



# Stratuslab tutorial

## Client usage

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Complete Dynamic Multi-cloud Application Management

- 1) Running a VM
  - a) Appliance selection from the Marketplace
  - b) Appliance usage
- 2) Creating your appliance
- 3) Creating your persistent storage
- 4) Running your appliance

<http://stratuslab.readthedocs.org/en/latest/user-guide/02-quick-start.html>

# Running a VM : appliance selection

## Result

Identifier

## Filter

Scientific Linux

http://marketplace.stratuslab.eu/marketplace/metadata

us vis À la une Info DSI LiveCDCustomizat... UrbiForge UrbiOp... Sytadin JDK 1.7

How to endorse | Upload

## Metadata

Show 10 items Search...

**SL v6.6 x86\_64**

Endorser: images@stratuslab.eu  
Identifier: CMSldsCJ8ThEW4mOT-c2-GwQPdM  
Created: 2015-01-22T09:26:02Z  
Kind: machine

SL 6.6 (SL6.6) base image automatically created by StratusLab. Configured only with a root user. The firewall in the image is disabled, IPv6 is enabled, and SELinux disabled. Allows both standard StratusLab and cloud-init contextualization mechanisms.  
[More...](#)

Status: valid  
Location: all  
Filter: SL  
Search version  
Search arch  
Search endorser  
search kind  
Sort by:

# Running a VM : appliance usage

Appliance Identifier

## 1) Start

```
$> stratus-run-instance CMSIdsCJ8ThEW4mOT-c2-GwQPdM  
:: Machine 1 (vm ID: 4710)  
Public ip: WW.XX.YY.ZZ  
:: Done!
```

## Contextualization

Your key is automatically  
copied to the VM

## 2) Check

```
$> stratus-describe-instance  
id    state    vcpu memory    cpu% host/ip                                name  
4710  Running    1     1572864    8   vm-152.lal.stratuslab.eu one-4710
```

## 3) Connect

```
$> ssh root@WW.XX.YY.ZZ
```

## 4) Stop

```
$> stratus-kill-instance 4710
```

# Creating your appliance (1/4)

1) Select a base image from the Marketplace

(e.g. *CMSIdsCJ8ThEW4mOT-c2-GwQPdM* )

2) Customization

(e.g : we want to run *Apache*)

## 2.1 - Create a custom script (setup.sh)

```
#!/bin/bash
rm -f /lib/udev/rules.d/*net-gen*
rm -f /etc/udev/rules.d/*net.rules
echo "coucou"> /var/www/html/index.html
```

# Creating your appliance (2/4)

## 2.2 - Create the new image

```
$> stratus-create-image \  
    -s setup.sh \           Your customization script  
    -a httpd \             Added package  
    --type m1.xlarge \  
    --comment "image test" \  
    --title "My first image" \  
    --author "Me" \  
    --author-email me@example.org \ Instructions sent by mail  
    CMSIdsCJ8ThEW4mOT-c2-GwQPdM
```

### Output

```
...  
:: Executing user prerecipe  
:: Installing user packages  
:: Executing user scripts
```

## Creating your appliance (3/4)

You will receive a mail, as soon as your appliance is ready.

There is a bug in the provided link.

This link is wrong !

<https://onehost-7.lal.in2p3.fr/pswd/disks/b7302af2-bdb8-44b4-b38c-ebdab770d597>

Please correct by inserting « pdisk/ »

<https://onehost-7.lal.in2p3.fr/pdisk/pswd/disks/b7302af2-bdb8-44b4-b38c-ebdab770d597>

# Creating your appliance (4/4)

Your Appliance  
identifier

StratusLab

Home Disks

## Disk Information

[View mounts](#) for this disk.

UUID	102af2-bdb8-44b4-b38c-ebdab770d597
Size	6
Tag	sl6-httd
Image identifier	Pjr9KwzhPorXunjWzrCkpB4Rt_m
User's count	1
Owner	oleg
Visibility	PRIVATE
Is original (seed)	<input checked="" type="checkbox"/>
Disk type	MACHINE_IMAGE_ORIGIN

Delete

Edit

Logged in as oleg ([logout](#))



# Creating your persistent disk

## A persistent disk is a user storage space

### 1) Create a new (empty) disk

```
$> stratus-create-volume --size=5 --tag=myprivate-disk
```

```
DISK 9c5a2c03-8243-4a1b-a248-0f0d22d948c2
```

### 2) List disks

```
$> stratus-describe-volumes
```

```
:: DISK 9c5a2c03-8243-4a1b-a248-0f0d22d948c2
```

```
    created: 2015/04/10 16:10:37
```

```
    visibility: private
```

```
    tag: myprivate-disk
```

```
    owner: testor1
```

```
    size: 5
```

```
    users: 0
```

# Running your appliance

## Putting all together

### Start

```
$> stratus-run-instance 2jr9KwzhPorXunjWzrCkpB4Rt_m  
  
--persistent-disk 9c5a2c03-8243-4a1b-a248-0f0d22d948c2  
:: Machine 1 (vm ID: 7410)  
Public ip: WW.XX.YY.ZZ  
:: Done!
```

Your appliance Identifier

Your persistent disk Identifier

Connect : <http://WW.XX.YY.ZZ/>

### Stop

```
$> stratus-kill-instance 7410
```