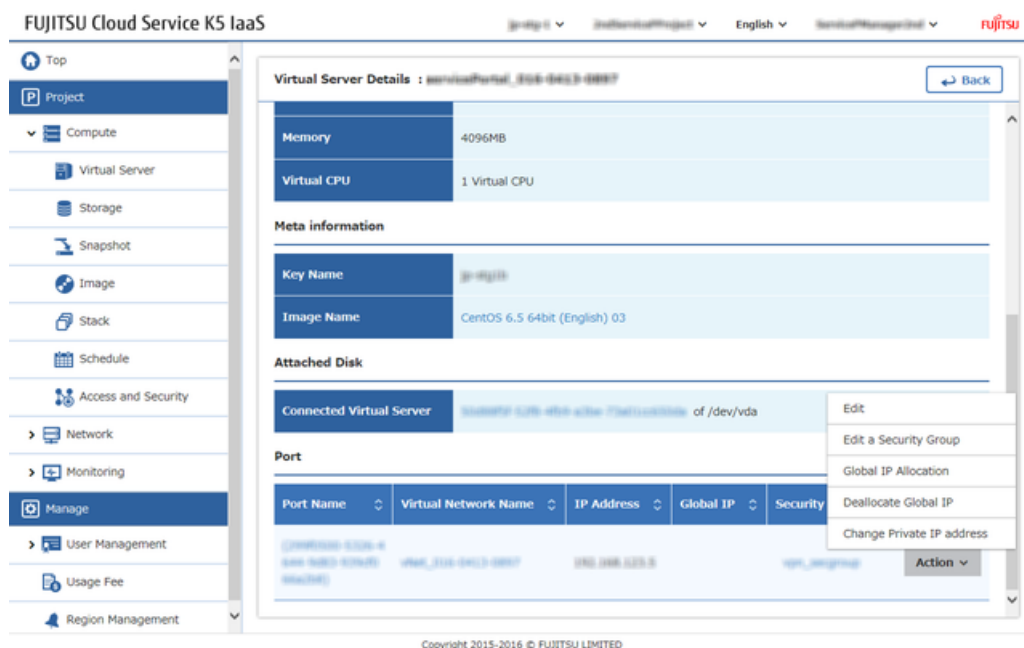
### About this task

This section describes the procedure of assigning a global IP address to the virtual server which was created in [Creating a Virtual Server](#) on page 38.

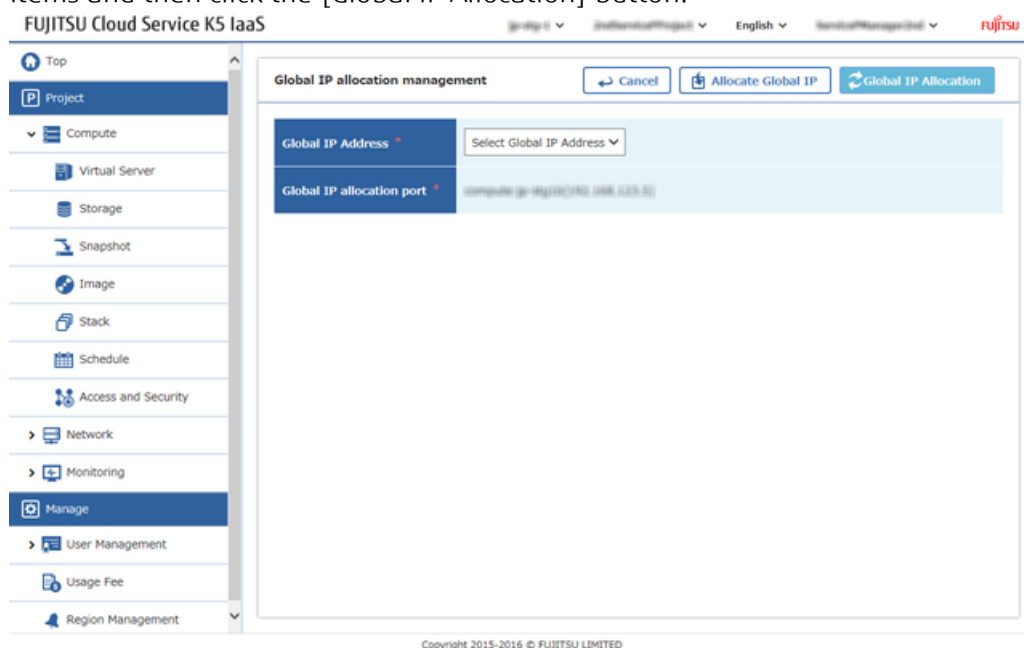
### Procedure

1. From the left-hand menu, click [Compute] > [Virtual Server].  
The [Virtual Server] list screen will be displayed.
2. Click on [Global IP Allocation] from the [Action] menu of the virtual server, to which you want to assign the global IP address.





- From the [IP Address] tab of the [Global IP allocation management] screen, set the following items and then click the [Global IP Allocation] button.



Item Name	Description
Global IP Address	Select the IP address which was acquired in <a href="#">Acquiring a Global IP Address</a> on page 32
Global IP allocation port	Do not change the default selection

- Procedure is completed once, the global IP address is added to the [Virtual Server] list screen, in the [IP address] column of the Virtual server row to which the IP address was assigned. .

## 5.3 Creating a Load Balancer

### 5.3.1 Creating a Security Group for the Load Balancer

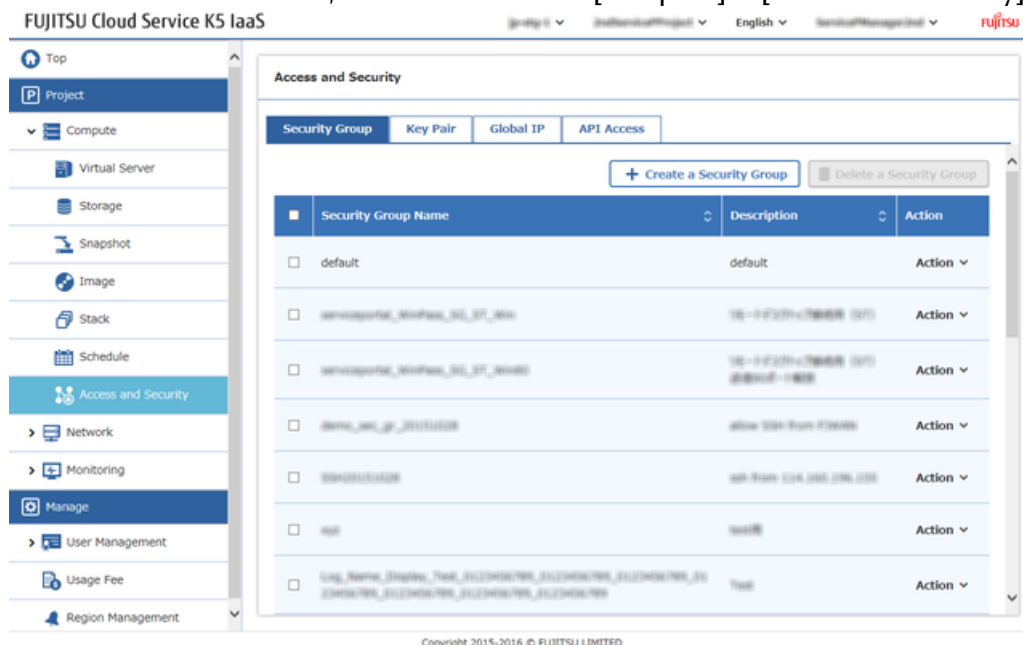
Create a security group in order to protect the load balancer from an unauthorised communication which can be accessed from the Internet.

#### About this task

While creating the load balancer, create the security group beforehand. The creation procedure is as shown below.

#### Procedure

1. From the left-hand menu, click in the order of [Compute] > [Access and Security].



The [Access and Security] screen will be displayed.

2. On the [Access and Security] screen, click on the [Create a Security Group] button.
3. On the [Create a Security Group] screen, enter the following settings items and then click the [Create] button.

The screenshot shows the 'Create a Security Group' interface in the Fujitsu Cloud Service K5 IaaS console. The left-hand navigation pane is expanded, showing the 'Access and Security' section. The main content area contains a form with two required fields: 'Security Group Name' (filled with 'sg\_test\_group') and 'Description' (filled with 'for test test'). At the top right of the form are 'Cancel' and 'Create' buttons. The bottom of the page displays the copyright notice 'Copyright 2015-2016 © FUJITSU LIMITED'.

Item Name	Description
Security Group Name	Specify any security group name
Description	Specify a description for the security group to be created

The procedure is complete once the created security group has been added to the [Security Group List] screen.

## 5.3.2 Creating a Security Group Rule for the Load Balancer

Create a rule, for the security group which was created for the load balancer.

### About this task

Create a rule that allows the following type of communication for the security group which was created in [Creating a Security Group for the Load Balancer](#) on page 43:

- HTTP

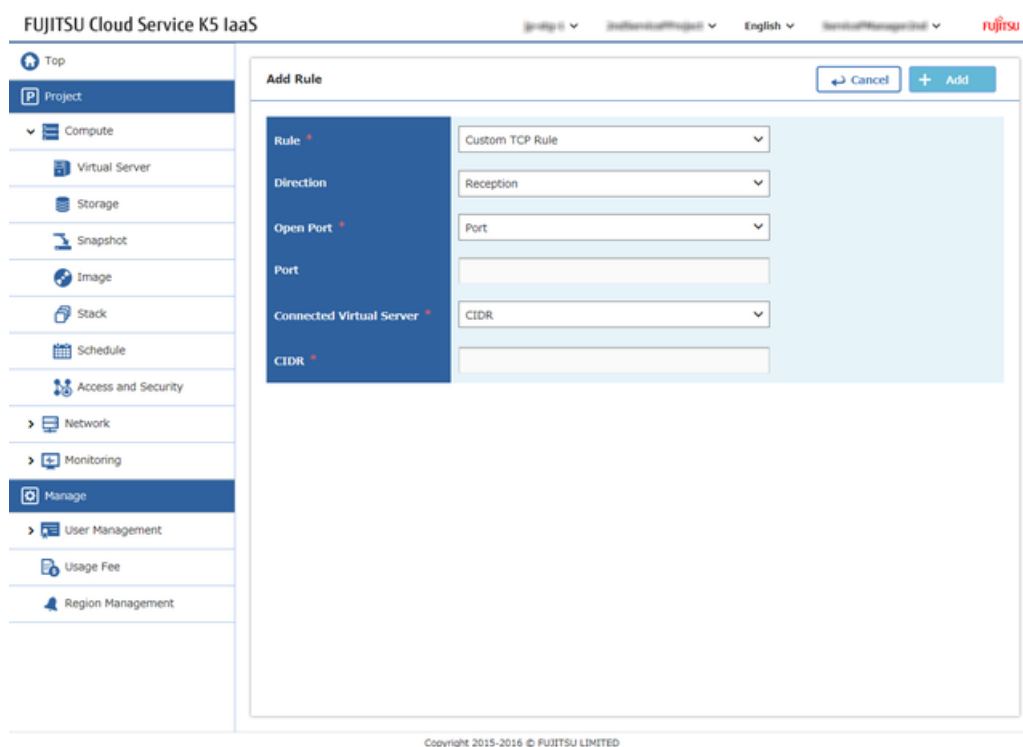
### Procedure

1. From the left-hand menu, click [Compute] > [Access and Security].  
The [Access and Security] screen will be displayed.
2. On the [Access and Security] screen, click on the [Action] menu for the intended security group, and then click [Manage Security Group].


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4. On the [Add Rule] screen, enter the following settings and then click the [Add] button.

Item Name	Description
Rule	Select [Custom TCP Rule]
Direction	Select [Reception]
Open Port	Select [Port]
Port	Specify "80"
Connected to	Select [CIDR]
CIDR	xxx.xxx.xxx.0/24  Limit the allowed range (source address) as per requirement

The procedure is complete once the configured settings have been added to the [Security Group Rules] Administration screen.

## 5.3.3 Creating a Load Balancer

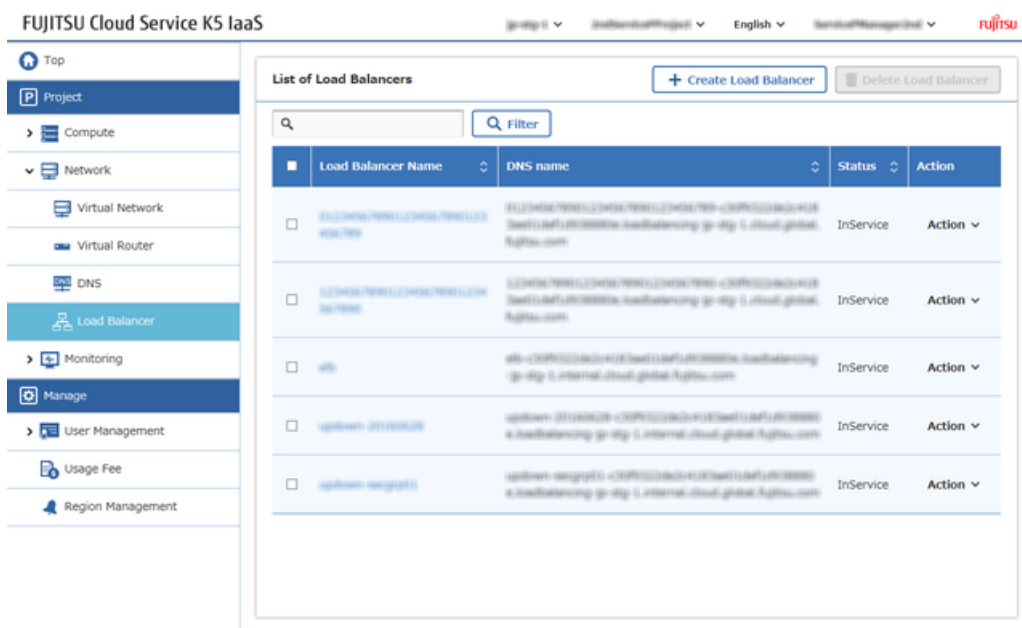
Deploy Load balancer in order to handle by using auto scale, in the case of excessive Access or to increase the availability usage in Availability Zone.

### About this task

This section describes the procedure to create a load balancer and deploy it for use with the virtual servers that were created in [Creating a Virtual Server](#) on page 38. In this example, the protocol for distribution is HTTP.

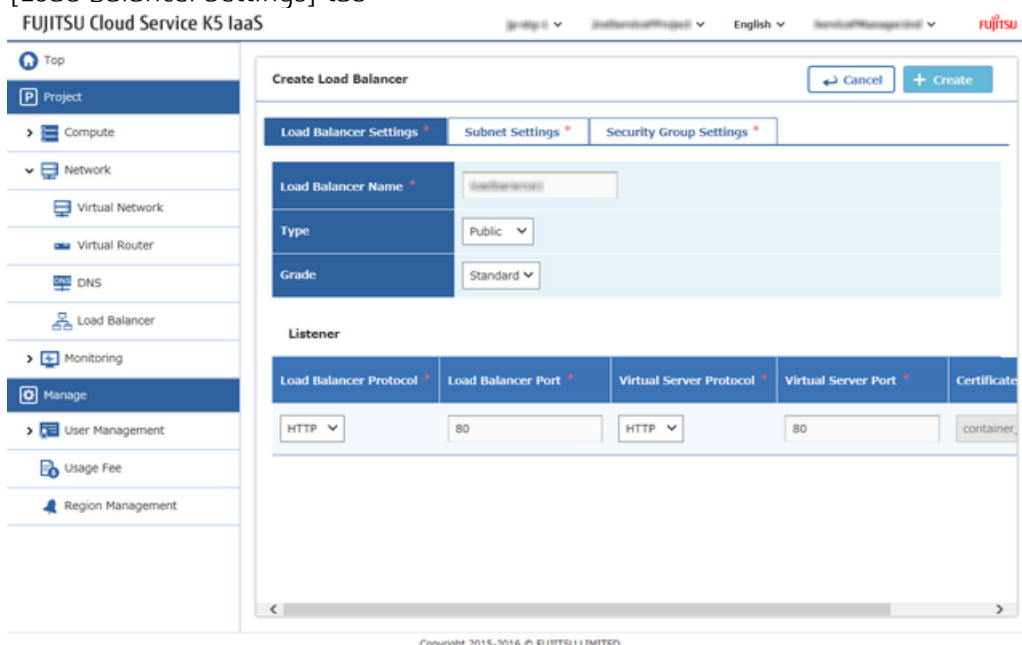
### Procedure


1. From the left-hand menu, click [Network] > [Load Balancer].



The [List of Load Balancer] screen will be displayed.

2. Click the [Create Load Balancer] button on the [List of Load Balancer] screen.
3. On each tab of the [Create Load Balancer] screen, set the following items.  
[Load Balancer Settings] tab



Item Name	Description
Load Balancer Name	Specify a load balancer name
Type	Select [Public] <div>  <b>Note</b> When the [Public] type creation is completed, it can be referred on the internet . </div>

Item Name	Description
Grade	Select [Standard]

Table 3: [Listener] Section

Item Name	Description
Load Balancer Protocol	Select [HTTP]
Load Balancer Port	Specify "80"
Virtual Server Protocol	Select [HTTP]
Virtual Server Port	Specify "80"
Certificate	Do not set

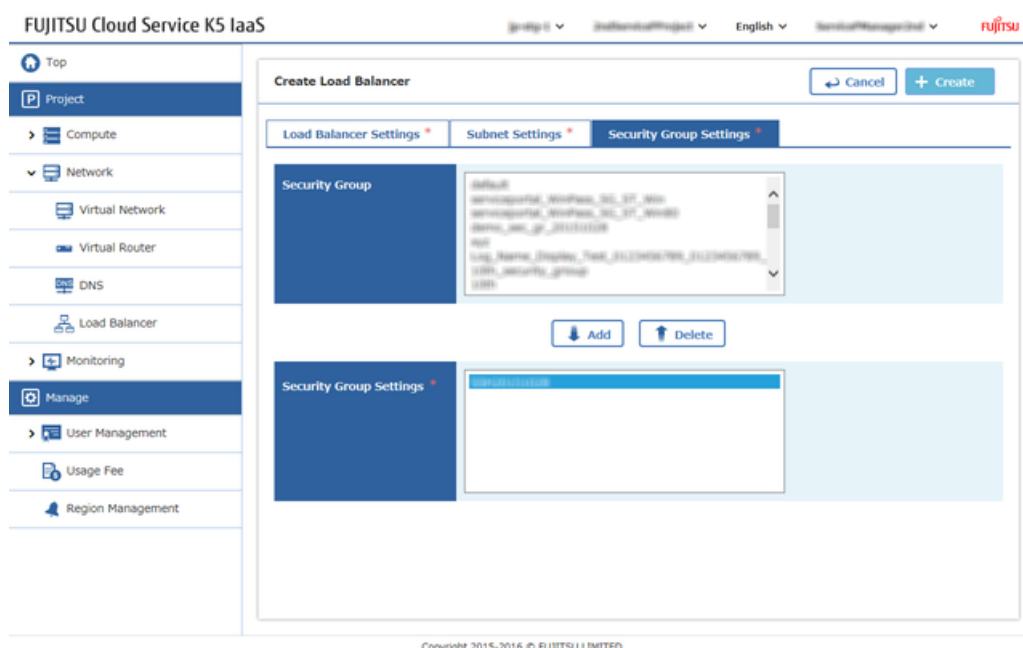
[Subnet Settings] tab

Select the subnet in order to deploy the load balancer from the [Subnet] column, and then click the [Add] button.

The screenshot shows the 'Create Load Balancer' page in the FUJITSU Cloud Service K5 IaaS console. The left sidebar contains navigation links for Top, Project, Compute, Network, Virtual Network, Virtual Router, DNS, Load Balancer, Monitoring, Manage, User Management, Usage Fee, and Region Management. The main panel has three tabs: 'Load Balancer Settings', 'Subnet Settings' (which is selected), and 'Security Group Settings'. Under the 'Subnet Settings' tab, there is a 'Subnet' section with a list of available subnets. Below this list are 'Add' and 'Delete' buttons. At the bottom, there is a 'Selected Subnet' section with a dropdown menu showing 'subnet-101' as the selected option. The top of the page includes the 'FUJITSU Cloud Service K5 IaaS' header, user information, and language settings.

[Security Group Settings] tab

Select the security group which was created in [Creating a Security Group for the Load Balancer](#) on page 43 from the [Security Group] column, and then click the [Add] button.



4. When the entering the information is completed in each tab, click the [Create] button.  
The procedure is complete once when the created load balancer has been added on the [List of Load Balancer] screen.

## 5.3.4 Enabling the Health Check Function of the Load Balancer

Health check can be carried out for the virtual servers in which the load is distributed by the load balancer.

### About this task

This section describes the procedure for enabling the health check function for the load balancer that was created in [Creating a Load Balancer](#) on page 46.

### Procedure

1. From the left-hand menu, click [Network] > [Load Balancer].  
The [List of Load Balancer] screen will be displayed.
2. On the [List of Load Balancer] screen, click [Health Check Information Setting] on the [Action] menu for the intended load balancer.
3. Set the following items on the [Health Check Information Settings] screen, and then click the [Setting] button.



The screenshot shows the 'Health Check Information Settings' dialog in the FUJITSU Cloud Service K5 IaaS console. The left sidebar contains navigation links: Top, Project, Compute, Network (Virtual Network, Virtual Router, DNS, Load Balancer), Monitoring, Manage (User Management, Usage Fee, Region Management). The main area displays the following settings:

Setting Name	Value
Threshold of Health check Successes to be Considered as Healthy *	2
Health Check Execution Interval (s) *	10
Protocol *	HTTP
Port *	80
URL	http://www.abc.co.jp/
Health Check Timeout Period (s) *	3
Threshold of Health check Fails to be Considered Unhealthy *	2

Buttons: Cancel, Setting

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Item Name	Description
Threshold of health check Successes to be Considered as Healthy	Specify "2"
Health Check Execution Interval (s)	Specify "10"
Protocol	Select [HTTP]
Port	Specify "80"
URL	Specify the URL of the landing page of Apache that is installed in the virtual server
Health Check Timeout Period (s)	Specify "3"
Threshold of Health check Fails to be Considered Unhealthy	Specify "2"

- Click the appropriate load balancer name on the [List of Load Balancer] screen.
- The procedure is complete once the configured settings are displayed on the [Health Check Information] tab of the [Load Balancer Details] screen.

## 5.3.5 Adding a Virtual Server to which the Workload is Distributed by the Load Balancer

After you have finished configuring the settings of the security group, the distribution protocol, and the health check function for the load balancer, add the virtual servers which require workload distribution..

### Before you begin

Create two or more virtual servers by following the steps in [Creating a Virtual Server](#) on page 38.

### About this task

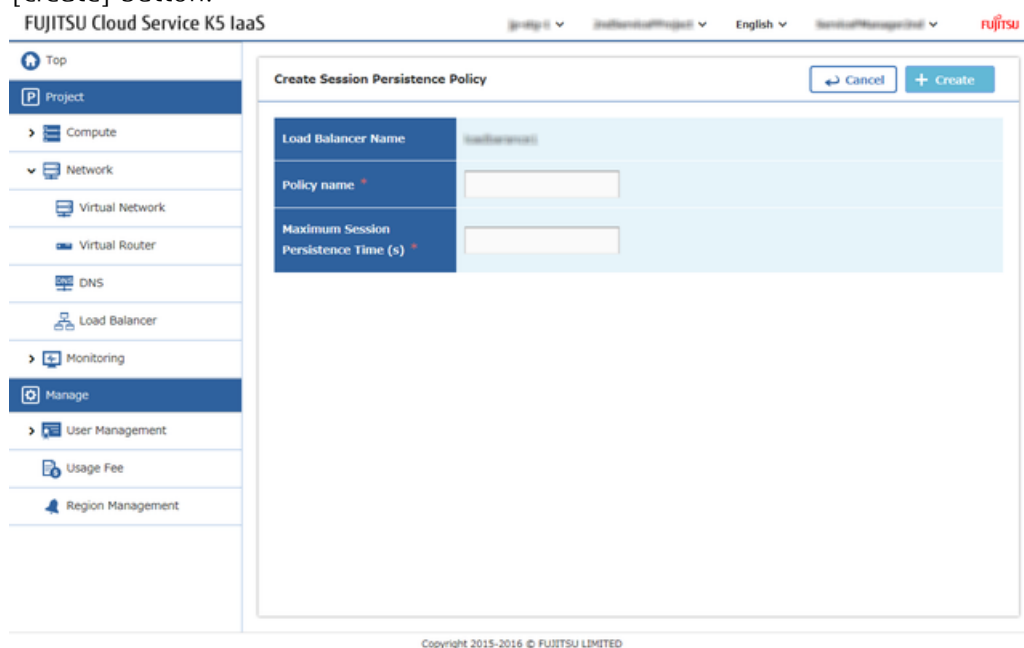
This section describes the procedure for adding multiple virtual servers to a single load balancer. It also describes the procedure for configuring the settings related to session maintenance.

## Procedure

1. From the left-hand menu, click [Network] > [Load Balancer].  
The [List of Load Balancer] screen appears.
2. On the [List of Load Balancer] screen, click [Add Virtual Server] on the [Action] menu for the intended load balancer.
3. On the [Add Virtual Server] screen, select and check mark all the virtual servers which require workload distribution, and then click the [Add] button.



4. Return to the [List of Load Balancer] screen, and click [Create Session Maintenance Policy] from the [Action] menu.
5. Set the following items on the [Create Session Maintenance Policy] screen, and then click the [Create] button.



Item Name	Description
Policy Name	Specify a policy name

Item Name	Description
Maximum Session Persistence Time (s)	Specify "300"

6. Click the appropriate load balancer name on the [List of Load Balancer] list screen.
7. The procedure is complete once the configured settings are displayed on the [Virtual Server Information] tab and on the [Policy Information] tab which are located on the [Load Balancer Details] screen.

## 5.4 Using a Template

### 5.4.1 Creating a Stack and Displaying the Stack Details

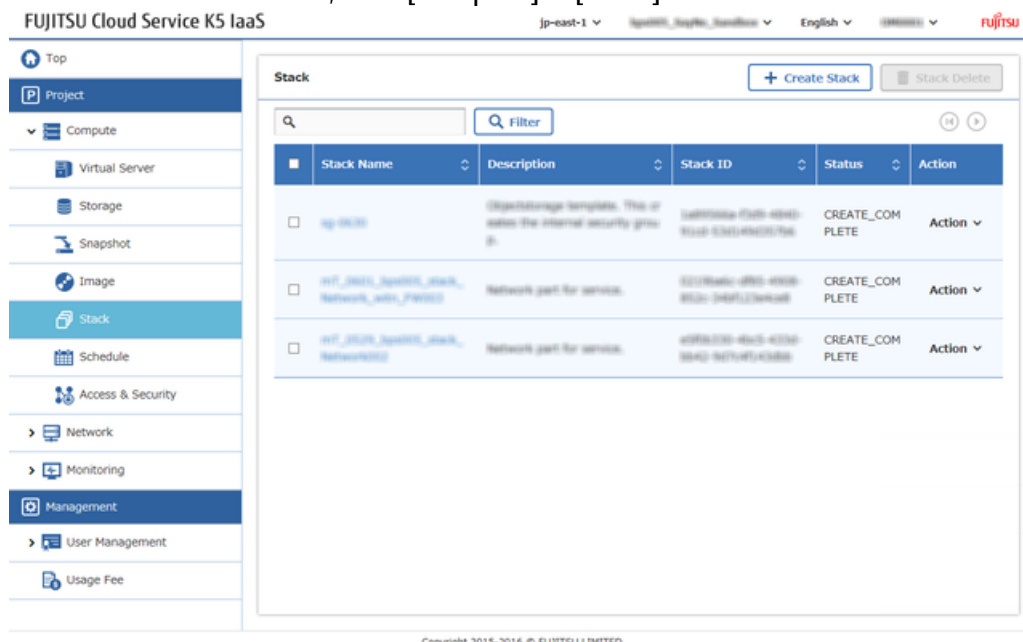
You can deploy virtual resources in bulk by using a template in the YAML format. The set of virtual resources that are deployed using the template can be managed as a stack.

#### About this task

This section describes the procedure for deploying virtual resources in bulk by using a template (text file) in the YAML format.

#### Procedure

1. From the left-hand menu, click [Compute] > [Stack].



The [Stack] list screen will be displayed

2. On the [Stack] list screen, click the [Create Stack] button.
3. On the [Create Stack] screen, enter the following settings items.

FUJITSU Cloud Service K5 IaaS

jp-east-1 | [Language](#) | [English](#) | [Help](#) | [Logout](#)

Top

Project

Compute

Virtual Server

Storage

Snapshot

Image

Stack

Schedule

Access & Security

Network

Monitoring

Management

User Management

Usage Fee

Create Stack

[Cancel](#) [+ Create](#)

Stack Name \*

How to specify a template \*

File \*

Parameters to be passed to the template


Given names	Value	
<input type="text"/>	<input type="text"/>	<a href="#">Delete</a>

[+ Add to](#)

Timeout (minutes) \*

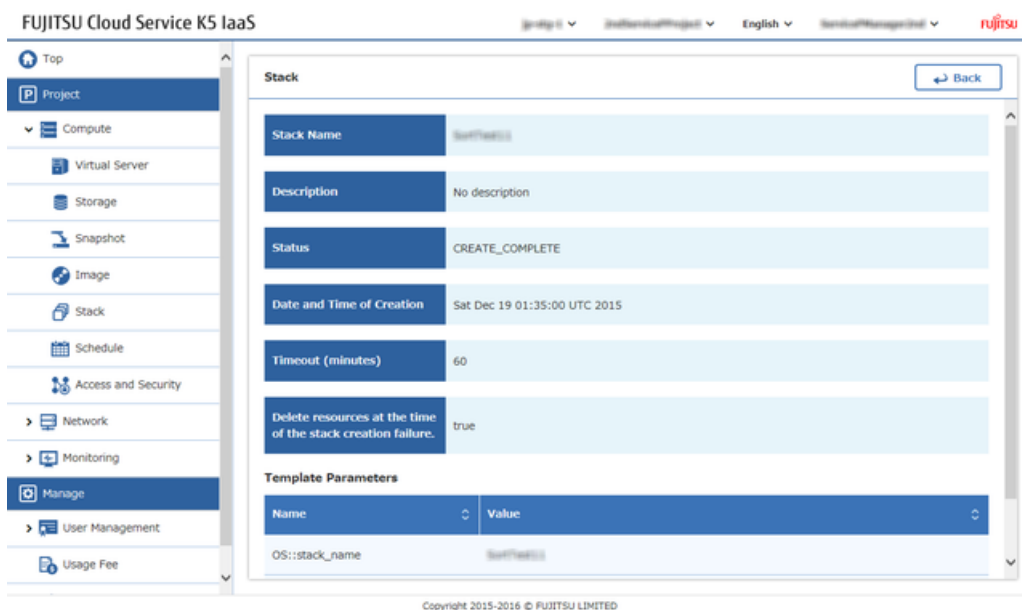
Rollback \*

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Item Name	Description
Stack Name	Specify any stack name
How to specify a template	Select [File]
File	Specify the template file that has been created
Parameters to be passed to the template	Specify the required parameter names and values according to the contents of the template file to be used
Timeout (minutes)	Specify "10"
Rollback	<p>Select [False] to delete the resources for which deployment has failed, in cases when the timeout period elapses and deployment still cannot be carried out</p> <p>.....</p> <p> [True] disables the rollback.</p> <p>Tip</p> <p>.....</p>

The procedure is complete when the created stack is displayed on the [Stack] list screen.

- Click the stack name on the same row as the created stack.



The details screen of the corresponding stack will be displayed.

## 5.4.2 Editing a Stack

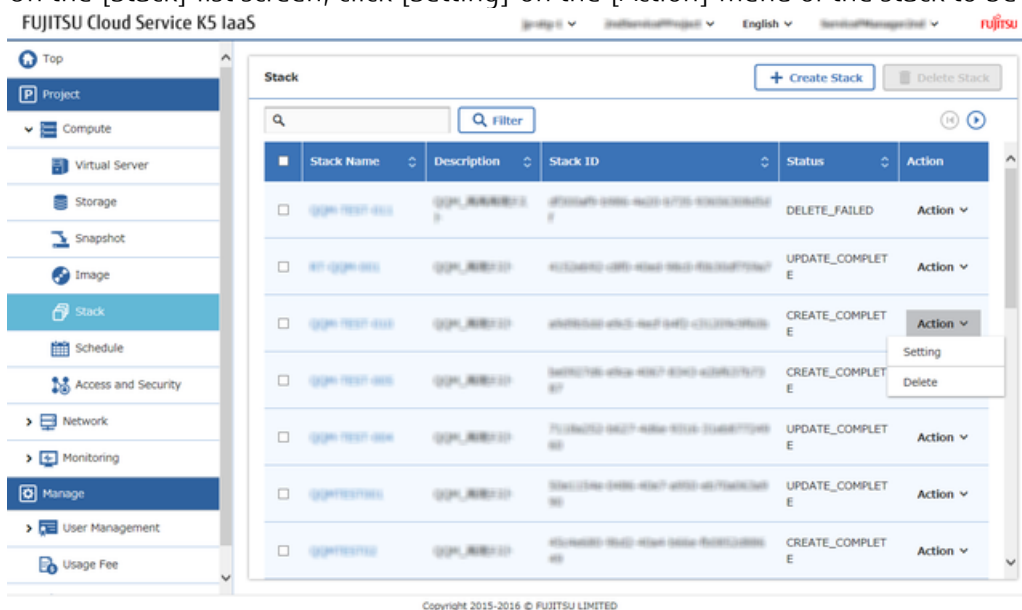
You can edit the deployed stack by using a YAML template whose configuration has been changed.

### About this task

This section describes the procedure for editing the deployed stack by using a YAML template file whose configuration has been changed.

### Procedure

1. From the left-hand menu, click **[Compute]** > **[Stack]**.  
The **[Stack]** list screen will be displayed.
2. On the **[Stack]** list screen, click **[Setting]** on the **[Action]** menu of the stack to be edited.



3. Change the following items on the **[Edit Stack]** screen and then click the **[Update]** button.

FUJITSU Cloud Service K5 IaaS

Project > Compute > Stack

### Edit Stack

Stack Name:

How to Specify Template:

File:

Parameter to be Passed to Template


Name	Value	
dns_nameservers	193.108.100.1, 193.108.100.2	Delete
availability_zone	jp-east-1a	Delete

+ Add

Timeout (minutes):

Cancel Update

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Item Name	Description
How to Specify Template	Select [File]
File	<div>  <p>Click the reference button of the [File] column and specify the template file that has been created.</p> </div>
Parameters to be passed to Template	Specify the required parameter items and values according to the contents of the template file to be used
Timeout (minutes)	Specify "15"

## 5.4.3 Deleting a Stack

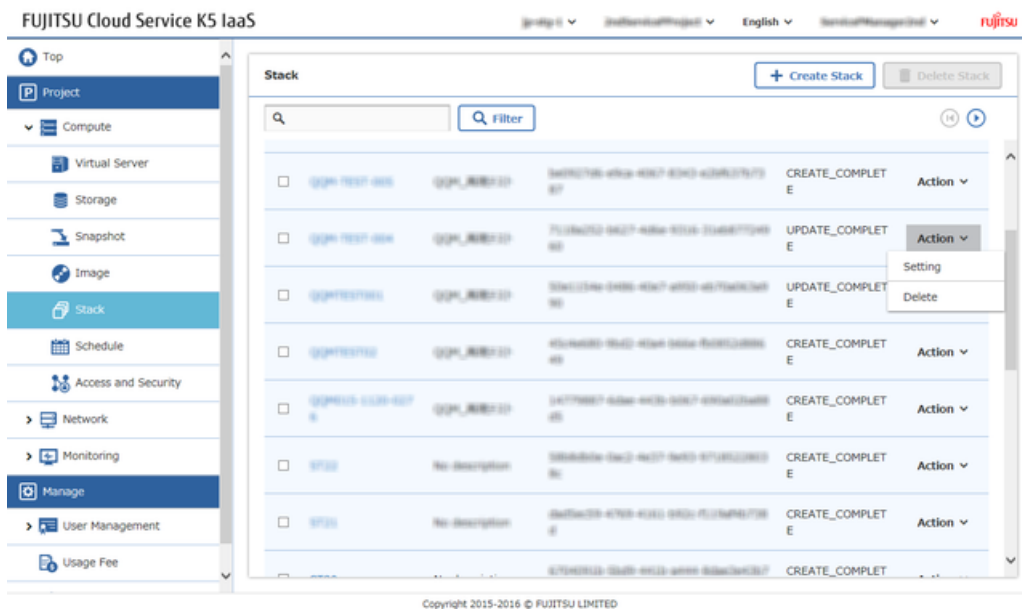
Delete a deployed stack that is no longer required.

### About this task

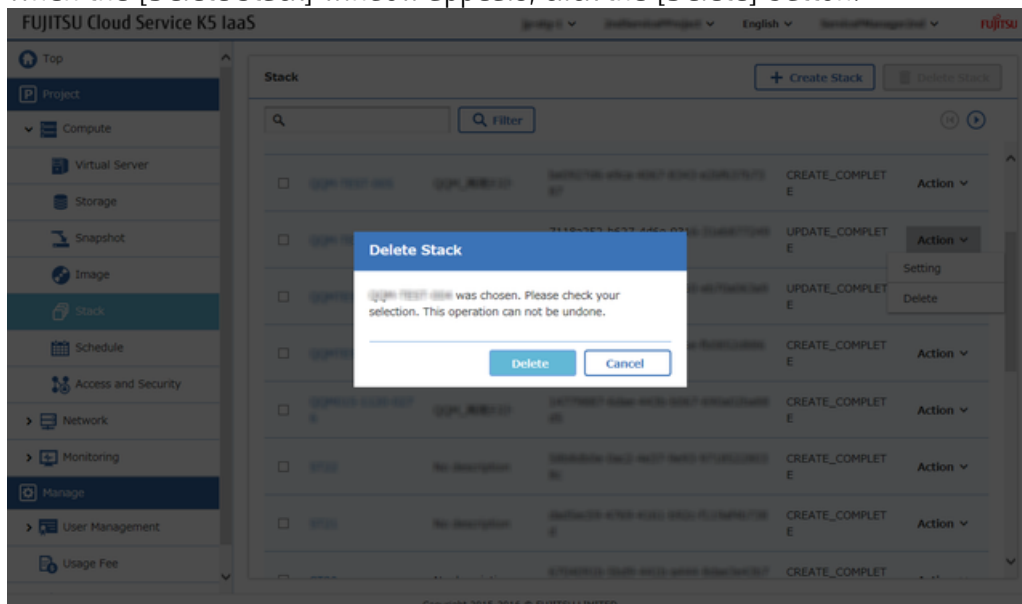
This section describes the procedure for deleting a stack.

### Procedure

- From the left-hand menu, click [Compute] > [Stack].  
The [Stack] list screen will be displayed.
- On the [Stack] list screen, click [Delete] on the [Action] menu for the stack that you want to delete.



3. When the [Delete Stack] window appears, click the [Delete] button.



The procedure is complete once the corresponding operated stack has been deleted from the [Stack] list screen.



Tip It takes some time to complete the deletion. (During the deletion, [DELETE\_IN\_PROGRESS] is displayed.)



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# Part 6: Operating a Virtual System

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Topics:

- [\*Connecting to a Virtual Server\*](#)
- [\*Deleting a Virtual Server\*](#)
- [\*Monitoring Service Basics\*](#)

## 6.1 Connecting to a Virtual Server

### 6.1.1 Logging in to the Virtual Server via SSH

Login to the Virtual server, by connecting through internet with the Global IP address assigned to the virtual server.

#### Before you begin

Install an SSH client such as TeraTerm on the PC.

#### About this task

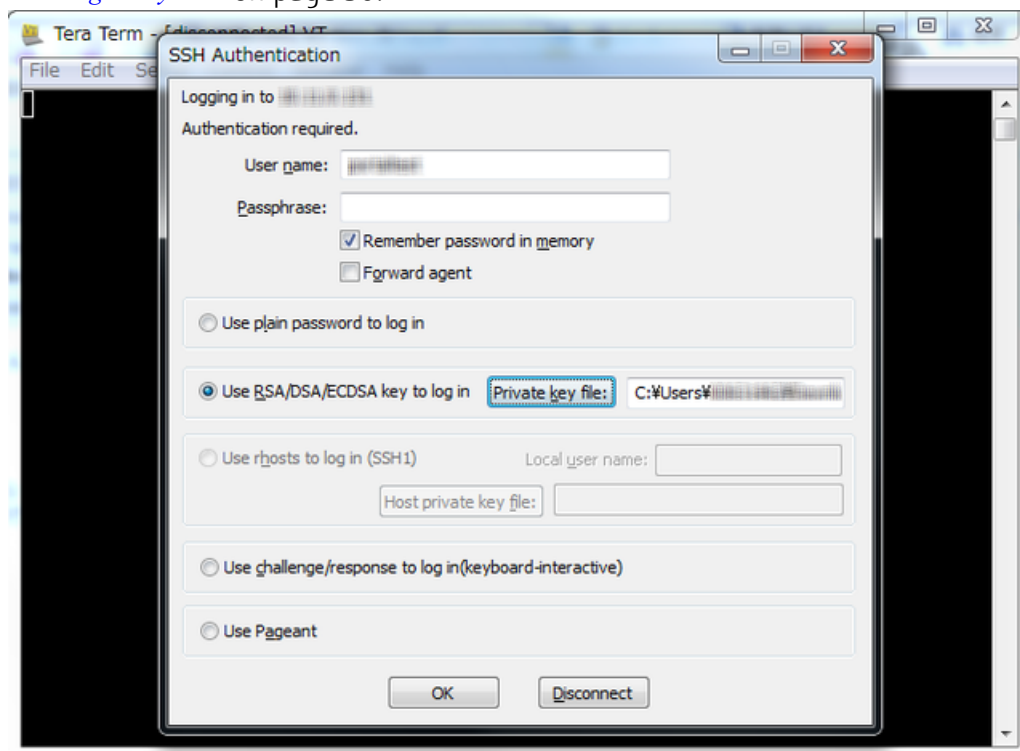
Connect via SSH to the global IP address that was assigned to the virtual server in [Assigning a Global IP to the Virtual Server](#) on page 41. This section describes the procedure of connecting to Linux Virtual Server.

#### Procedure

1. Connect to the global IP address to SSH, by using the SSH client.
2. Undergo the authentication process in order to login to the virtual server.

- Authentication Using Key Pair

When the authentication window appears, specify the ID that was entered in the [Post Creation] tab in [Creating a Virtual Server](#) on page 38 and the key file that was created in [Creating a Key Pair](#) on page 30.



#### Results

When the authentication information is correct, the prompt will be displayed.

## 6.2 Deleting a Virtual Server

### 6.2.1 Deleting a Virtual Server

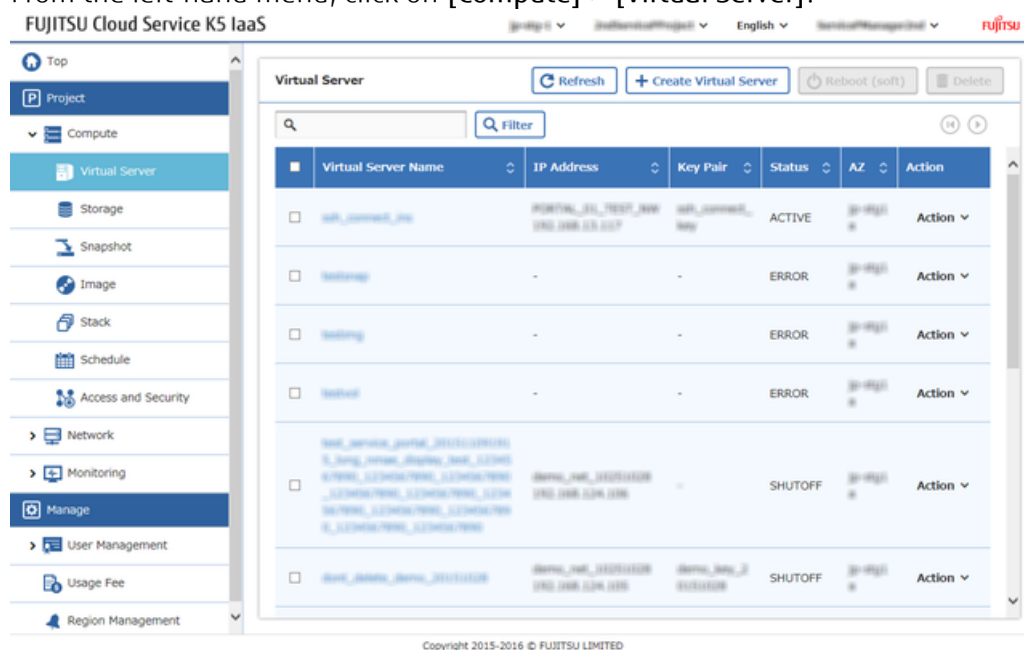
Delete a deployed virtual server.

#### About this task

This section describes the procedure for deleting a virtual server.

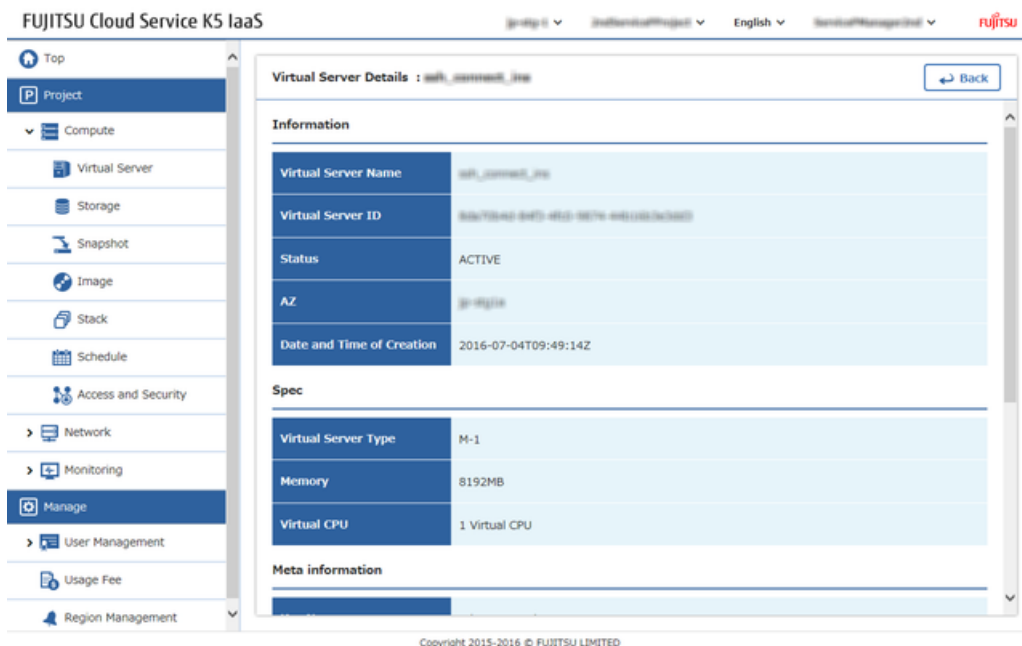
#### Procedure

1. From the left-hand menu, click on [Compute] > [Virtual Server].



The [Virtual Server] list screen will be displayed.

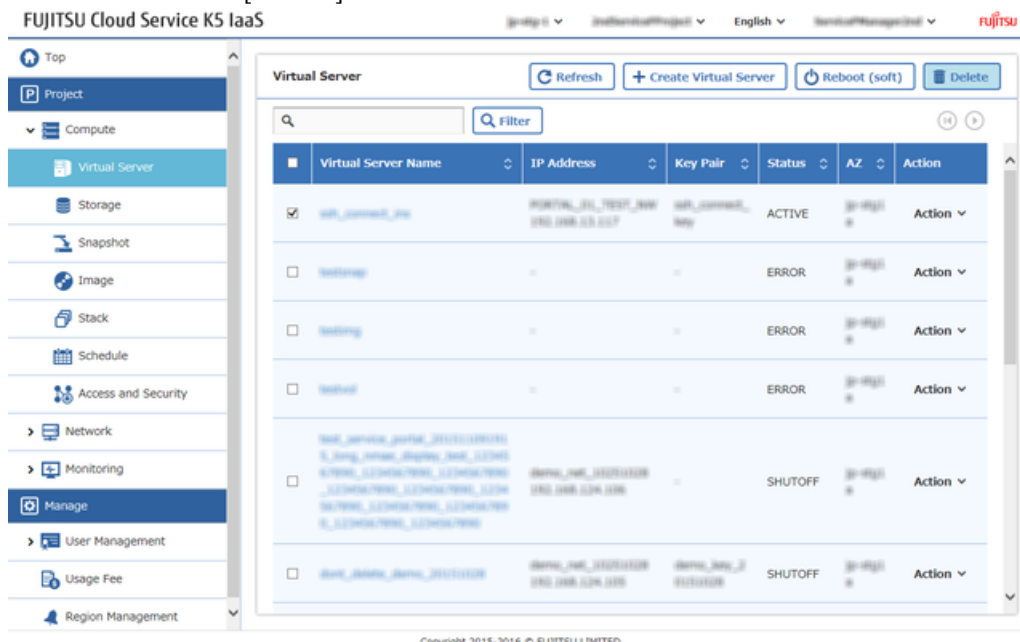
2. On the [Virtual Server] list screen, click the name of the virtual server machine which needs deletion and [Virtual Server Details] screen will be displayed.



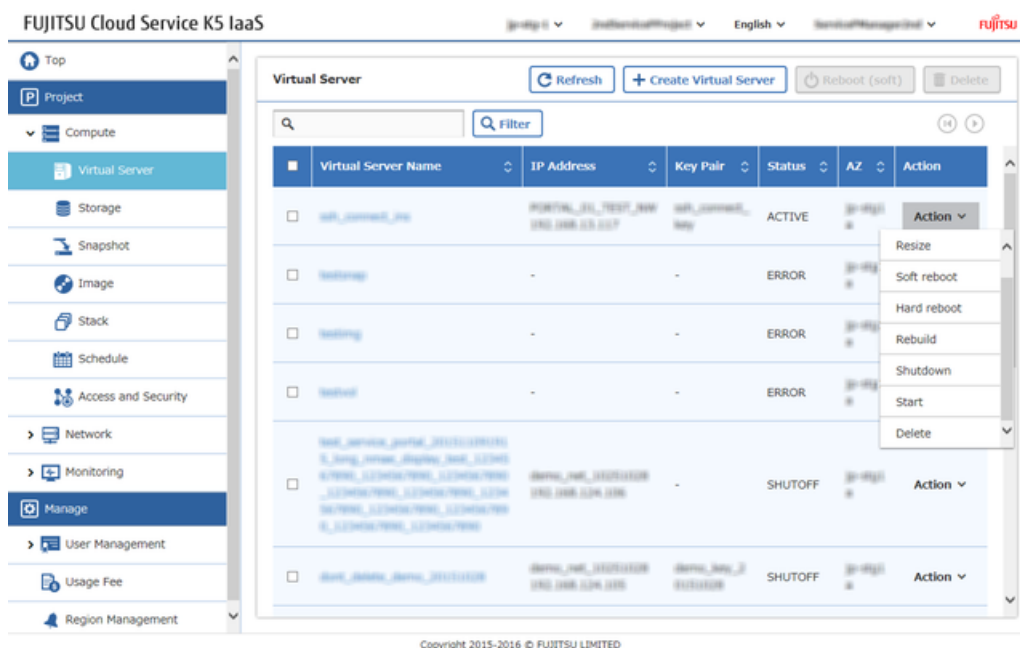
Note

In case at the time of Virtual server creation, the system storage is set as "Do not Delete" then the disk displayed at that time on the screen will not be deleted. If necessary, please delete it from the [Storage] List screen.

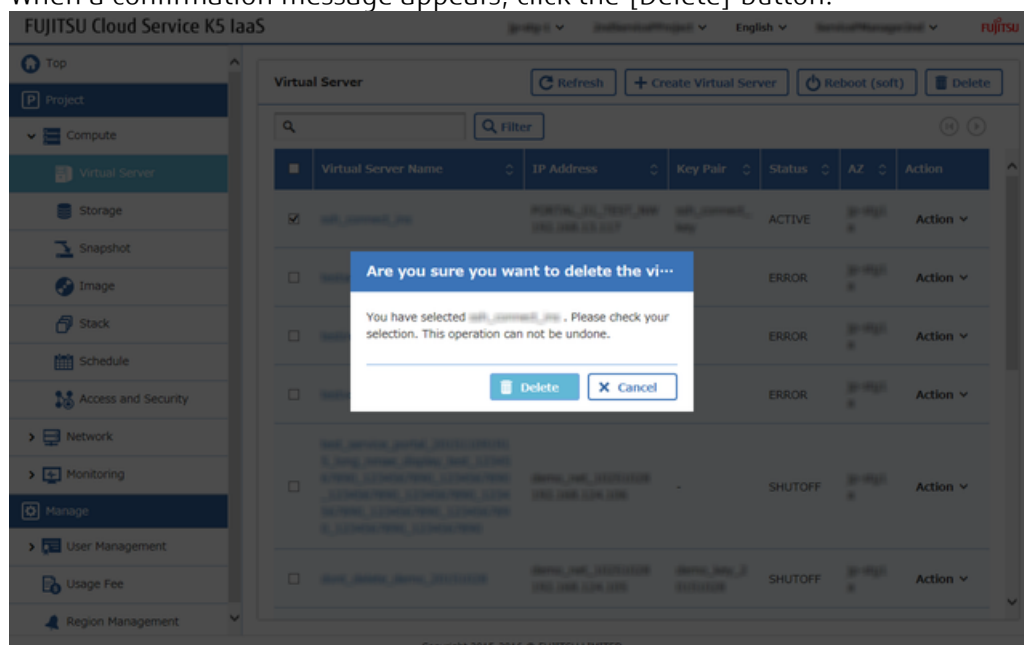
3. Click the [Back] button to return to the [Virtual Server] list screen.
4. Select the virtual server which needs to be deleted and use either of the following methods for deletion
  - On the [Virtual Server] list, use the check box on the left end of the list to select the target, and then click the [Delete] button



- On the [Virtual Server] list, select [Delete] on the [Action] menu that is in the right end of the row for the target virtual server



5. When a confirmation message appears, click the [Delete] button.



## Results

After the [Virtual Server] list screen appears, confirm that the deleted virtual server is not displayed on the list.



Tip

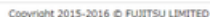
As per the processing status, the virtual server is will left behind .In that case, after waiting for a while, please refresh by clicking the [Refresh] button.

### 6.3.1 Creating an Alarm and Displaying the Details

## About this task

## Procedure

1. From the left-hand menu, click **[Monitoring]** > **[Alarm]**.  
The **[Alarm List]** screen will be displayed.
2. Click the **[Create Alarm]** button on the **[Alarm List]** screen.



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FUJITSU Cloud Service K5 IaaS

Project > Monitoring > Alarm

### Create Alarm

Cancel Create

Alarm Information Time Constraints Action

Alarm Name \* alarm10

Details

Enable/Disable Enabled

How to Execute Action Rerun

Type \* Threshold

Start Rule

Monitoring Item \* fcx.compute.cpu\_util [Setting](#)

Threshold \* 80

Operator for comparing threshold and sampling Greater than or equal

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Click the [Setting] button for the [Monitoring Item] column, and select the CPU utilization rate, "fcx.compute.cpu\_util", of the virtual server which needs to be monitored.

[Time Constraints] tab

FUJITSU Cloud Service K5 IaaS

Project > Monitoring > Alarm

### Create Alarm

Cancel Create

Alarm Information Time Constraints Action

Time Constraints

Restriction name *	Description	Start Date *	Duration *	Time Zone
<a href="#">+ Add</a>				

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[Action] tab

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Creation is complete when the created alarm appears in the [Alarm List] screen.

4. To check the details of the created alarm, click the link of the alarm name on the [Alarm List] screen.
5. When the [Alarm Detail] screen appears, and you can check the details of the alarm.

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## 6.3.2 Displaying Monitored Items and Statistics of the Sample Data

You can check and display the items of the virtual resources that are provided by standard system.

### About this task

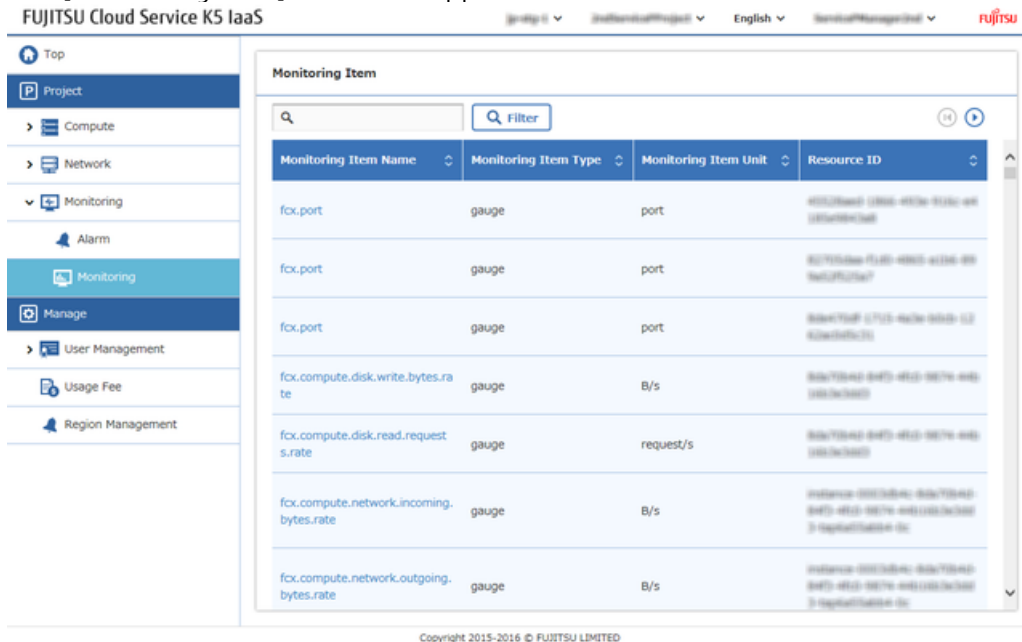
This section describes the procedure to use the following display functions related to item to be monitored.



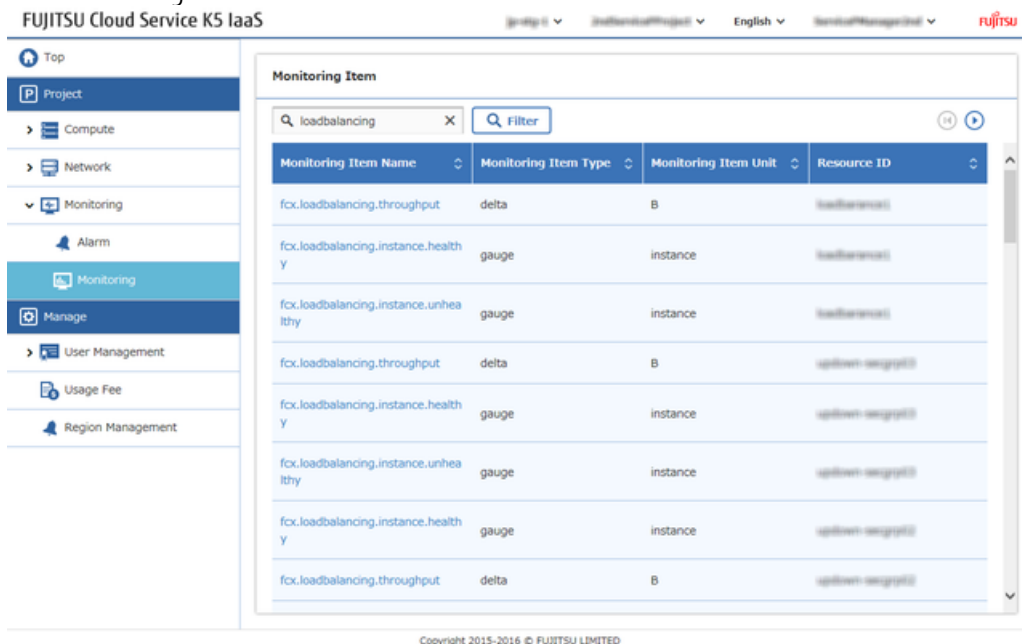
- Displaying the monitored item list
- Filtering the monitored items
- Displaying statistics related to the monitored items

## Procedure

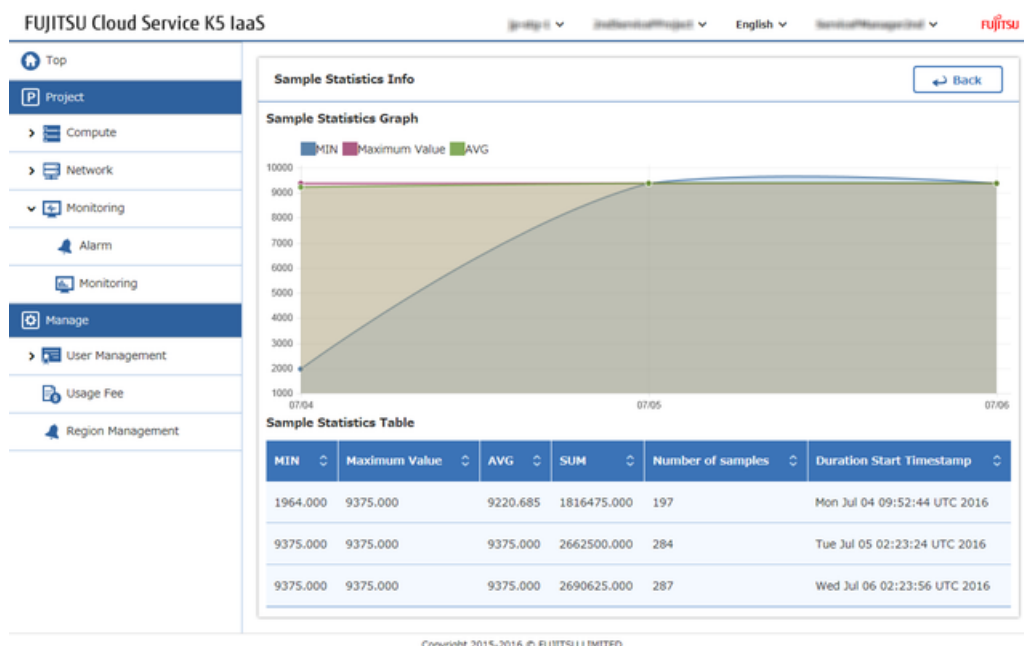
1. From the left-hand menu, click [Monitoring] > [Monitoring].  
The [Monitoring Item] list screen appears.



2. In order to narrow down the list of monitored items, enter a string in the input column, and click the [Filter] button.  
Monitored Item name will display the narrowed down monitoring items which includes the entered string.



3. On the monitored item list, click the name of the monitored item, in order to check the required statistics.



The sample statistics of the monitoring items which were clicked, these can be checked by the graphical change displayed on the screen .

## 6.3.3 Creating a Schedule

Create a schedule to send a signal (apply the scaling policy) to a stack at the specified time.

### Before you begin

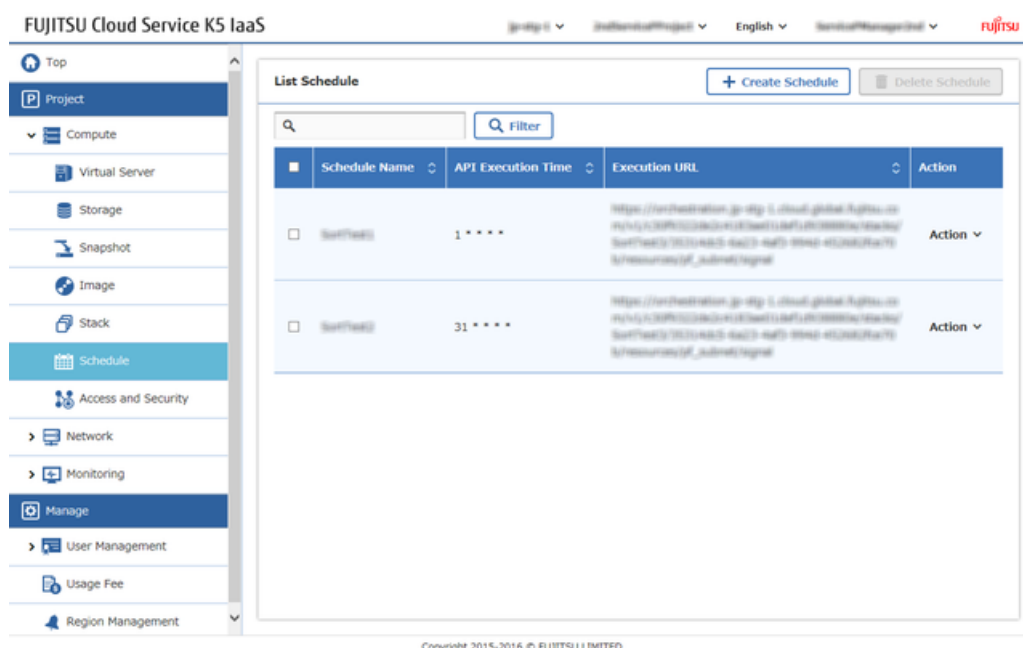
You need to create a stack that includes auto-scaling settings in advance.

### About this task

This section describes the procedure to create a schedule for the stack that was created in [Creating a Stack and Displaying the Stack Details](#) on page 53.

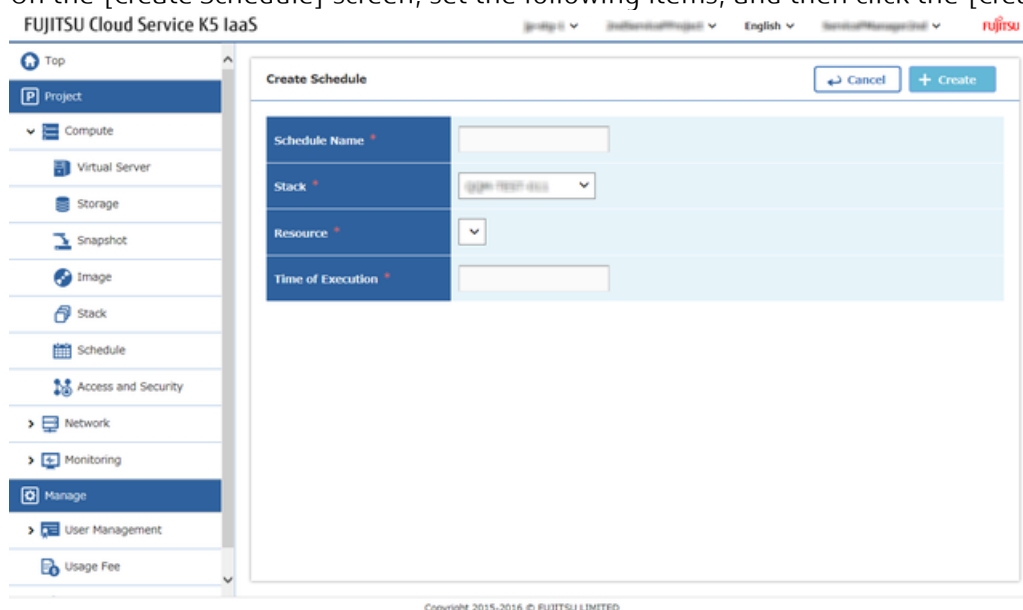
### Procedure



1. From the left-hand menu, click [Compute] > [Schedule].



The [List Schedule] screen appears.

2. Click the [Create Schedule] button on the [List Schedule] list screen.
3. On the [Create Schedule] screen, set the following items, and then click the [Create] button.



Item Name	Description
Schedule Name	Specify a schedule name  The schedule name must be unique to the domain. Note
Stack	Select the target stack
Resource	Select the target to apply this schedule
Time to Execution	Specify the time in the format of "Minute Hour DOM Month DOW" (with the fields separated by single-byte spaces)  Example: 00 02 * * *

Item Name	Description
	Tip .....

Table 4: Format of the [Time to Execution] Field

Field	Values That Can Be Specified
Minute	From 0 to 59, * specifies every minute
Hour	From 0 to 23, * specifies every hour
DOM	From 1 to 31, * specifies every day
Month	From 1 to 12, or from jan to dec, * specifies every month
DOW	From 0 to 7 (0 and 7 specifies Sunday), or from sun to sat, * specifies all days

The procedure is complete once the created schedule appears on the [List Schedule] list screen.

## 6.3.4 Deleting a Schedule

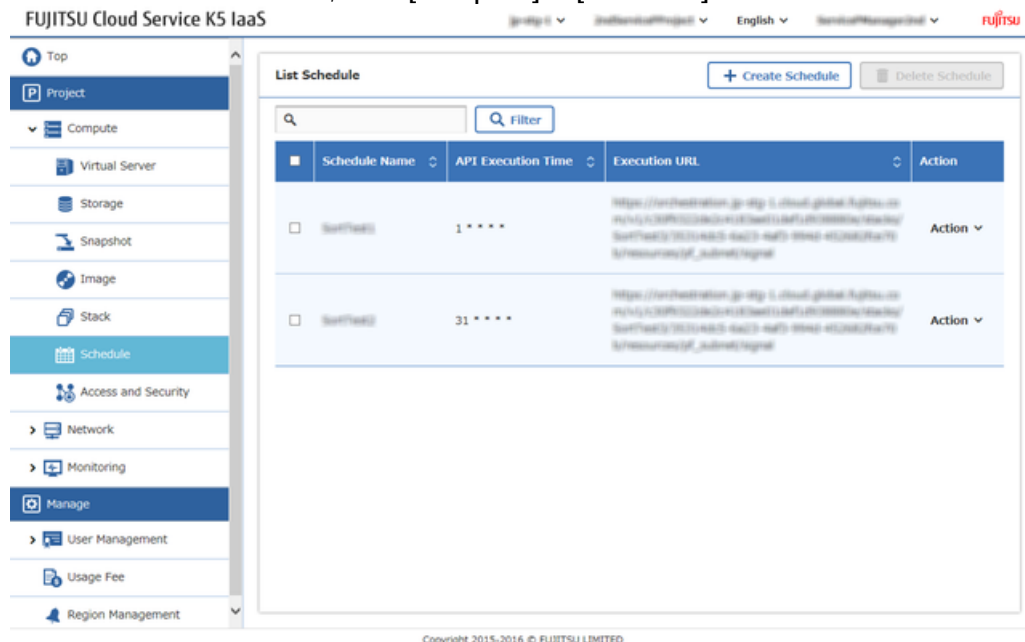
Delete a schedule that is no longer needed.

### About this task

This section describes the procedure to delete a created schedule.

### Procedure

1. From the left-hand menu, click [Compute] > [Schedule].



The [List Schedule] list screen appears.

2. Click [Delete] on the [Action] menu for the schedule to be deleted.



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# Part 7: Using the Management Functions

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Topics:

- [\*Displaying Usage Charges\*](#)

## 7.1 Displaying Usage Charges

### 7.1.1 Displaying a Provisional Usage Charge

Display the usage charges of amount which is not fixed, such as charges for the current month.

#### About this task

You can check the following information on the screen that displays the provisional usage charges:

- Total amount that was used for all projects within the contract number
- Total amount for each project and its usage details

#### Procedure

From the left-hand menu, click [Usage Fee] to display the [Usage Details(Interim)] screen.

**FUJITSU Cloud Service K5 IaaS**

Usage Details(Interim)

Always check your invoice for the amount billed.  
The final billing amount can be found on the billing screen of the K5 portal  
The billing amount for each item on the list is displayed excluding tax.

**Basic Charges Information**

Use Period: 2016/07/01 ~ 2016/07/09 (UTC)

Total Charges within Contract: [Search]

Project

Billing Amount (excluding Tax): (JPY) 0.0

**Charges Breakdown**

Item Name	Unit Price · Unit Name	Usage · Unit Name	Charges
Usage detail			
Free promotion	0.0 / Number*Hours	1,296.0 Number*Hours	0.0
Free promotion	0.0 / Number*Hours	351.0 Number*Hours	0.0
Free promotion	0.0 / Number*Hours	432.0 Number*Hours	0.0
Free promotion	0.0 / Number*Hours	432.0 Number*Hours	0.0

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Service Portal User Guide 1.4 version

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