

# Resource Formation Service

## FAQs

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# 1 Resource Formation Service

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[1.1 How Will I Be Charged for Using RFS?](#)

[1.2 How Can I Update a Resource Stack?](#)

[1.3 What Are the Differences Between Creating an Execution Plan, Creating a Resource Stack, and Updating a Resource Stack?](#)

## 1.1 How Will I Be Charged for Using RFS?

RFS itself is free of charge. However, when you use a template to create a resource stack, RFS will create cloud service resources as specified in the template. These resources are charged at the pricing of the corresponding cloud services. For details, see [Product Pricing Details](#).

## 1.2 How Can I Update a Resource Stack?

RFS supports updating resource stacks. To update a resource stack, modify your resource stack template first by modifying its parameter values, or adding or deleting resources specified in the template. Then, click **Update** and select the modified template to update the resource stack.

## 1.3 What Are the Differences Between Creating an Execution Plan, Creating a Resource Stack, and Updating a Resource Stack?

**Creating an execution plan:** Generate an execution plan. You can browse the entire plan in advance to evaluate the impact on ongoing resources. Creating an execution plan will not change the resource stack. The system changes the resource stack only when the execution plan is executed.

**Creating a resource stack:** Provide an initial template to create and deploy a resource stack.

**Updating a resource stack:** Provide a new template or new parameters to trigger a new deployment for directly modifying the resource stack.

# 2 Application Orchestration Service

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[2.1 What Is AOS?](#)

[2.2 What Is a Stack?](#)

[2.3 What Is a Template?](#)

[2.4 What Is a TOSCA Template?](#)

[2.5 How Do I Upgrade a Stack?](#)

[2.6 Do AOS Public Templates Support Arm \(Kunpeng\)?](#)

## 2.1 What Is AOS?

Application Orchestration Service (AOS) allows you to deploy your applications on HUAWEI CLOUD in a few clicks, simplifying cloud service management. Using templates to describe and orchestrate applications and related cloud services, AOS facilitates automatic application deployment, cloud service creation, and E2E application lifecycle management.

## 2.2 What Is a Stack?

A stack is a collection of applications and cloud service resources. The applications or cloud services in a stack are treated as a whole when they are being created, upgraded, or deleted.

With AOS, you can create stacks to deploy your applications on HUAWEI CLOUD with ease and uniformly manage the cloud service resources on which the applications depend.

The elements in a stack are defined by a template.

## 2.3 What Is a Template?

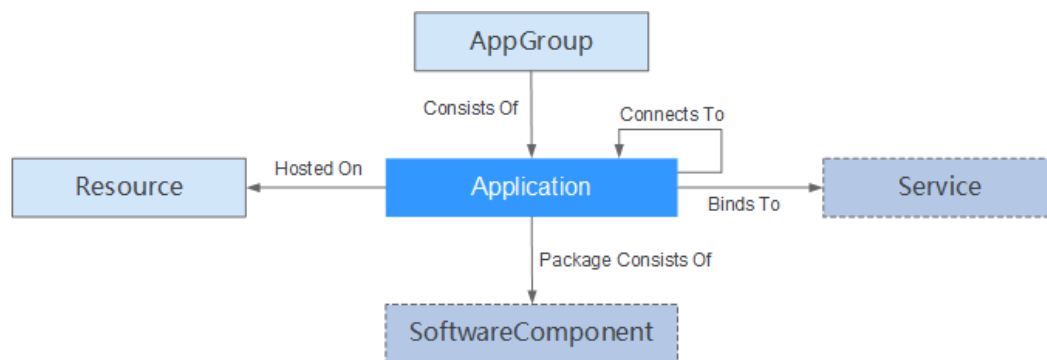
A template is a text file that complies with AOS syntax. It defines application attributes, cloud service configurations, and dependencies between applications and cloud services. Like code, templates can be managed by users. Code

management tools such as Git and SVN can also be used to manage templates of different versions. Using templates to manage applications and cloud services simplifies the design of deploying application systems on the cloud and facilitates replicating and setting up development, testing, and production environments. This makes application systems configurable, evolvable, and traceable.

## 2.4 What Is a TOSCA Template?

Topology and Orchestration Specification for Cloud Application (TOSCA) is an OASIS open standard that defines the interoperable description of services and applications hosted in the cloud, thereby facilitating lifecycle management across cloud service providers. **Figure 2-1** shows the application topology model used by AOS.

**Figure 2-1** Application topology model



**Table 2-1** Elements and relationships in the application topology model

Element	Description
Resource	Resources, including virtual machines (VMs) and containers.
AppGroup	A group of one or more cloud applications. You can perform lifecycle management (such as deployment and upgrade) for the entire group rather than for individual cloud application. A cloud application group can be a customer product, service system, or subsystem.
Application	Cloud application running on resources. It is the smallest deployable object in the application topology model. Note that a microservice is a type of application.
SoftwareComponent	Software component of a cloud application. Each component is packed into a software package. This element is optional and can also be an attribute of the <b>Application</b> element.
Service	Service on which an application depends. A service is a set of function objects.

Element	Description
DependsOn	A relationship describing dependencies between elements, which determines the sequence in which elements will be created.
HostedOn	A relationship describing that applications run on resources.
ConsistsOf	A relationship of composition. For example, AppGroup consists of applications.
ConnectsTo	A relationship describing that one element calls or connects to another element. For example, applications or resources connect to each other.
PackageConsistsOf	A relationship describing that an application consists of software components.

## 2.5 How Do I Upgrade a Stack?

AOS does not support stack upgrade. You can update a template or upload a new template to create an up-to-date stack.

## 2.6 Do AOS Public Templates Support Arm (Kunpeng)?

AOS public templates support both Arm and x86. Therefore, Kunpeng clusters can be used to create stacks from AOS public templates.