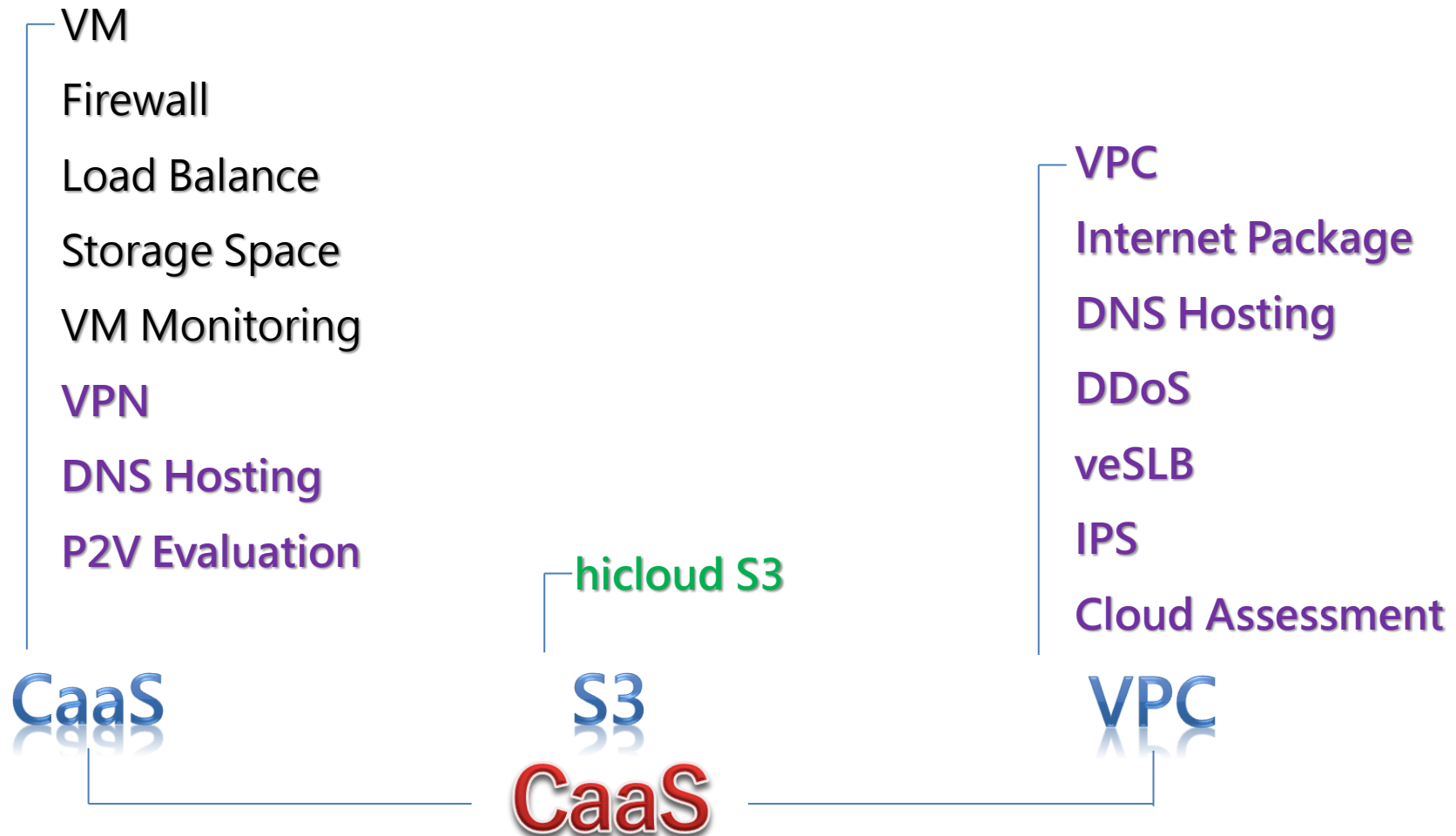
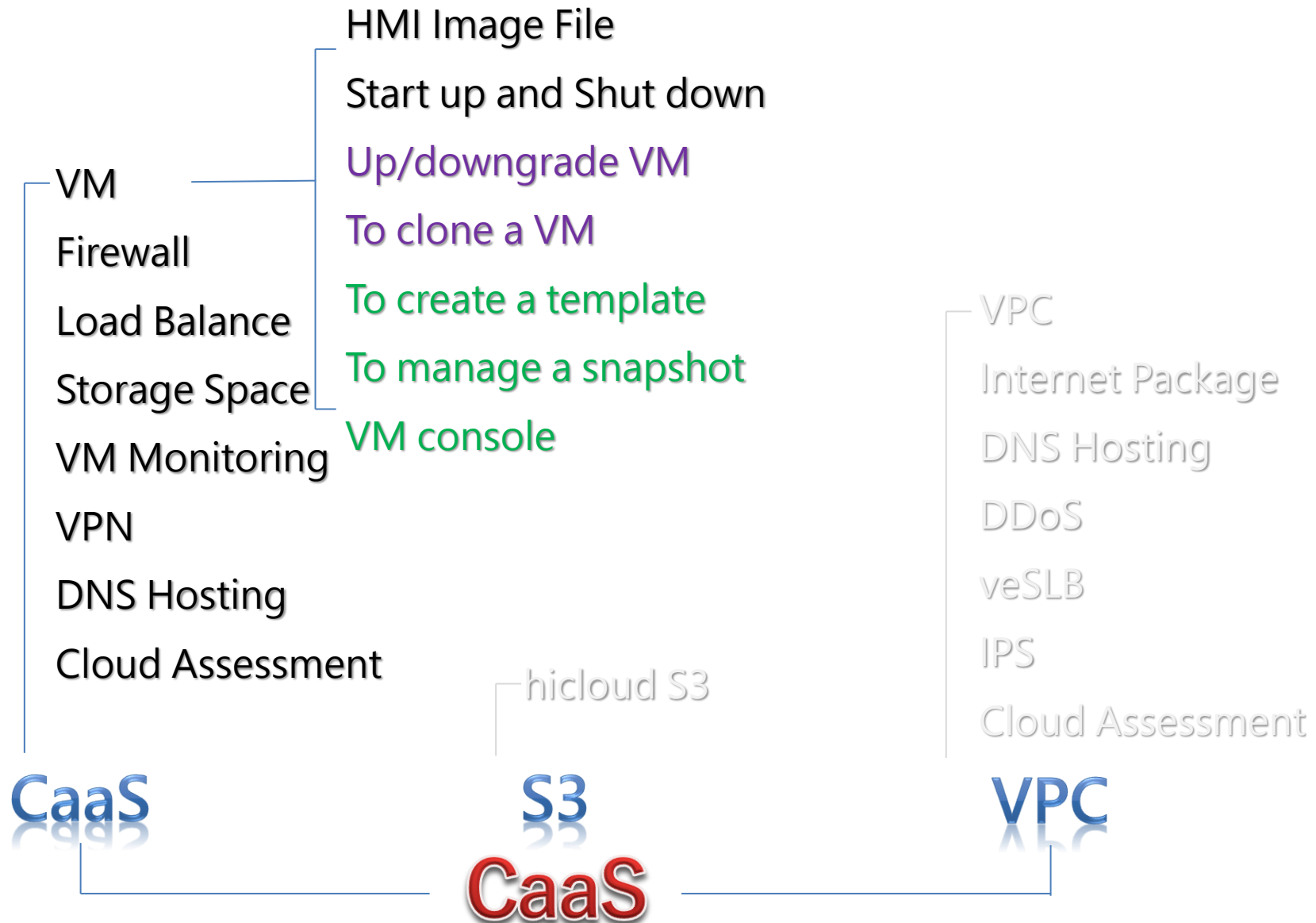


# Description of API Scenarios.

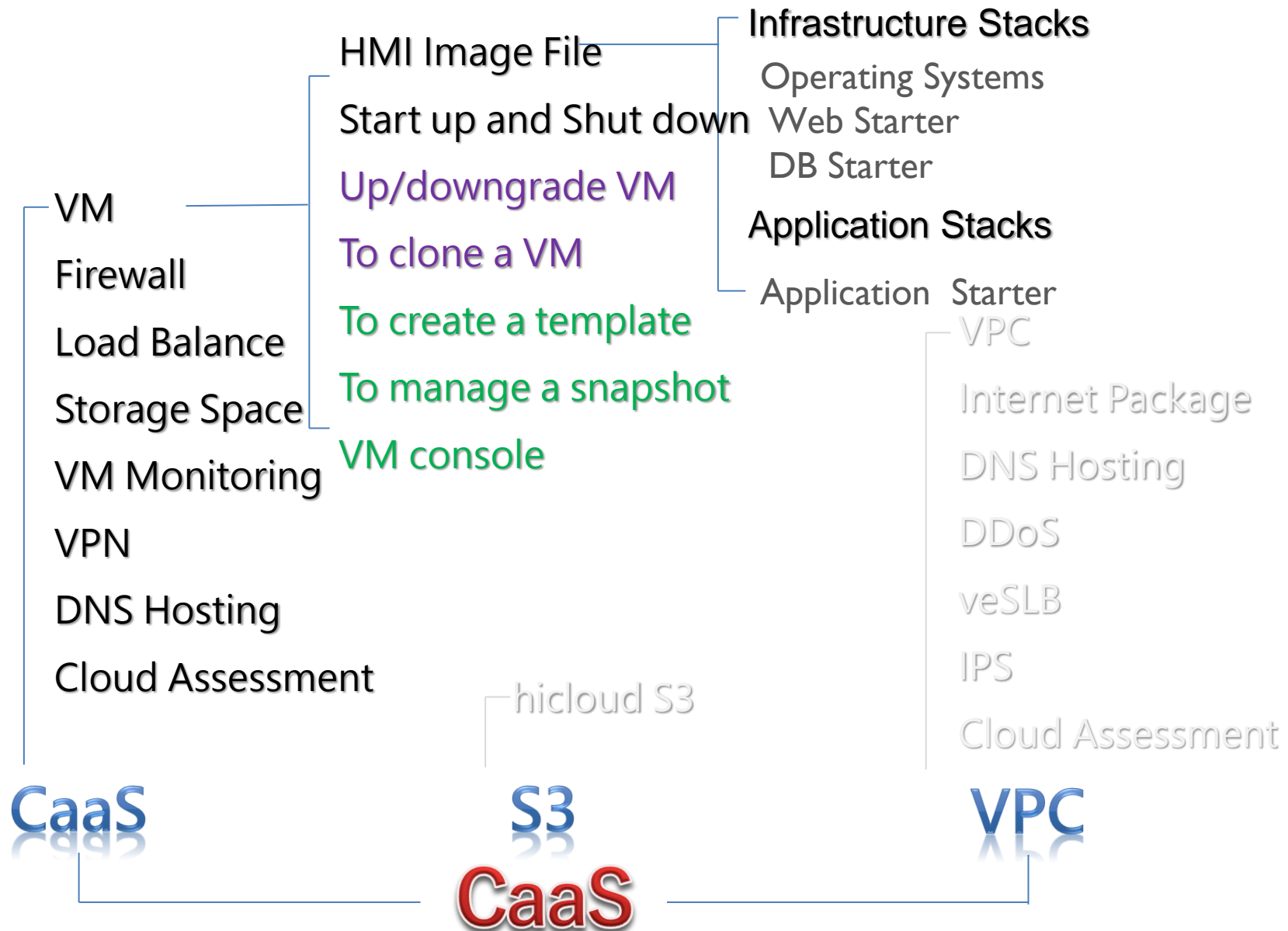


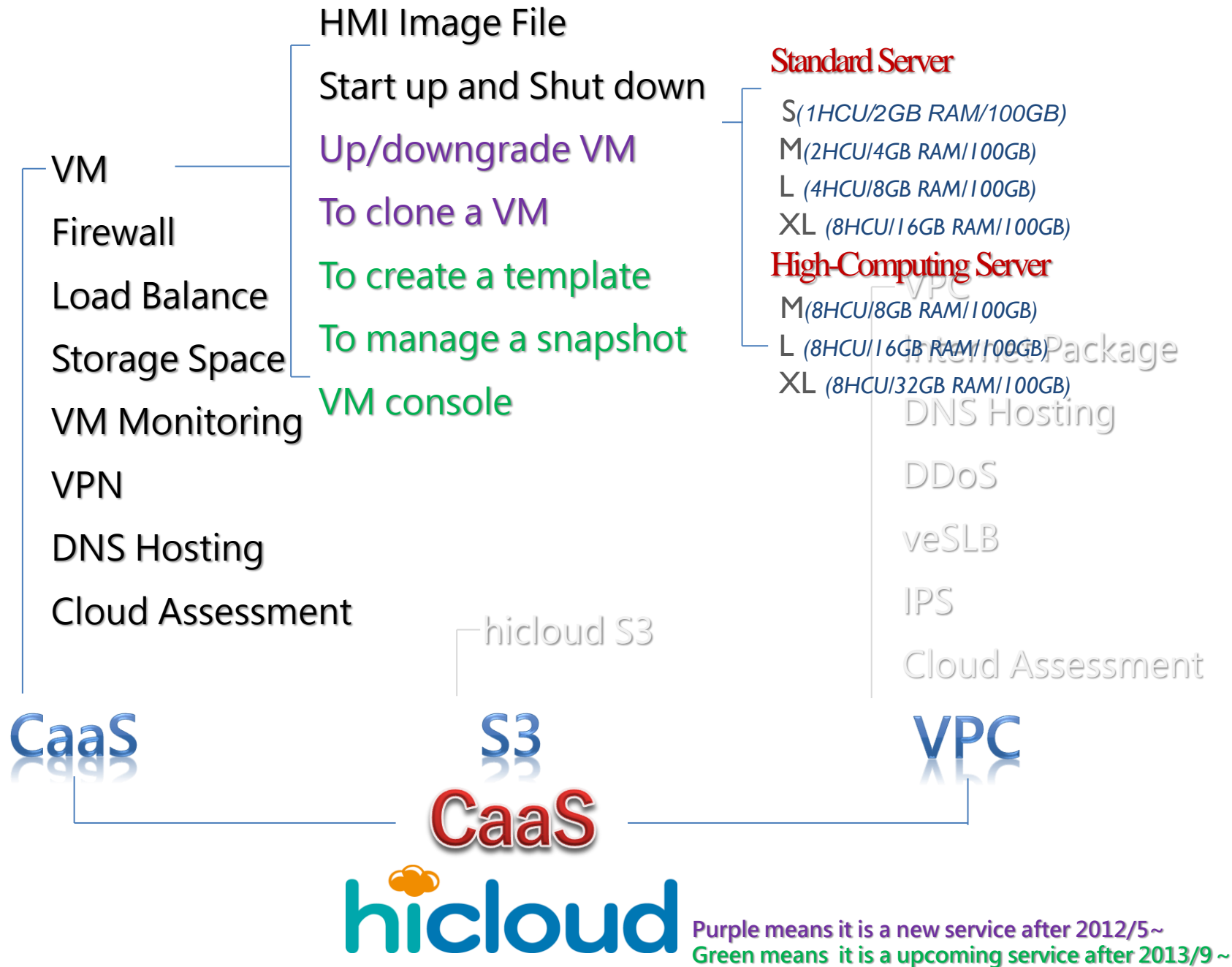


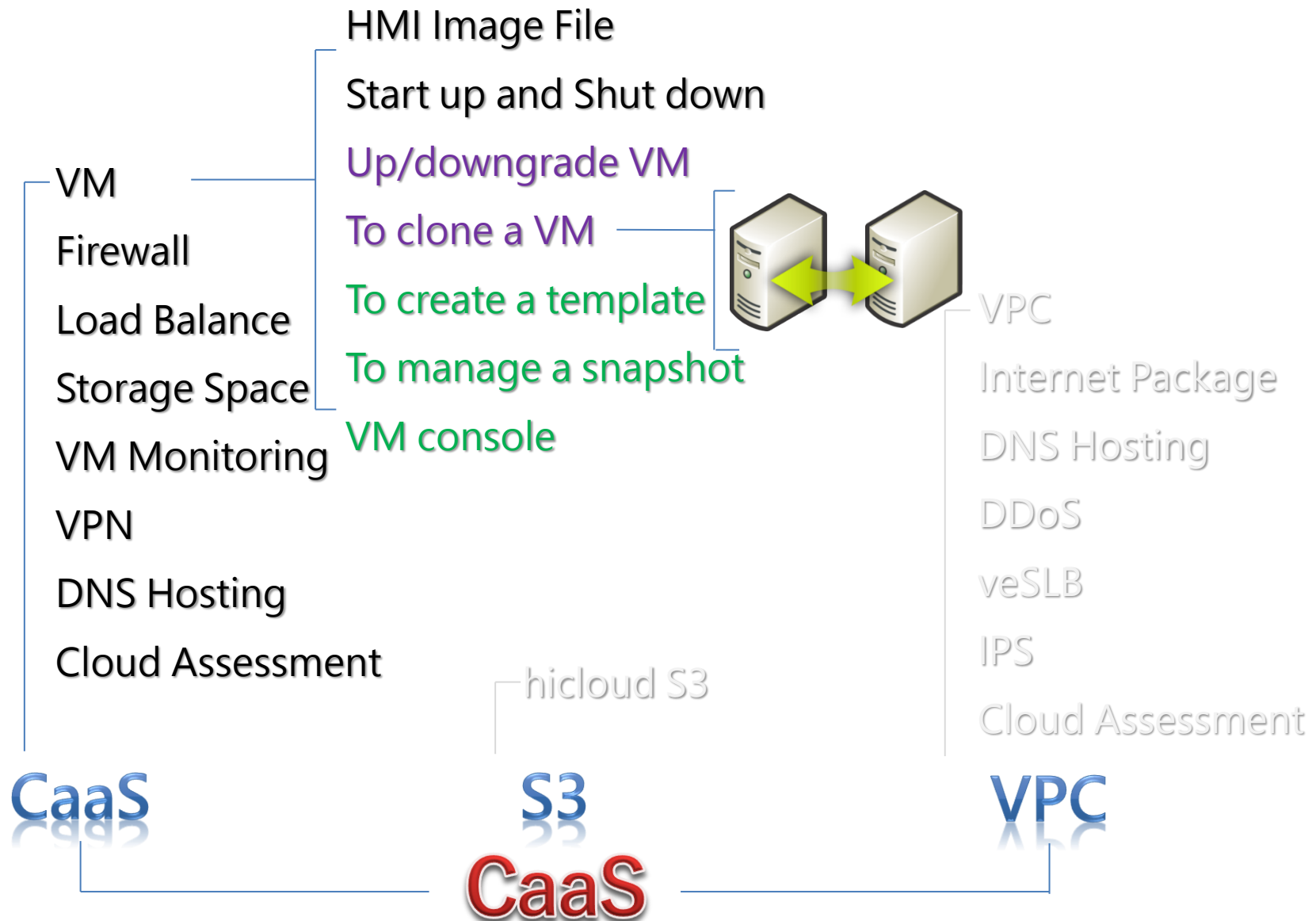
Purple means it is a new service after 2012/5~  
Green means it is a upcoming service after 2013/9 ~

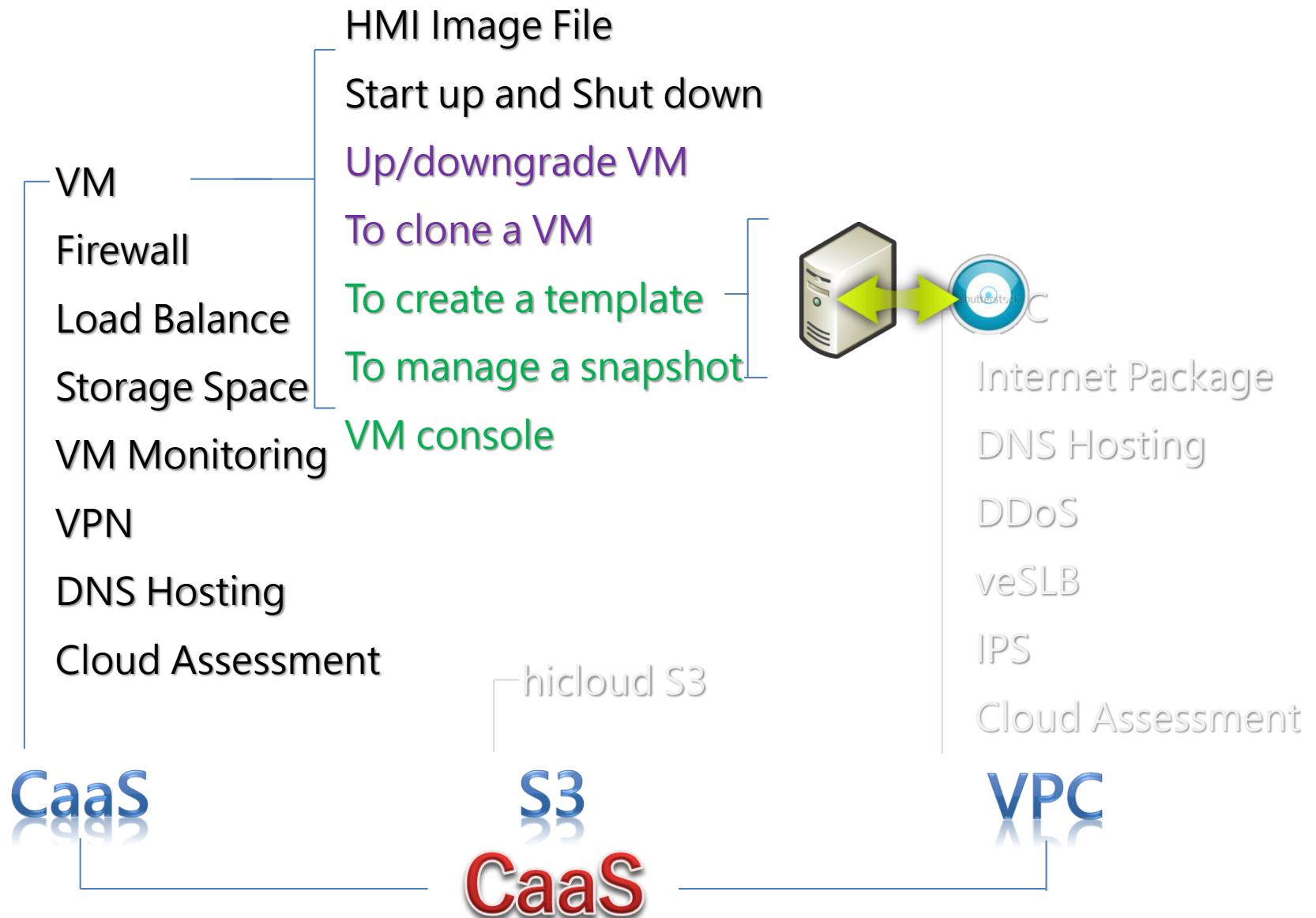


Purple means it is a new service after 2012/5~  
Green means it is a upcoming service after 2013/9~



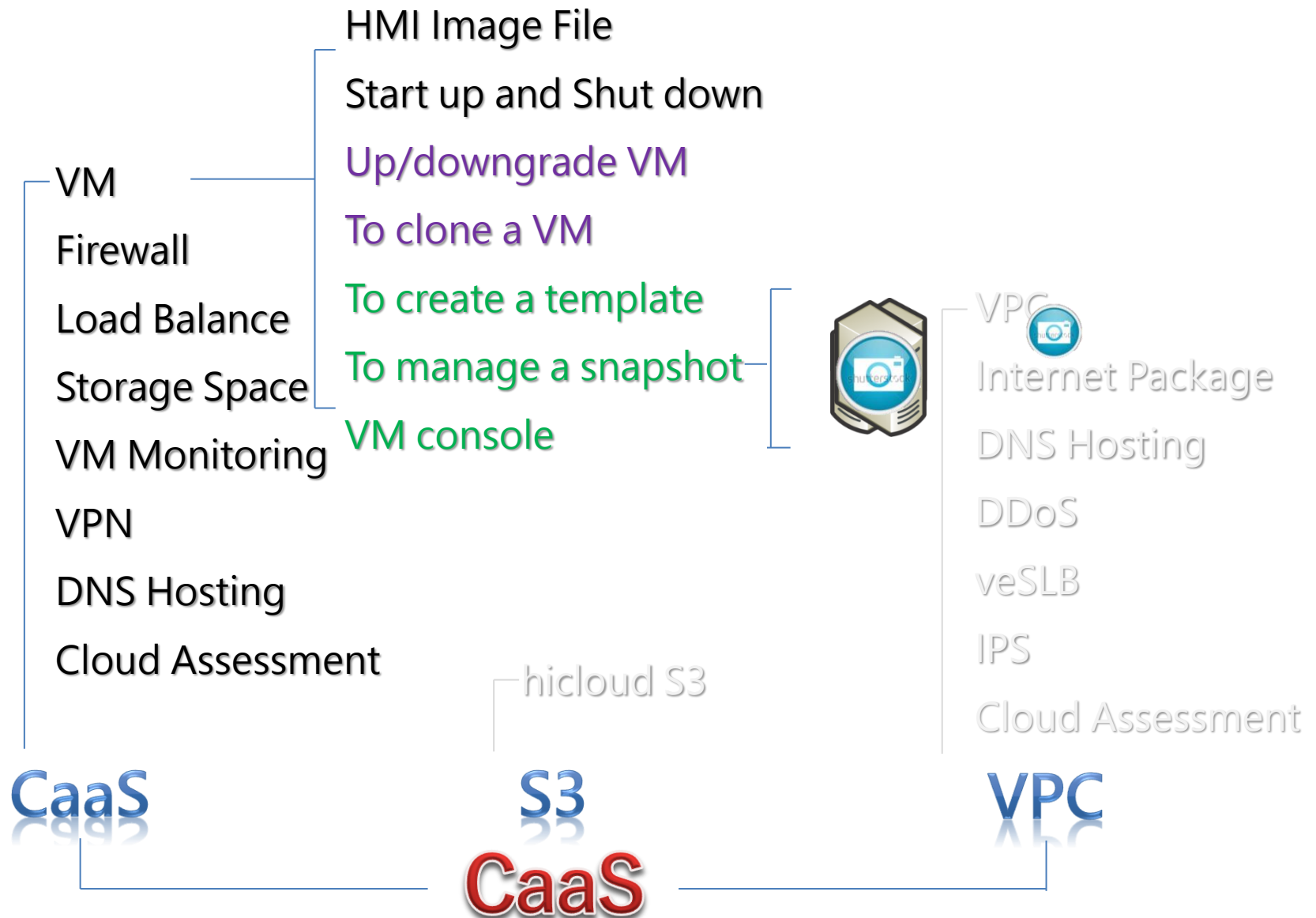




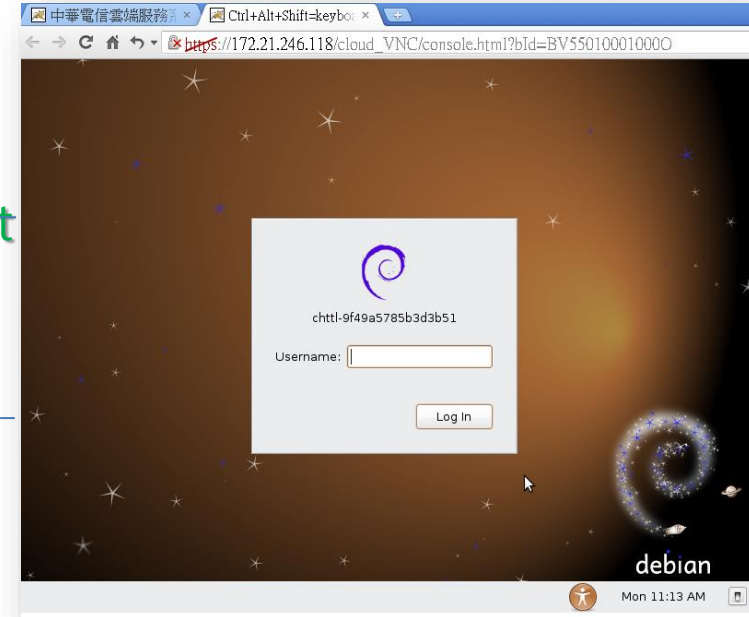
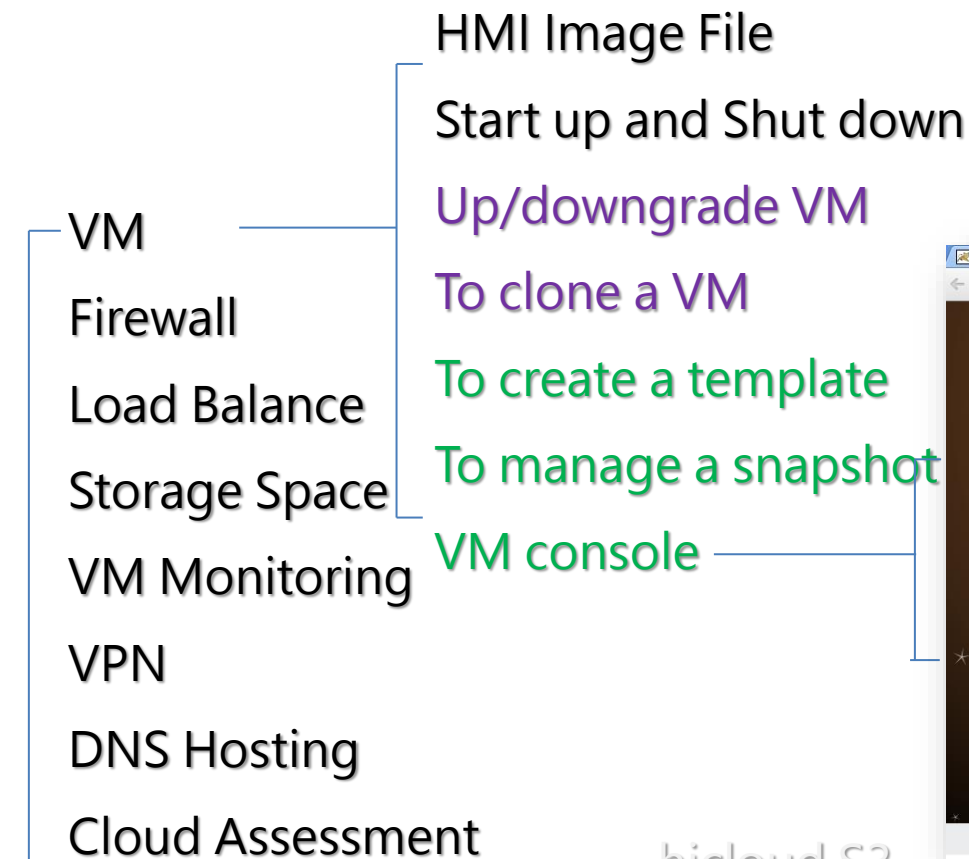


  
**hicloud**

Purple means it is a new service after 2012/5~  
Green means it is a upcoming service after 2013/9 ~







CaaS

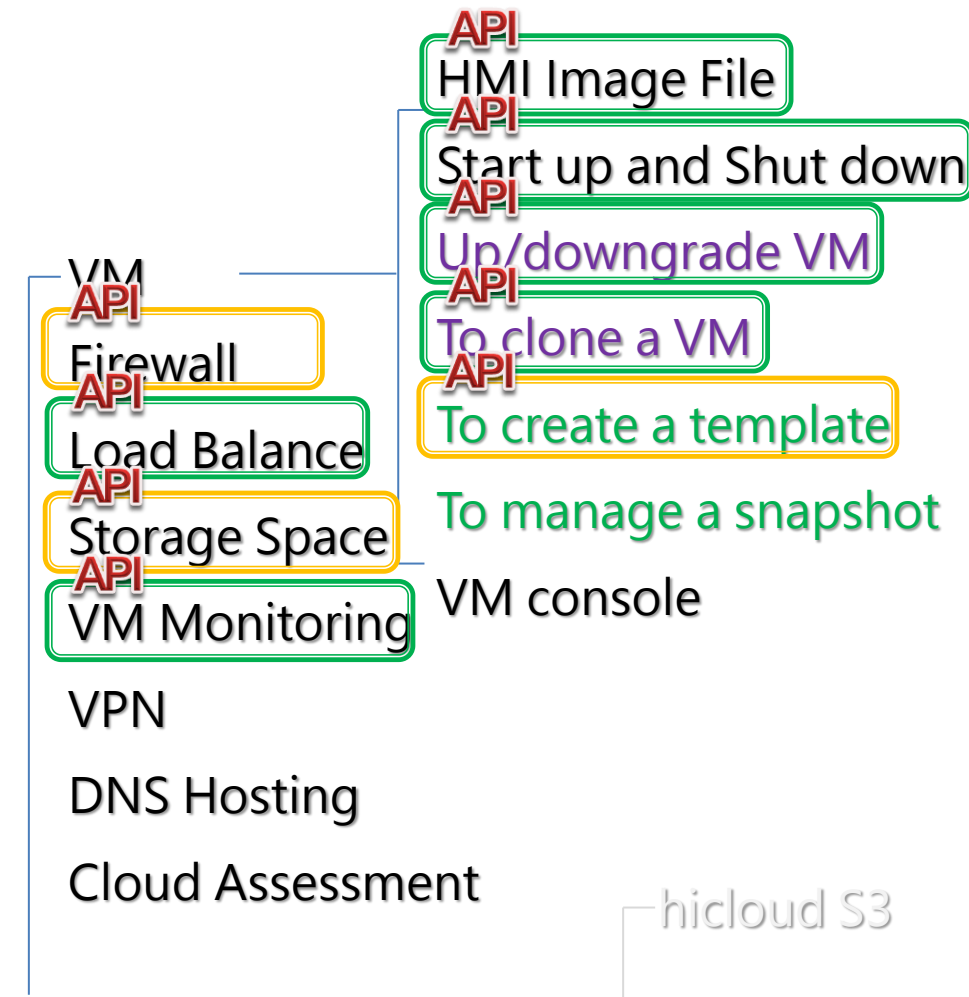
S3

VPC

CaaS

hicloud

Purple means it is a new service after 2012/5~  
Green means it is a upcoming service after 2013/9 ~



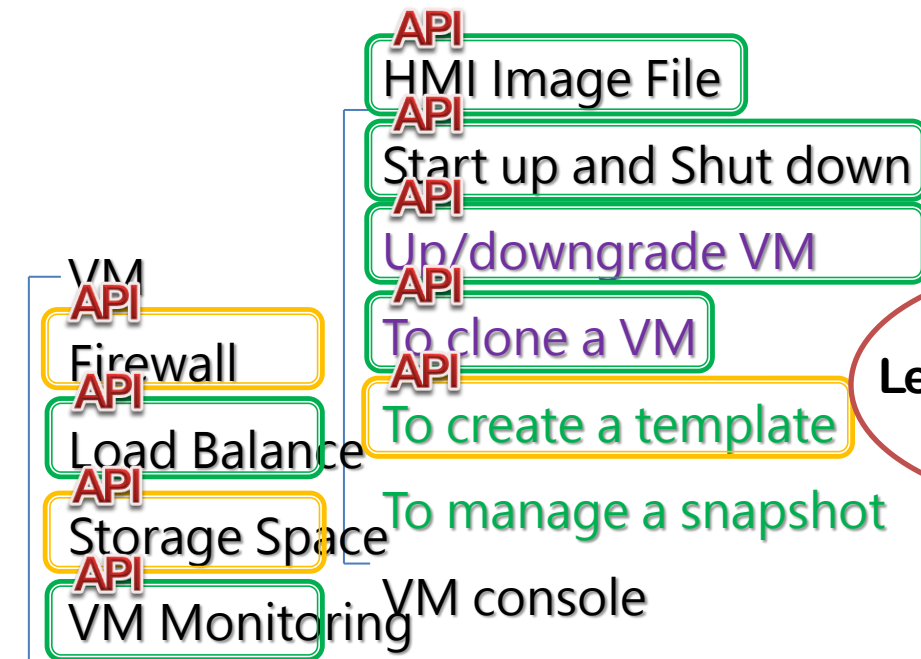
CaaS

S3

CaaS

hicloud





Let's see how to make  
CaaS API!

System Developer

CaaS

S3

CaaS

hicloud



- The platform of the API developer :  
<http://hws.hicloud.hinet.net/hws-doc/>
- The method of signature calculation.

The screenshot shows the 'hicloud CaaS API Developer Center' interface. On the left, a sidebar lists navigation options: VM, Welcome, Actions, Data Structure, Error Code, Common Parameter, Historical Document, and REST Home Page. The main content area displays a 'Welcome' message with a 'Last Update : March,29 2013' and a table of 'Related Topics'.

Item	Related Topics
How to use API	Methods of Calling for REST
API operation related to VM	Actions
Data structure related to VM	Data Structure
Common Parameters for Inquiries	Common Parameter
Error Codes Produced when Calling for API	Error Code
History of Version Updates	Historical Document

Callout 1: 'There is a method of signature calculation in the link of "the method of calling for REST" in the API directions documents in hicloud web services which can be browsed without logging in' points to the 'Methods of Calling for REST' link in the table.

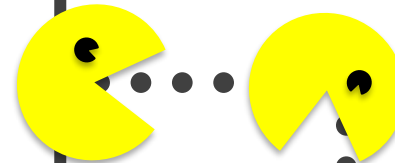
Callout 2: 'Click the link of downloading, and the method of signature calculation can be downloaded.' points to the 'Signature producing tool' link under the 'Download' section.

At the bottom, the 'CaaS API hicloud' logo is displayed.

Enter hidcloud  
to acquire  
Caas API key  
pair.



Download  
SDK.  
Download  
API  
directions  
documents.



Coding....

```
on = database  
getConnection  
connection  
ectSQL = us  
= statem
```



To set up key pair  
and environment  
parameters in  
research and  
development  
environment.



CaaS  
API  
hidcloud





Let's  
Coding!



CaaS  
API  
hcloud

Try it~

System Development



CaaS  
API  
hcloud





Enter hidcloud  
to acquire Caas  
API key pair.

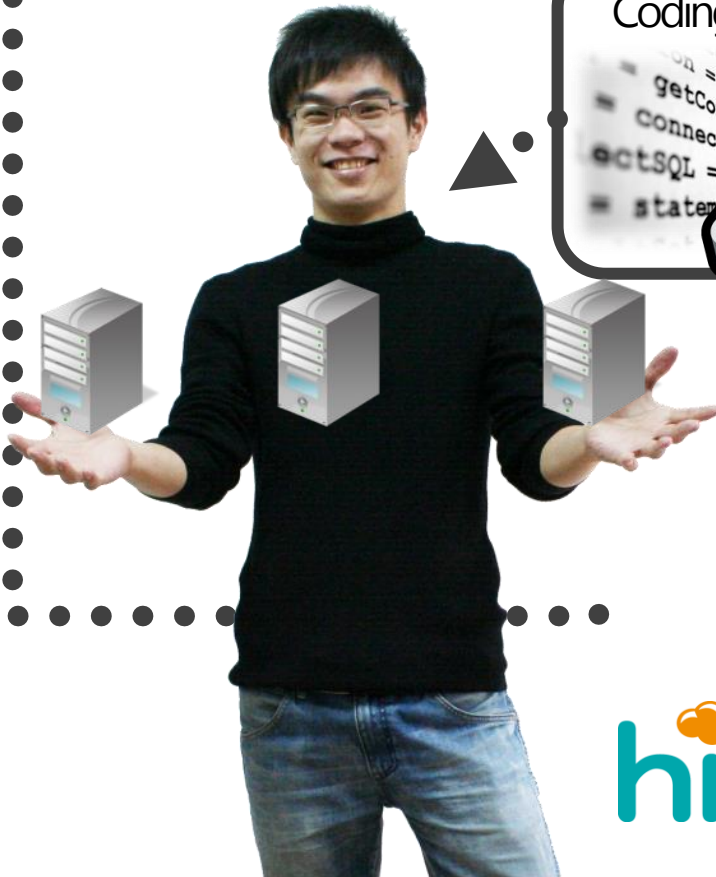
Download  
SDK.  
Download  
API  
directions  
documents.

Coding....

To set up key  
pair and  
environment  
parameters in  
research and  
development  
environment.

CaaS

hidcloud



Enter hidcloud  
to acquire  
Caas API key  
pair.

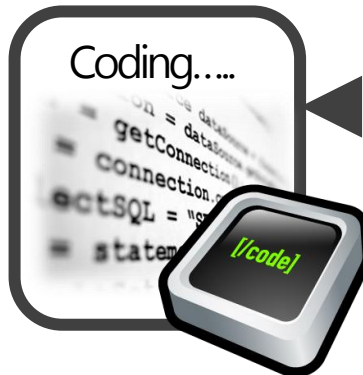
Download  
SDK.  
Download  
API  
directions  
documents

Do you want to  
understand more?  
No problem!

Coding....

To set up key pair  
and environment  
parameters in  
research and  
development  
environment.

CaaS  
API  
hidcloud



**To understand more  
about CaaS API**



# THE EXECUTION OF API ORDER

+ Website for REST service [https://hws.hicloud.hinet.net/cloud\\_hws/api/hws/?](https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=describeInstances&version=2013-03-01)

The screenshot shows a REST client interface. At the top, the Method is set to GET and the URL is `https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=describeInstances&version=2013-03-01`. A red box highlights the query string `?action=describeInstances&version=2013-03-01`, with a callout bubble labeled "Organized query string". Below the URL bar is a "Request Body" section. The "Response" section is expanded, showing four tabs: "Response Headers", "Response Body (Raw)", "Response Body (Highlight)", and "Response Body (Preview)". The "Response Body (Raw)" tab is selected, and the response is displayed as a JSON object. A red box highlights the JSON response, with a callout bubble labeled "Results".

Method: GET URL: `https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=describeInstances&version=2013-03-01` SEND

Body

Request Body

[-] Response

Response Headers Response Body (Raw) Response Body (Highlight) Response Body (Preview)

```
{
  "instanceList": [
    {
      "applyDate": "2013-05-07T09:29:54Z",
      "businessServiceId": "BV55010001008Y",
      "businessTag": "cb168f20-c515-4e41-84cd-830dedfe7f49",
      "endDate": null,
      "ipForNat": "210.61.222.22",
      "ipForVm": "210.61.222.22",
      "name": "risc-test-run",
      "operationStatus": "vm_start",
      "orderUuid": "f91587d1-8a9d-4650-b0df-b0512047d9f4",
      "provisionMessage": "PROVISION_SUCCESS",
      "provisionStatus": "provisionok",
      "startDate": "2013-05-07T09:44:10Z"
    }
  ],
  "requestId": "ff8080813e7cbbf3013e819054d00095"
}
```

# COMMON PARAMETER

- action:API orders to be executed.
- version:Version of the order (Current version:2013-03-29)
- chtAuthType:Authentication mechanism (hwspass)
- expires:The time of the expiration of calling time. ISO8601 time format is adopted YYYY-MM-DDThh:mm:ssZ
- accessKey:accessKey assigned to the customer.
- signature:Captcha, to verify whether the call is legitimate.

# TO APPLY FOR A VM (1/3)

- runInstances Corresponding order of runInstances
  - To use a standard VM template
    - Parameter
      - imageId:VM sample ID e.g. hi-qe4ug9ev
      - instanceType:Computing specification e.g. HC1.XS.LINUX
      - monitoringEnabled
      - instanceName
    - To clone appointed VM
      - Parameter
        - vm id



## Comparison Table of VM Template Number and Computing Specification

Last Update : March,29 2013

The VM template number and computing specification of the parameter runInstances (to apply for VM) is limited. The application can only be successful in the same group match.

VM Template Number	VM Template Description	Computing Specification
hi-olajtpss	CentOS 5,32bit	HC1.M.LINUX HC1.S.LINUX
hi-qe4ug9ev	CentOS 5,32bit	HC1.XS.LINUX
hi-llm5tbhp	CentOS 5.5,64bit	HC1.HIGH-L.LINUX HC1.HIGH-M.LINUX HC1.HIGH-XL.LINUX HC1.L.LINUX HC1.M.LINUX HC1.S.LINUX HC1.XL.LINUX
hi-qzs4ld5q	CentOS 6.3 eng,32bit	HC1.HIGH-L.LINUX HC1.HIGH-M.LINUX HC1.HIGH-XL.LINUX HC1.L.LINUX HC1.M.LINUX HC1.S.LINUX HC1.XL.LINUX
hi-vsyl7rmx	CentOS 6.3 eng,32bit	HC1.XS.LINUX
hi-sll3leq7	CentOS 6.3 eng,64bit	HC1.HIGH-L.LINUX HC1.HIGH-M.LINUX HC1.HIGH-XL.LINUX HC1.L.LINUX HC1.M.LINUX HC1.S.LINUX HC1.XL.LINUX

# TO APPLY FOR A VM (2/3)

Method  URL

**Body**

`action=runInstances&version=2013-03-29&chtAuthType=hwspass&imageId=hi-olajtpss&instanceType=HC1.S.LINUX&monitoringEnabled=true&instanceName=hwstest&count=1&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM`

**[-] Response**

`accessId: SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM  
secretKey: ZTY4MDU5OWQxOGJmNGYOM2EzN2I1ZWUxNDEzOTQxMzM  
expires: 2013-05-09T15:01:44Z  
signature: A1B-C19JoI7wWhM4*kzzdbmHB14  
resultQuery: action=runInstances&version=2013-03-29&chtAuthType=hwspass&imageId=hi-olajtpss&instanceType=HC1.S.LINUX&monitoringEnabled=true&instanceName=hwstest&count=1&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&expires=2013-05-09T15%3A01%3A44Z&signature=A1B-C19JoI7wWhM4*kzzdbmHB14`

Related parameters for the application of VM

Produced order strings.



# TO APPLY FOR A VM (3/3)

The screenshot shows a web browser window with a REST client interface. The Method is GET and the URL is `https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=runInstances&version=2013-03-29&cl`. The Body field is empty, with a callout indicating that the ID of the order should be sent back. The Response section shows a JSON object with the order UUID and request ID. Below this, the hcloud CaaS interface is shown, displaying a list of VMs. The first VM, named '111', is highlighted with a red box, and a callout indicates that this is the order of the new application.

Method: GET URL: `https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=runInstances&version=2013-03-29&cl` SEND

Body: Request Body

To send back the ID of the order

[+] Response

Response Headers Response Body (Raw) Response Body (Highlight) Response Body (Preview)

```
{"orderUuidList":["81a77734-6a55-4703-b299-36bbf938d088"],"requestId":"ff8080813e7cbbf3013e82f3f2b30097"}
```

hcloud » hcloud CaaS

Subscribe Start Up Shut Down Reboot Unsubscribe

VM

Filters Keyword Search

#	Name	Operating Status	Region	ID	Source Image
1	111	Provisioning	Region One		BP55010001A008
2	test0108015	Provisioning	Region One		Application Starter - Clouder...
3	test0108	Provisioning	Region One		Application Starter - hicloud...
4	S3VMtest	Provisioning	Region One		Windows 2008 R2 Standard...
5	test0107	Provisioning	Region One		Application Starter - hicloud...

The order of the new application

# TO INQUIRE FOR THE VM DATA

- To inquire for the VM :describeInstances
  - Parameter
    - **businessServiceId** or **orderId** (If there is no such a parameter, it would inquire for the whole data.)

Method: POST URL: cloud\_hws/api/hwsDemo/generateApiKeySignature?chtAuthType=allpass&hnNo=HN55010005

**Body**

action=describeInstances&version=2013-03-29&chtAuthType=hws�pass&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM

**[-] Response**

Response Headers | Response Body (Raw) | Response Body (Highlight) | Response Body (Preview)

```
accessId: SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM
secretKey: ZTY4MDU5OWQxOGJmNGYOM2EzN2I1ZWUxNDEzOTQxMzM
expires: 2013-05-09T15:36:34Z
signature: CgT9Mdi4Qil7L7XcEmvhtikTtxtk
resultQuery: action=describeInstances&version=2013-03-29&chtAuthType=hws�pass&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&expires=2013-05-09T15:36:34Z&signature=CgT9Mdi4Qil7L7XcEmvhtikTtxtk
```

To inquire for the whole VM.

# RESULTS OF THE INQUIRY

Method GET URL `https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=describeInstances&version=2013-03-` SEND

**Body**

Request Body

**[+] Response**

Response Headers Response Body (Raw) Response Body (Highlight) Response Body (Preview)

```
{"instanceList": [{"applyDate": "2013-05-08T07:03:45Z", "businessServiceId": "BV550100050001", "businessTag": "cb168f20-c515-4e41-84cd-830dedfe7f49", "endDate": null, "ipForNat": "210.61.45.225", "ipForVm": "210.61.45.225", "name": "hwstest", "operationStatus": "vm_start", "orderId": "81a77734-6a55-4703-b299-36bbf938d088", "provisionMessage": "PROVISION_SUCCESS", "provisionStatus": "provisionok", "startDate": "2013-05-08T07:21:47Z"}], "requestId": "ff8080813e7cbbf3013e8313593d0099"}
```

Related VM data

# CLOUD BOSS ENTRY WEBSITE INQUIRIES

hicloud » hicloud CaaS

Language 李端

Subscribe Start Up Shut Down Reboot Unsubscribe Clone Up/Downgrade Rename Template Snapshot 0

VM

All 185

Filters Keyword Search

#	Name	Operating Status	Region	ID	Source Image
1	111	Provisioning	Region One		BP55010001A008
2	test0108015	Provisioning	Region One		Application Starter - Clouder...
3	test0108	Provisioning	Region One		Application Starter - hicloud...
4	S3VMtest	Provisioning	Region One		Windows 2008 R2 Standard...
5	test0107	Provisioning	Region One		Application Starter - hicloud...
6	s3tplCreateVm_0107A	Provisioning	Region One		Windows 2008 R2 Standard...
7	testIP	Provisioning	Region One		Application Starter - hicloud...
8	s3tplCreateVm_01030933	Provisioning	Region One		Windows 2008 R2 Standard...
9	test	Provisioning	Region One		Windows 2008 R2 Standard...
10	s3TemplateToVm	Starting up	Region One		Windows 2008 R2 Standard...
11	s3template vm test	Provisioning	Region Two		Windows 2008 R2 Standard...
12	s3templatevm	Provisioning	Region One		Windows 2008 R2 Standard...
13	1230VMfromS3tpm	Provisioning	Region One		Windows 2008 R2 Standard...
14	1226cloneVMtest	Restoring	Region One		clone 1217
15	clone 1217	Starting up	Region One		Test_VM_01
16	p1216-01-01	Started up	Region One		Windows 2008 R2 Standard...
17	AS_Bridge	Provisioning	Region One		Windows 2008 Standard cht...
18	QQ_1	Provisioning	Region One		Windows 2003 R2 Standard...
19	IT	Provisioning	Region One		test001

VM 44

Storage 7

Network 33

Template 32

Snapshot 6

Auto Scaling Group 63

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# THE OPERATION OF VM

- Starting :startInstances
  - Parameter: businessServiceId (Can be plural)
- Shutting down: stopInstances
  - Parameter: businessServiceId (Can be plural)
- Rebooting : rebootInstances
  - Parameter: businessServiceId (Can be plural.)

# STARTING A VM (1/2)

Method  URL

**Body**

action=startInstances&version=2013-03-29&chtAuthType=hwspass&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&  
businessServiceId=BV550100050001

To start BV550100050 001 VM

**[-] Response**

accessId: SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM  
secretKey: ZTY4MDU5OWQxOGJmNGYOM2EzN2I1ZWUxNDEzOTQxMzM  
expires: 2013-05-09T15:32:48Z  
signature: -MV8fGJlsDf-zRehzCpbX9H57g0  
resultQuery: action=startInstances&version=2013-03-29&chtAuthType=hwspass&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&businessServiceId=BV550100050001&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&expires=2013-05-09T15:32:48Z&signature=-MV8fGJlsDf-zRehzCpbX9H57g0

# STARTING A VM (2/2)

Method  URL

**Body**

Request Body

**[+] Response**

```
{"requestId": "ff8080813e7cbbf3013e831025af0098", "statusMap": {"BV550100050001": "vm_starting"}}
```

To start  
BV5501000500  
01 VM



# SHUTTING DOWN A VM (1/2)

Method  URL

**Body**

action=stopInstances&version=2013-03-29&chtAuthType=hws�pass&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&businessServiceId=BV550100050001

Shutting down order for VM BV550100050001

**[+] Response**

accessId: SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM  
secretKey: ZTY4MDU5OWQxOGJmNGYOM2EzN2I1ZWUxNDEzOTQxMzM  
expires: 2013-05-09T16:31:43Z  
signature: izAUtnu2PvB8pJFRLnC\*G46LwRY  
resultQuery: action=stopInstances&version=2013-03-29&chtAuthType=hws�pass&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&businessServiceId=BV550100050001&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&expires=2013-05-09T16:31:43Z&signature=izAUtnu2PvB8pJFRLnC\*G46LwRY



# SHUTTING DOWN A VM (2/2)

Method: GET URL: [https://hws.hicloud.hinet.net/cloud\\_hws/api/hws/?action=stopInstances&version=2013-03-29&](https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=stopInstances&version=2013-03-29&) SEND

**Body**

Request Body

**[+] Response**

Response Headers Response Body (Raw) Response Body (Highlight) Response Body (Preview)

```
{"requestId": "ff8080813e7cbbf3013e8345ef9c009c", "statusMap": {"BV550100050001": "vm_stopping"}}
```

VM BV550100050001 is shutting down.

# REBOOTING A VM (1/3)

Method  URL

**Body**

action=rebootInstances&version=2013-03-29&chtAuthType=hwspace&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&businessServiceId=BV550100050001

**[+] Response**

accessId: SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM  
secretKey: ZTY4MDU5OWQxOGJmNGYOM2EzN2I1ZWUxNDEzOTQxMzM  
expires: 2013-05-09T16:24:16Z  
signature: Nsc6l3zwqISTIRidcOGvLiQ00Io  
resultQuery: action=rebootInstances&version=2013-03-29&chtAuthType=hwspace&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&businessServiceId=BV550100050001&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&expires=2013-05-09T16%3A24%3A16Z&signature=Nsc6l3zwqISTIRidcOGvLiQ00Io

To reboot VM  
BV550100050  
001

# REBOOTING A VM (2/3)

Method GET URL [https://hws.hicloud.hinet.net/cloud\\_hws/api/hws/?action=rebootInstances&version=2013-03-29](https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=rebootInstances&version=2013-03-29) SEND

**Body**

Request Body

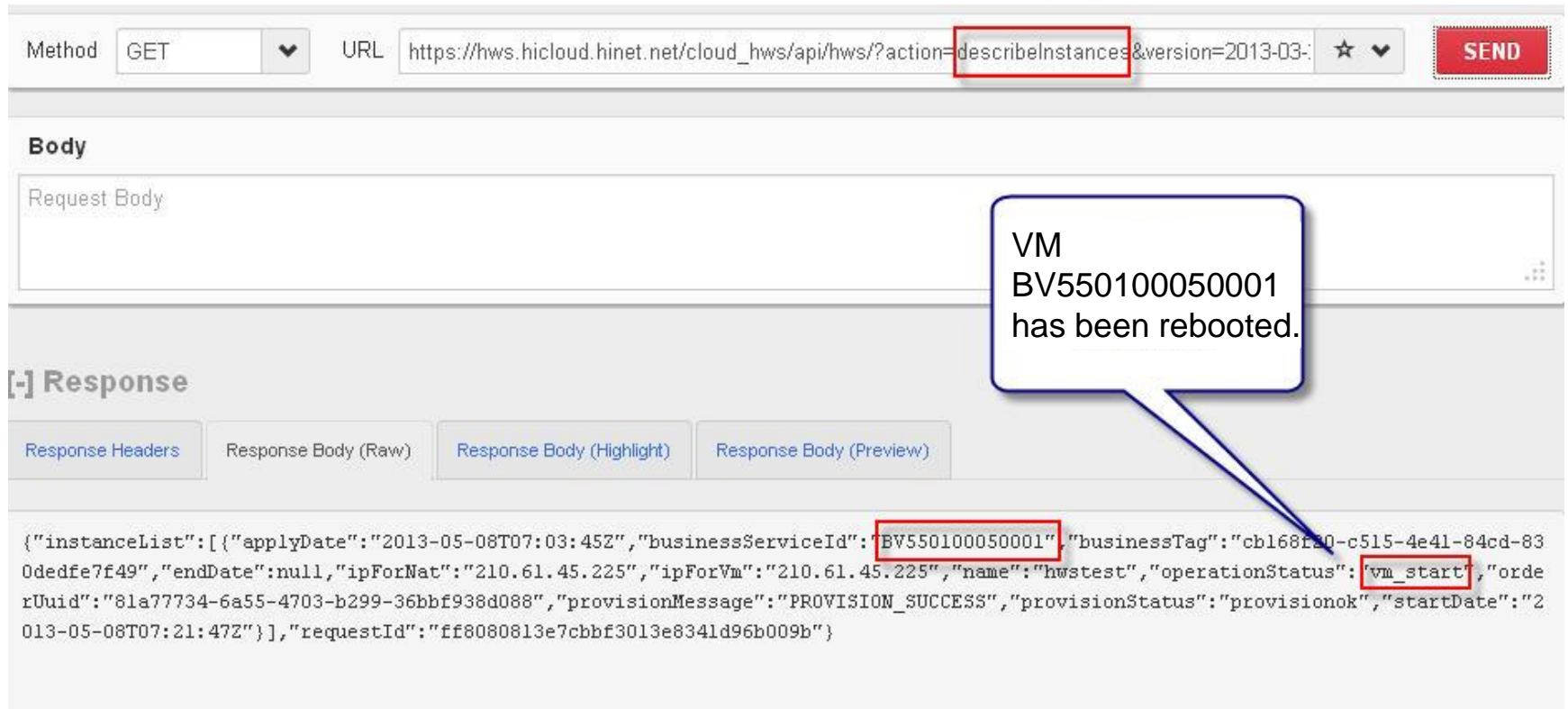
**[+] Response**

Response Headers Response Body (Raw) Response Body (Highlight) Response Body (Preview)

```
{"requestId":"ff8080813e7cbbf3013e833effe9009a","statusMap":{"BV550100050001":"vm_stopping"}}
```

VM  
BV550100050001 is  
shutting down.

# REBOOTING A VM (2/3)



The screenshot shows a REST client interface. The Method is GET and the URL is `https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=describeInstances&version=2013-03-01`. The `describeInstances` part of the URL is highlighted with a red box. A red 'SEND' button is on the right. Below the URL bar is a 'Body' section with a 'Request Body' input field. The '[-] Response' section is expanded, showing four tabs: 'Response Headers', 'Response Body (Raw)', 'Response Body (Highlight)', and 'Response Body (Preview)'. The 'Response Body (Raw)' tab is selected, displaying a JSON response. In the JSON, the `businessServiceId` 'BV550100050001' and the `operationStatus` 'vm\_start' are highlighted with red boxes. A speech bubble points to the `vm_start` status with the text: 'VM BV550100050001 has been rebooted.'

Method GET URL `https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=describeInstances&version=2013-03-01` SEND

Body

Request Body

[-] Response

Response Headers Response Body (Raw) Response Body (Highlight) Response Body (Preview)

```
{
  "instanceList": [
    {
      "applyDate": "2013-05-08T07:03:45Z",
      "businessServiceId": "BV550100050001",
      "businessTag": "chl68f20-c515-4e41-84cd-830dedfe7f49",
      "endDate": null,
      "ipForNat": "210.61.45.225",
      "ipForVm": "210.61.45.225",
      "name": "hwstest",
      "operationStatus": "vm_start",
      "orderId": "81a77734-6a55-4703-b299-36bbf938d088",
      "provisionMessage": "PROVISION_SUCCESS",
      "provisionStatus": "provisionok",
      "startDate": "2013-05-08T07:21:47Z"
    }
  ],
  "requestId": "ff8080813e7cbbf3013e8341d96b009b"
}
```

# VM MONITORING (1/3)

- Related Order :getInstancesStats
  - Paramter: businessServiceId (Can be plural)

The screenshot shows a REST client interface with a POST request to the URL `'cloud_hws/api/hwsDemo/generateApiKeySignature?chtAuthType=allpass&hnNo=HN55010005`. The request body is `action=getInstancesStats&version=2013-03-29&chtAuthType=hwsppass&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&businessServiceId=BV550100050001`. The response body contains the following data:

```
accessId: SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM
secretKey: ZTY4MDU5OWQxOGJmNGYOM2EzN2I1ZWUxNDEzOTQxMzM
expires: 2013-05-09T17:16:08Z
signature: -0d5trJnpho20BYqqbY4wUX7bRY
resultQuery: action=getInstancesStats&version=2013-03-29&chtAuthType=hwsppass&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&businessServiceId=BV550100050001&accessKey=SE41NTAxMDAwNTEzNjc5OTU1MzgWMTM&expires=2013-05-09T17:3A16*3A08Z&signature=-0d5trJnpho20BYqqbY4wUX7bRY
```

A callout box points to the `businessServiceId` parameter in the request body, stating: "To inquire for the monitoring data in VM BV550100050001".

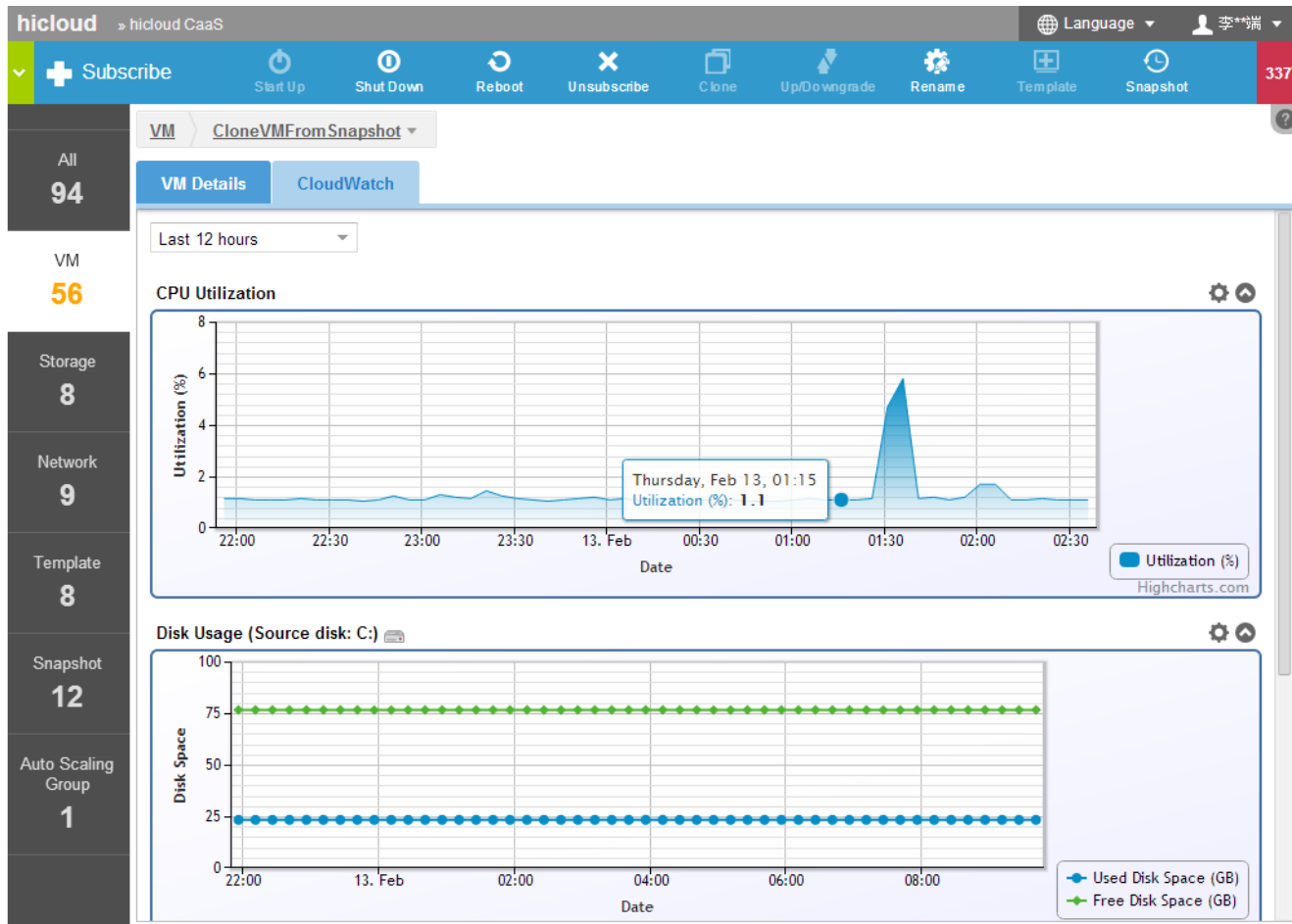
# 虛擬機監控 VM MONITORING (2/3)

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://hws.hicloud.hinet.net/cloud_hws/api/hws/?action=getInstancesStats&version=2013-03-`
- Body:** Request Body (empty)
- Response:** The response body is displayed in the "Response Body (Highlight)" tab. It contains a JSON object with a list of instance stats. The instance ID `BV550100050001` is highlighted in the JSON, and a callout bubble points to it with the text: "The monitoring data in VM BV550100050001".

```
{
  "instanceStatsList": [
    {
      "businessServiceId": "BV550100050001",
      "cpuUpdateTime": "2013-05-08T09:18:10Z",
      "cpuUsage": 1.05,
      "diskUpdateTime": "2013-05-08T09:19:47Z",
      "disks": [
        {
          "diskFree": 9.0090912E7,
          "diskSize": 9.3441296E7,
          "diskUsage": 3.5855496,
          "diskUsed": 3350384,
          "diskLabel": "/"
        }
      ],
      "networkUpdateTime": null,
      "networks": [],
      "powerStatus": "PoweredOn",
      "requestId": "ff8080813e7cbbf3013e836d4f7700a3"
    }
  ]
}
```

# VM MONITORING (3/3)



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# THE SCALE OF FIRST PHASE API IN

- 12 APIs in the first phase include VM, SLB, and CloudWatch. The user can apply for VM and establish scaling mechanism through these basic APIs.

分類 Classification	API Name	Description
VM	runInstances	To build a VM (Clone From Template or VM Service ID can be assigned.)
	terminateInstances	To delete VM.
	rebootInstances	To reboot VM.
	startInstances	To initiate VM.
	stopInstances	To stop VM.
	describeInstances	To inquiry for VM list.
	modifyInstanceAttribute	To upgrade or degrade VM (including the change in CPU or RAM or Cloud Watch).
CloudWatch	getInstancesStats	To acquire the latest data in VM monitoring.
LoadBalancer	describeLoadBalancerPolicies	To inquire for the list of load balancer policies.
	createLoadBalancerPolicy	To create load balancer policies.
	replaceLoadBalancerPolicy	To change load balancer policies.
	deleteLoadBalancerPolicy	To delete load balancer policies.





You can also use it like this...

# EXAMPLE-OO SOFTWARE TESTING COMPANY



- Example: OO Software Company
- Through several testing controller to simulate the high voltage test and stability test on the website for the tested system and find out its function indicator.

It goes through 3-10 days of testing each time. Afterwards, the result would be reported to the customer.

The method of OO software testing project building: Through hicloud CaaS, API would work on fast setup and layout for the VM with testing software.

# Demo of Repetitive Installment Project Environment

To clone the project environment quickly so as to lower the cost.

Security scanning and weakness analysis.

Security scanning and weakness analysis.

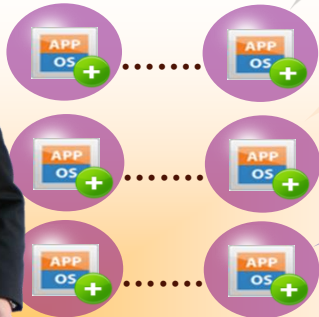
Security scanning and weakness analysis.  
Reliability testing and availability testing.

Customer C:  
Registration Website

Customer B:  
Online Bookstore

Customer A:  
Real Estate Website

hicloud



OO Software Testing Company



# EXAMPLE-XX SECURITIES COMPANY

- Example-XX Securities Company

To use several VM to work on stock exchange. The IP of each VM cannot be the same each day. Each VM can only be used from 8 am to 2 pm each day.

VM should be applied and returned at designated time each day

20-40 VMs are needed each day.

The method of XX Securities Project Establishment :

To call for hicloud regularly each day.

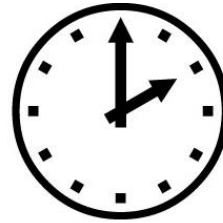
CaaS API installs VM and returns it at designated time.



# To produce VM environment at designated time.

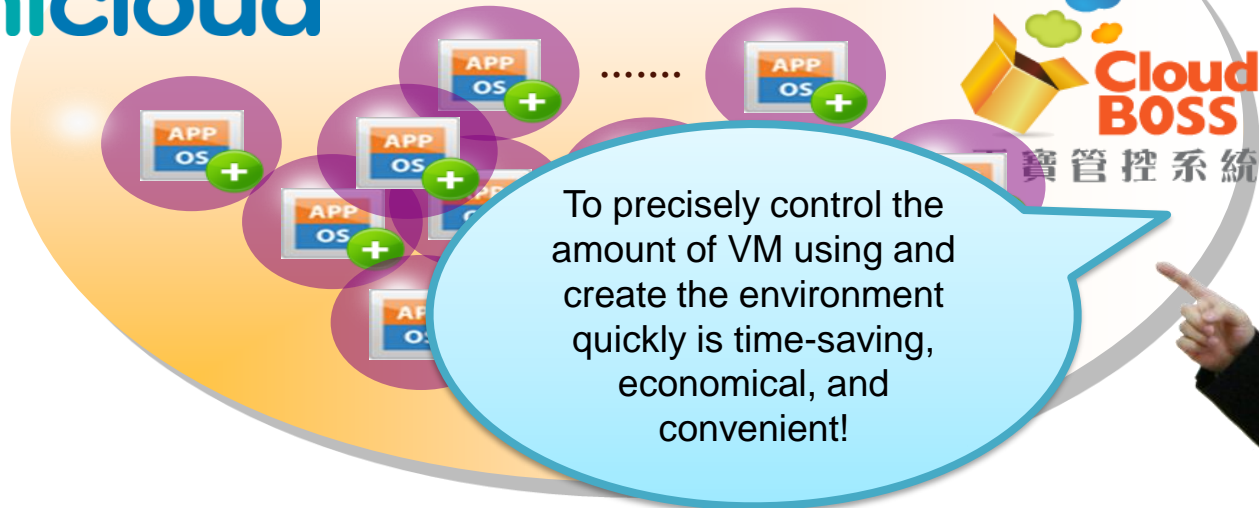


VM To automatically apply for 20 VMs at 7 am every day.



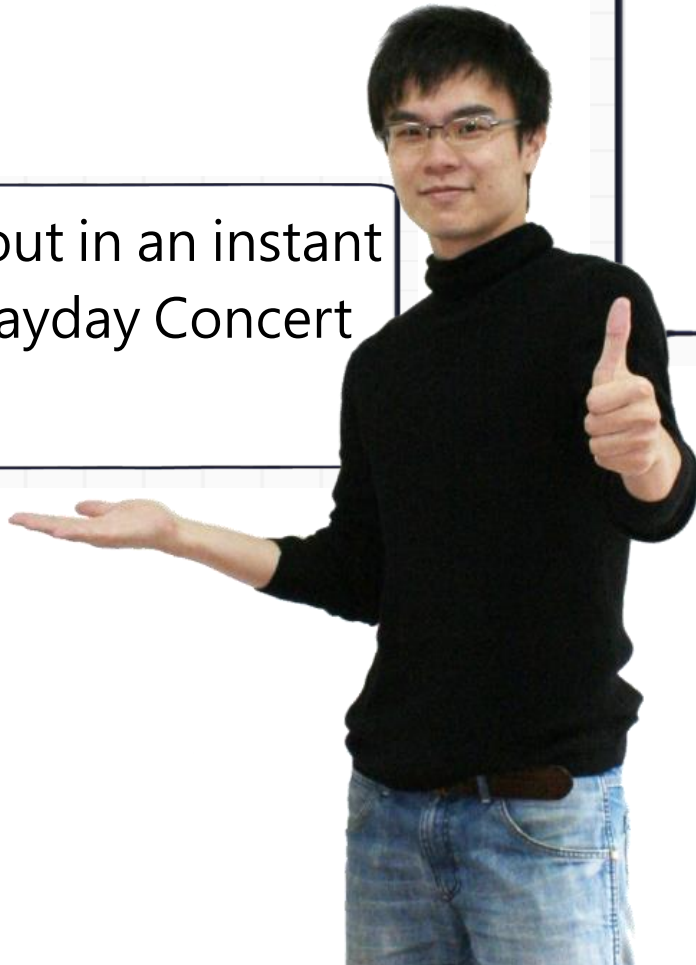
To return every VM at 2 pm every day.

hicloud



# EXAMPLE: YY TICKET BOOKING WEBSITE COMPANY

- Sold-out in an instant
  - Mayday Concert



- To be sold for a while
- Yu-tien's Concert
- The website traffic is not expected to increase. Even if it increases, there is no jam.

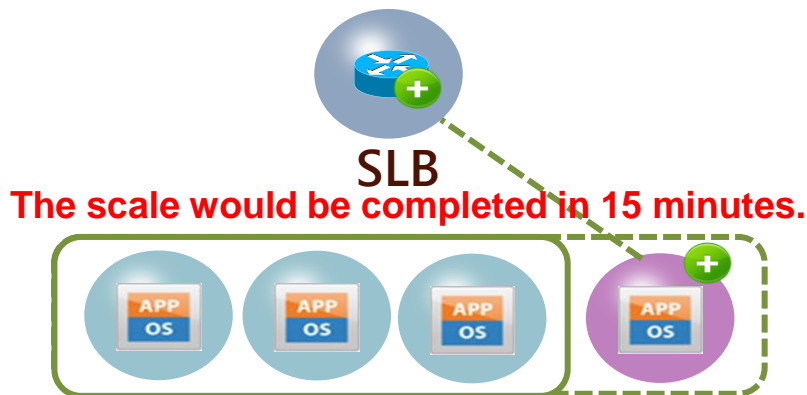
- According to the contract
  - The website traffic would not be jammed, but in order to stabilize the browsing quality, the service standard should be even and the service VM should be automatically extended.



# According to the Contract

## SLA

- The average of CPU utilization every day is more than 60% for a day. Scale out is required.



## hicloud CaaS API

- createLoadBalancerPolicy  
To build load balance service.
- GetInstancesStats  
To check if cpu, mem utilization is much too high.
  - runInstances  
VM To clone VM.
  - replaceLoadBalancerPolicy  
To include VM IP in SLB.
  - StartInstance  
To start VM
- GetInstancesStats  
To check if cpu and mem utilization is too low.
  - StopInstance  
To shut down VM.
  - terminateInstances  
To return VM
  - replaceLoadBalancerPolicy  
To move VM IP out of SLB.



# To be sold for a while

## SLA

- The average of CPU utilization each hour is more than 60% for a hour.

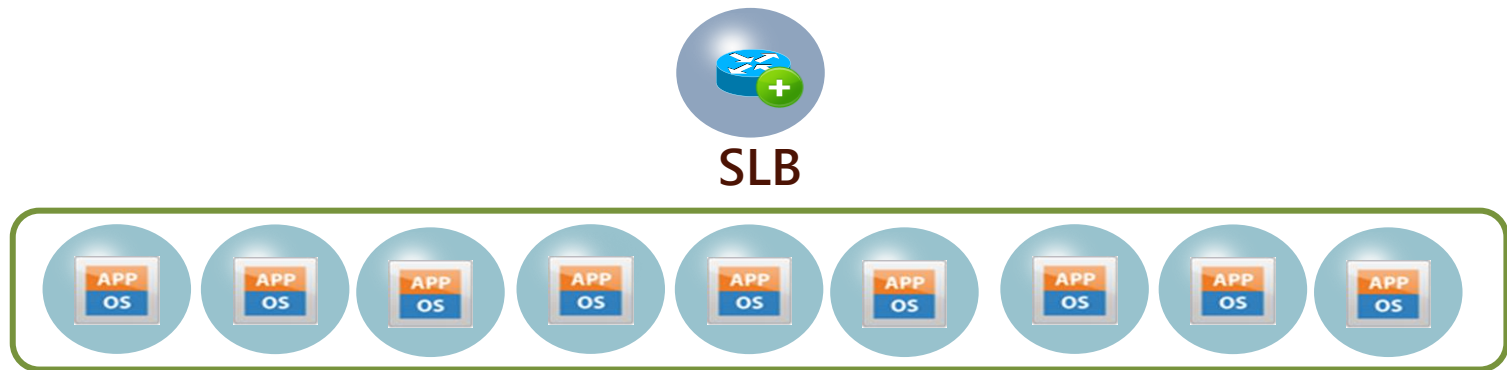


## hicloud CaaS API

- createLoadBalancerPolicy  
To build load balance service.
- runInstances  
To clone VM (without starting VM)
- replaceLoadBalancerPolicy  
To include VM IP in SLB
- To check if cpu and men utilization is too high.  
GetInstancesStatus
  - startInstance  
To start VM (entering the service.

To be sold-out in an instant

**When the time is up,  
prepare for enough VMs!**





**Q&A**



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**For you, we always walk at the  
head of time.**