

Resource Types, Actions and Parameters(WC)

This section gives descriptions of the instance schema for various resource instances. It describes methods, actions, and method parameters. Please refer to [Instances](#) for details on instances of various resources and examples using HTTP requests. Refer to [Getting Started with Instances](#) for examples of actions working with instances using runcws.

Resource Types

- Virtual Machine (vm)
- Key Pair (kp)
- Security Group (sg)
- Volume Storage (vs)
- Volume Snapshot (snap)
- Floating IP Address (ip)
- Image (image)
- SaaS

Virtual Machine (vm) Instance Schema

Method: vm.create

Description: Create virtual machine.

Parameters:

Attribute	Description	Type	Required	Restrictions
imageUri	The URI of the image	string	TRUE	minLength = 8, maxLength = 128
keyPairId	The instance ID of the key pair	string	FALSE	minLength = 36, maxLength = 36

securityGroupIds	An array of security group instance ID's	array	FALSE	minItems = 1, maxItems = 5
userData	User data for the virtual machine	string	FALSE	minLength = 2, maxLength = 4096
zone	The zone for the virtual machine	string	FALSE	minLength = 2, maxLength = 32
cpuCount	The CPU count	integer	FALSE	minimum = 1
cpuSpeed	The CPU speed in GHz	number	FALSE	none
localStorage	Local storage in GBytes	number	FALSE	none
ram	RAM in MBytes	number	FALSE	none

Method: vm.create.image

Description:

Create an image from a virtual machine.

Parameters:

No parameters

Method: vm.retrieve

Description:

Retrieve virtual machine.

Parameters:

No parameters

Method: vm.retrieve.password

Description:

Retrieve virtual machine password.

Parameters:

No parameters

Method: vm.update.password

Description:

Update password on a virtual machine.

Parameters:

Attribute	Description	Type	Required	Restrictions
password	Password	string	true	minLength = 5, maxLength = 256

Method: vm.update.start

Description:

Start virtual machine.

Parameters:

No parameters

Method: vm.update.stop

Description:

Stop virtual machine.

Parameters:

No parameters

Method: vm.update.reboot

Description:

Reboot virtual machine.

Parameters:

Attribute	Description	Type	Required	Restrictions
rebootType	Reboot type - hard or soft	string	false	none

Method: vm.delete

Description:

Delete virtual machine.

Parameters:

No parameters

Key Pair (kp) Instance Schema

Method: kp.create

Description:

Create key pair.

Parameters:

No parameters

Method: kp.retrieve

Description:

Retrieve key pair.

Parameters:

No parameters

Method: kp.delete

Description:

Delete key pair.

Parameters:

No parameters

Security Group (sg) Instance Schema

Method: sg.create

Description:

Create security group.

Parameters:

No parameters

Method: sg.retrieve

Description:

Retrieve security group.

Parameters:

No parameters

Method: sg.update.add-access

Description:

Add ports to security group.

Parameters:

rules

- description: The security group rules
- type: array
- required: true

- restrictions: minItems = 1, maxItems = 20

Method: `sg.update.remove-access`

Description:

Remove ports from security group.

Parameters:

Attribute	Description	Type	Required	Restrictions
ruleIndexes	The indices of the security group rules that should be removed	array	true	minItems = 1, maxItems = 20

Method: `sg.delete`

Description:

Delete security group.

Parameters:

No parameters

Volume Storage (vs) Instance Schema

Method: `vs.create`

Description:

Create volume storage.

Parameters:

Attribute	Description	Type	Required	Restrictions
sizeInGBytes	Volume size in GBytes	number	true	none

zone	The zone for the virtual machine	string	false	minLength = 2, maxLength = 32
virtualMachineId	The instance id of the virtual machine	string	false	minLength = 36, maxLength = 36
deviceName	The device name for the attached volume	string	false	minLength = 2, maxLength = 128

Method: vs.retrieve

Description:

Retrieve volume storage.

Parameters:

No parameters

Method: vs.update.attach

Description:

Attach volume storage to a virtual machine.

Parameters:

Attribute	Description	Type	Required	Restrictions
virtualMachineId	The instance id of the virtual machine	string	true	minLength = 36, maxLength = 36
deviceName	The device name for the attached volume	string	true	minLength = 2, maxLength = 128

Method: vs.update.detach

Description:

Detach volume storage from a virtual machine.

Parameters:

No parameters

Method: vs.delete

Description:

Delete volume storage.

Parameters:

No parameters

Volume Snapshot (snap) Instance Schema

Method: snap.create

Description:

Create volume snapshot from volume storage.

Parameters:

Attribute	Description	Type	Required	Restrictions
volumeStorageId	Identifier of the volume storage resource	string	true	minLength = 36, maxLength = 36

Method: snap.retrieve

Description:

Retrieve volume snapshot.

Parameters:

No parameters

Method: snap.delete

Description:

Delete volume snapshot.

Parmeters:

No parameters

Floating IP Address (ip) Instance Schema

Method: ip.create

Description:

Create floating ip address.

Providers:

No parameters

Method: ip.retrieve

Description:

Retrieve floating ip address.

Parameters:

No parameters

Method: ip.update.add

Description:

Add a floating ip address to a virtual machine.

Parameters:

Attribute	Description	Type	Required	
virtualMachineId	The instance id of the virtual machine	string	true	minLength

Method: ip.update.remove

Description:

Remove a floating ip address from a virtual machine.

Parameters:

No parameters

Method: ip.delete

Description:

Delete floating ip address.

Parameters:

No parameters

Image (image) Instance Schema

Method: image.create

Description:

Create an image from a virtual machine.

Parameters:

Attribute	Description	Type	Required	
virtualMachineId	The instance id of the virtual machine	string	true	minLength

Method: image.retrieve

Description:

Retrieve image.

Parameters:

No parameters

Method: image.delete

Description:

Delete image.

Parameters:

No parameters

SaaS Schema

Method: saas.create

Request

```
{
  "action": "create",
  "resourceinfo": [
    {
      "resource": {
        "type": "saas",
        "fulfillmenttype": "[api]",
        "vendor": "[vendor]",
        "region": "[region]",
        "isaccountrequired": true/false
      },
      "parameters": {
        "sku": "[productsku]",
        "name": "[product name]",
        "description": "[description with htmltags]",
        "shortdescription": "[short description
htmltags]",
        "category": "[category]",
        "setproductasnew": {
          "fromdate": "[fromdate]",
          "todate": "[todate]",
          "metatitle": "[metatitle]",
          "metakeywords": "[metakeywords]",
          "metadescription": "[metadescription]",
          "saasurl": "[saasurl]",
          "faqurl": "[faqurl]",
          "minpurchasequantity": "[minpurchasequantity]",
          "maxpurchasequantity": "[maxpurchasequantity]",
          "autorenew": true,
          "plantype": "[palntype]",
          "isenabled": true
        },
        "customattributes": {
          "attributename": "attributeval"
        },
        "chargeattributes": [

```

```

"chargeid":"[chargeid]",
"chargename":"Users",
"description":"Per user charge details",
"subscriptionserviceterm":{
  "costprice":{
    "billingperiodfrequency":1,
    "billingperiodunit":"month",
    "chargetype":"[chargetype]",
    "tierpricing":[{
      "sequencenumber":1,
      "startingvalue":0,
      "endingvalue":null,
      "chargeamount":"[cost price]",
      "chargeamountunit":"/mo",
      "currencycode":"usd",
      "isdefault":1,
      "isenabled":1
    }]
  },
  "sellprice":{
    "billingperiodfrequency":1,
    "billingperiodunit":"month",
    "chargetype":"[chargetype]",
    "tierpricing":[{
      "sequencenumber":1,
      "startingvalue":0,
      "endingvalue":null,
      "chargeamount":"[sell price]",
      "chargeamountunit":"/mo",
      "currencycode":"usd",
      "isdefault":1,
      "isenabled":1
    }]
  },
  "erpprice":{
    "billingperiodfrequency":1,
    "billingperiodunit":"month",
    "chargetype":"[chargetype]",
    "tierpricing":[{
      "sequencenumber":1,
      "startingvalue":0,
      "endingvalue":null,
      "chargeamount":"[erp price]",
      "chargeamountunit":"/mo",
      "currencycode":"usd",
      "isdefault":1,
      "isenabled":1
    }]
  }
}
}]
}
]
}

```

Method: `saas.update`

Request

```
{
  "action": "update",
  "sku": "[sku]",
  "parameters": {
    "name": "[product name]",
    "description": "[description with htmltags]",
    "detaileddescription": "[detail description htmltags]",
    "shortdescription": "[short description htmltags]",
    "category": "[category]",
    "setproductasnew": { "fromdate": "[fromdate]", "todate": "[todate]" },
    "metatitle": "[metatitle]",
    "metakeywords": "[metakeywords]",
    "metadescription": "[metadescription]"
    "saasurl": "[saasurl]",
    "faqurl": "[faqurl]",
    "minpurchasequantity": "[minpurchasequantity]",
    "maxpurchasequantity": "[maxpurchasequantity]",
    "isenabled": true,
    "autorenew": true,
    "plantype": "[palntype]"
    "isenabled": true
  },
  "customattributes": {
    "attributename": "attributeval"
  }
}
```

Method: `saas.update.price`

Request

```
{
  "action": "update.price",
  "sku": "[sku]",
  "chargeattributes": [{
    "chargeid": "[chargeid]",
    "subscription serviceterm": {
      "costprice": {
        "billingperiodfrequency": 1,
        "billingperiodunit": "month",
        "chargetype": "[chargetype]",
        "tierpricing": [{
          "sequencenumber": 1,
          "startingvalue": 0,
          "endingvalue": null,
          "chargeamount": "[cost price]",
          "chargeamountunit": "/mo",
          "currencycode": "usd",

```

```

        "isdefault":1,
        "isenabled":1
    }
    },
    "sellprice":{
        "billingperiodfrequency":1,
        "billingperiodunit":"month",
        "chargetype":"[chargetype]",
        "tierpricing":[{
            "sequencenumber":1,
            "startingvalue":0,
            "endingvalue":null,
            "chargeamount":"[sell price]",
            "chargeamountunit":"/mo",
            "currencycode":"usd",
            "isdefault":1,
            "isenabled":1
        }
        ],
        "erpprice":{
            "billingperiodfrequency":1,
            "billingperiodunit":"month",
            "chargetype":"[chargetype]",
            "tierpricing":[{
                "sequencenumber":1,
                "startingvalue":0,
                "endingvalue":null,
                "chargeamount":"[erp price]",
                "chargeamountunit":"/mo",
                "currencycode":"usd",
                "isdefault":1,
                "isenabled":1
            }
            ]
        }
    }
}
]
}

```

Methods: `saas.update.status`

Request

```

{
    "action" : "update.status",
    "sku":"[sku]",
    "parameters":{
        "isenabled":true
    }
}

```

Parameters:

Attribute	Description	Type	Required
sku	Unique service identifier	string	true
name	Name of the SaaS resource	string	true
description	detailed service description	string	true
shortdescription	product/service short description	string	true
category	product category	string	true
setproductnewfrom	dates during which service should show as new in marketplace	string	false