1. billing对接流程概要
   1. 流程说明

<https://www.processon.com/view/link/5a14041be4b06bed41d39648>

1. 获取报价
   1. 云服务器获取报价

云服务器的新建、删除、修改计算规格、调整带宽、挂载网络、卸载网络前，均需要调用本接口，除新增外其他操作需要传入vmInstanceUuid。

请求消息样例：

* 1. 订单类型

***BUY***,  
 ***RENEW***,  
 ***UN\_SUBCRIBE***,  
 ***MODIFY***

* 1. 消息样例

入参：

{

"org.zstack.header.vm.APIGetVmInstancePriceMsg": {

"instanceOfferingUuid": "0ce9851aeaa84a6586a60820f76e9acc",

"l3NetworkBandwidths": [

{

"l3NetworkUuid": "104b1baae9ed43eeaeeaa55cca82fd00",

"bandwidth": 20971520

}

],

"zoneUuid": "222acda790f64ec282b7da7fb0a92a42",

"duration": 1,

"orderType":"BUY",

"productChargeModel": "BY\_MONTH",

"session": {

"uuid": "baaa7923bef94b35aa170e89f369f5d4"

}

}

}

返回参数：

{

"state": "Done",

"createdDate": "Nov 22, 2017 1:15:38 AM",

"finishedDate": "Nov 22, 2017 1:15:38 AM",

"result": "{\"org.zstack.header.vm.APIGetVmInstancePriceReply\": {\"originalPrice\":2100,\"discountPrice\":200.0000,\"mayPayTotal\":0.0000,\"success\":true}}"

}

originalPrice：原价

discountPrice：折扣价

mayPayTotal：余额

Tips：修改和删除只有折扣价，修改订单的discountPrice为负数时为退款。

1. 云服务器购买

创建云服务器需要和创建磁盘隔离开，云服务器新建子窗口需要隐藏数据盘的选择功能。

* 1. 后端处理流程

<https://www.processon.com/view/link/59f6eb3ce4b0f84f89749f63>

* 1. 消息样例



1. 云服务器删除
   1. 后端处理流程

<https://www.processon.com/view/link/5a0b976be4b049e7f4fd80cc>

* 1. 消息样例



1. 云服务器修改

计费相关的修改操作包括：云服务器的修改计算规格、调整带宽、挂载网络、卸载网络。

* 1. 后端处理流程

<https://www.processon.com/view/link/5a0bec9ae4b0d53d979908bd>

* 1. 消息样例
     1. 调整带宽

{

"org.zstack.header.vm.APIChangeNicBandwidthMsg": {

"vmNicUuid": "d10627995ea94040ba0be5f6394448ae",

"vmInstanceUuid": "998ed244bcde440eacebb98323922779",

"bandwidth": 41943040,

"session": {

"uuid": "acd3529085654116bb65eb9954f6dc28"

}

}

}

* + 1. 修改计算规格

{

"org.zstack.header.vm.APIChangeInstanceOfferingMsg": {

"vmInstanceUuid": "8a8bacb98da44636968db7f8bed51ea2",

"instanceOfferingUuid": "0ce9851aeaa84a6586a60820f76e9acc",

"session": {

"uuid": "31698770c8bf433a8d2af1f5087ee6bd"

}

}

}

* + 1. 挂载网络

{

"cn.syscloud.header.vm.APIAttachL3NetworkToVmMsg": {

"l3NetworkUuid": "63b52f4cb8bc462b899799fbb7a4b404",

"vmInstanceUuid": "de33dd4d6e844fdcb7588ffb9e79e7cd",

"bandwidth": 20971520,

"session": {

"uuid": "8bba59fbfcd34a43aee81e792309f1a9"

}

}

}

* + 1. 卸载网络

{

"cn.syscloud.header.vm.APIDetachL3NetworkFromVmMsg": {

"vmNicUuid": "d10627995ea94040ba0be5f6394448ae",

"session": {

"uuid": "acd3529085654116bb65eb9954f6dc28"

}

}

}

1. 获取磁盘价格
   1. 入参

{

"org.zstack.header.volume.APIGetVolumePriceMsg": {

"volumeUuid":"6f19c3ceb54c4ec9a69c5bf96c2733cd",

"orderType":"UN\_SUBCRIBE",

"session": {

"uuid": "772690e765db4603b6bc75fec62564c0"

}

}

}

* 1. 返回参数

{"org.zstack.header.volume.APIGetVolumePriceReply":{"originalPrice":0,"discountPrice":0.0000,"mayPayTotal":0,"success":true}}