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# **limeade Documentation**

***Release 1.0***

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Willkommen zur Version 1.0 der limeade Dokumentation.



# EINFÜHRUNG

## 1.1 Überblick

limeade ist ein Projekt der SkyLime GbR und wurde von Marc Rochow als Bachelorarbeit bei der Hochschule Augsburg weiterentwickelt.

Das Webinterface stellt eine voll funktionstüchtige Webanwendung dar, die speziell für Webhosting Firmen gedacht ist. Es soll das Verwalten und Administrieren beschleunigen und vereinfachen.

### 1.1.1 Features

Verwalten und Anlegen von

- VHosts
- FTP
- MySQL Datenbanken
- Backups
- Cloud Instanzen
- Domains
- SSL Zertifikaten
- E-mail Adressen, Weiterleitungen und Mailboxen
- VNC

## 1.2 Requirements

- Python == 2.7
- Django >= 1.3
- Node.js >= 0.6

### 1.2.1 weitere Anforderungen

- Celery und django-celery
- pyOpenSSL
- lxml
- Ipy
- libvirt
- RabbitMQ

### 1.2.2 Integrierte Anwendungen (Django)

- South
- django-uni-form

## 1.3 Installation

Der Source Code kann von Github geladen werden. Entweder per direkten Download oder über Git.

```
git clone git@github.com:fatality/limeade.git
```

### 1.3.1 Installation der Anforderungen

Die Installation der Anforderungen wird beispielhaft für **Arch Linux** beschrieben.

#### **Celery und django-celery:**

```
pip2 install -U Celery
pip2 install -U django-celery
```

#### **pyOpenSSL:**

```
pacman -S python2-pyopenssl
```

#### **lxml:**

```
pacman -S python2-lxml
```

#### **Ipy:**

```
pacman -S python2-ipy
```

#### **libvirt:**

Um libvirt und somit auch KVM benutzen zu können, muss der Computer Virtualisierung unterstützen. Dies lässt sich mit folgendem Befehl testen:

```
grep -E "(vmx|svm)" --color=always /proc/cpuinfo
```

Wenn die Ausgabe korrekt ist und der Computer Virtualisierung unterstützt kann libvirt, KVM und QEMU installiert und eingerichtet werden.



```
pacman -S qemu-kvm libvirt dnsmasq virt-manager
```

Um dnsmasq korrekt einzurichten empfiehlt sich folgende diese [Anleitung](#). Libvirt als Normaluser verwenden zu können ist in dieser [Anleitung](#) beschrieben.

### libvirt und TCP:

Die Datei `/etc/libvirt/libvirtd.conf` öffnen und folgende Stellen ändern:

```
listen_tls = 0
listen_tcp = 1
auth_tcp=none
```

Die Deamon Datei `/etc/conf.d/libvirtd` öffnen und den Eintrag `LIBVIRT_ARGS` in `LIBVIRT_ARGS="-listen"` ändern.

Als letzter Schritt die QEMU Konfiguration in libvirt (`/etc/libvirt/qemu.conf`) öffnen und `vnc_listen = "0.0.0.0"` eintragen bzw. den Kommentar entfernen.

Als nächstes kann mittels virt-manager eine VM angelegt werden. Die Daten der VM können im Django Admin später eingetragen werden.

### RabbitMQ:

In den [Arch User Repositories](#) findet sich ein [Paket für RabbitMQ](#) welches installiert werden muss.

Anschließend wird der RabbitMQ als root gestartet:

```
rabbitmq-server
```

Läuft der Server, müssen folgende drei Schritte durchgeführt werden:

```
rabbitmqctl add_user limeade EimequuChuap8aa8ohyo
rabbitmqctl add_vhost limeade
rabbitmqctl set_permissions -p limeade limeade ".*" ".*" ".*"
```

Der Server läuft nun und empfängt Nachrichten, leitet diese aber noch nicht weiter. Dazu muss der Deamon limed mittels Celery gestartet werden. In der `settings.py` müssen dazu noch die Angaben für MySQL gemacht werden, damit völlig automatisch Datenbanken erstellt werden können.

## 1.4 Benutzung

Sollten Node.js, Python, Django und die anderen Abhängigkeiten installiert sein lässt sich die Webanwendung mit Django einrichten. Dazu sollte jedoch eine lokale Konfigurationsdatei erstellt werden. Eine Beispieldatei ist integriert (`local_settings.py.example`).

### 1.4.1 Django

Minimal sollte eine Datenbank angelegt werden und folgender Schritt durchgeführt werden:

```
cd web/limeade
python2 manage.py syncdb --migrate
```

Dies erstellt alle Tabellen in der Datenbank und zugleich auch einen Benutzer mit vollen Adminrechten. Starten lässt sich die Anwendung anschließend lokal mit

```
python2 manage.py runserver
```

Die Webanwendung läuft nun unter <http://127.0.0.1:8000/system/> und kann im Admin mit Daten gefüttert werden (<http://127.0.0.1:8000/admin/>).

### 1.4.2 Node.js Proxy

Der Node.js Proxy wird im *proxy*-Verzeichnis ebenfalls ausgeführt:

```
node index.js
```

### 1.4.3 RabbitMQ und Celery

Zum Abschluss muss RabbitMQ und der Deamon im *limed*-Verzeichnis gestartet werden:

```
rabbitmq-server  
celeryd
```

# API DOKUMENTATION

## 2.1 System

### 2.1.1 Models

Models for limeade system

**class** limeade.system.models.**Contract** (\*args, \*\*kwargs)  
Creates a contract for a person with a product.

#### Parameters

- **person** – the person
- **product** – the product

#### Example

```
>>> from limeade.system.models import Contract
>>> contract = Contract.objects.get(pk=1)
>>> contract
<Contract: Testuser / Testproduct>
```

**has\_add\_permission** (request)  
Returns true if user has permission to add a contract.

**has\_change\_permission** (request, obj)  
Returns true if user has permission to change the contract.

**has\_delete\_permission** (request, obj)  
Returns true if user has permission to delete the contract.

**queryset** (request)  
Returns a filtered queryset by request.

**class** limeade.system.models.**Domain** (\*args, \*\*kwargs)  
Model for a domain, which belongs to a contract.

#### Parameters

- **contract** – the contract
- **name** – the name of the domain

#### Example

```
>>> from limeade.system.models import Domain
>>> domain = Domain.objects.get(pk=1)
>>> domain
<Domain: testdomain.com>
```

---

**Note:** name of domain must be unique

---

**owner()**

Returns the owner of the domain.

**class** limeade.system.models.**Person**(\*args, \*\*kwargs)

Creates a user profile for any registered person.

### Parameters

- **user** – the user stored in django.auth.models.User
- **company** – if available, the company the user belongs to
- **address** – default address of user
- **parent** – persons can have own customers (e.g. reseller > customer)

### Example

```
>>> from limeade.system.models import Person
>>> person = Person.objects.get(pk=1)
>>> person
<Person: Test User (Test Company)>
```

**first\_name()**

Returns the first name of the user.

**last\_name()**

Returns the last name of the user.

**system\_user\_home()**

Returns home directory of the user.

**system\_user\_id()**

Returns the user id.

**system\_user\_name()**

Returns unicode representation of the username.

**username()**

Returns the username of the user.

**class** limeade.system.models.**Product**(\*args, \*\*kwargs)

Defines a product which belongs to a person.

### Parameters

- **name** – name of the product
- **personalized** – true if its, otherwise false
- **owner** – the person who owns this product

### Example

```
>>> from limeade.system.models import Product
>>> product = Product.objects.get(pk=1)
>>> product
<Product: Testproduct>
```

**has\_add\_permission** (*request*)  
Returns true if user has permission to add.

**has\_change\_permission** (*request, obj*)  
Returns true if user has permission to change.

**has\_delete\_permission** (*request, obj*)  
Returns true if user has permission to delete.

**queryset** (*request*)  
Returns a filtered queryset.

`limeade.system.models.create_user_profile` (*sender, instance, created, \*\*kwargs*)  
This function creates a user profile for Django's `get_profile()` method, after the user is registered. This works with signals.

## 2.1.2 Views

Views for limeade system

`limeade.system.views.account` (*request, \*args, \*\*kwargs*)  
Display basic account information.

**Parameters** **request** – the request object

**Returns** the account template

`limeade.system.views.contract_add` (*request, \*args, \*\*kwargs*)  
Add a new contract for a customer.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer

**Returns** template for adding a contract

`limeade.system.views.contract_customize` (*request, \*args, \*\*kwargs*)  
Personalize a plan for a customer.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer
- **contract\_id** – the id of the contract

**Returns** edit form template

`limeade.system.views.contract_delete` (*request, \*args, \*\*kwargs*)  
Remove a contract.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer

- **contract\_id** – the id of the contract

**Returns** redirect to customer view

`limeade.system.views.customer_add(request, *args, **kwargs)`

Form to add a new customer.

**Parameters** **request** – the request object

**Returns** the add a customer template

`limeade.system.views.customer_delete(request, *args, **kwargs)`

Remove a customer.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer

**Returns** redirect to customer list

`limeade.system.views.customer_edit(request, *args, **kwargs)`

Edit details of a customer.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer

**Returns** a edit form template

`limeade.system.views.customer_list(request, *args, **kwargs)`

Show a list of customers.

**Parameters** **request** – the request object

**Returns** the customer template

`limeade.system.views.customer_manage(request, *args, **kwargs)`

Switch the current user to the customer. This allows one to interact with the interface as if one was logged into the customers account.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer

**Returns** redirect to ressources

`limeade.system.views.customer_manage_return(request, *args, **kwargs)`

Return to the original user.

**Parameters** **request** – the request object

**Returns** redirect to ressources

`limeade.system.views.customer_view(request, *args, **kwargs)`

View details of a customer.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer

**Returns** the customer detail template

`limeade.system.views.domain_add(request, slug, contract_id)`

Add a new domain.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer
- **contract\_id** – the id of the contract

**Returns** a edit form template

`limeade.system.views.domain_delete(request, slug, contract_id, domain_id)`

Remove a domain.

**Parameters**

- **request** – the request object
- **slug** – the id of the customer
- **contract\_id** – the id of the contract
- **domain\_id** – the id of the domain

**Returns** redirect to customer view

`limeade.system.views.product_add(request, *args, **kwargs)`

Create a new product. A product is a combination of different limitsets.

**Parameters** **request** – the request object

**Returns** a edit form template

`limeade.system.views.product_delete(request, *args, **kwargs)`

Remove a product.

**Parameters**

- **request** – the request object
- **slug** – the id of the product

**Returns** a edit form template

`limeade.system.views.product_edit(request, *args, **kwargs)`

Edit a product.

**Parameters**

- **request** – the request object
- **slug** – the id of the product
- **next** – redirect to view

**Returns** a edit form template

`limeade.system.views.product_list(request, *args, **kwargs)`

Show a list of products.

**Parameters** **request** – the request object

**Returns** a list of products

`limeade.system.views.ressources(request, *args, **kwargs)`

Display the aggregated ressources available to the current user. This depends on the products a user has subscribed to.

**Parameters** `request` – the request object

**Returns** the ressource template

## 2.2 Web

### 2.2.1 Models

Models for limeade web

**class** `limeade.web.models.DefaultVHost` (*\*args, \*\*kwargs*)  
Saves the default VHost.

**Parameters**

- **doamin** – the foreign key to the domain
- **vhost** – the foreign key to the vhost

**class** `limeade.web.models.HTTPRedirect` (*\*args, \*\*kwargs*)  
Creates http redirects

**Parameters**

- **name** – the name of the redirect
- **doamin** – the associated domain
- **to** – the redirect to

**class** `limeade.web.models.Limitset` (*\*args, \*\*kwargs*)  
Maximum limit available.

**Parameters**

- **products** – the foreign key to the product
- **vhosts** – maximum vhosts
- **redirects** – maximum redirects
- **webspace** – maximum webspace
- **cputime** – maximum cputime

**static utilization** (*user, ressource*)  
Filters specific ressources.

**class** `limeade.web.models.PoolIP` (*\*args, \*\*kwargs*)  
The IP address pool.

**Parameters**

- **ip** – the IP
- **region** – the foreign key to the region

**Example**

```
>>> from limeade.web.models import PoolIP
>>> ip = PoolIP.objects.get(pk=1)
>>> ip
<Person: 127.0.0.1>
```



**class** limeade.web.models.**SSLCert** (\*args, \*\*kwargs)  
Creates SSL Certifications

#### Parameters

- **owner** – the user
- **serial** – the ssl cert
- **valid\_not\_before** – date of valid
- **valid\_not\_after** – date of valid
- **subject** – topic of cert
- **cn** – cert number
- **issuer** – the person
- **cert** – the cert
- **key** – key of the cert
- **ca** – the ca of the cert
- **ip** – the foreign key to the ip

**set\_cert** (cert, key, ca)  
Saves the certification.

**class** limeade.web.models.**VHost** (\*args, \*\*kwargs)  
Creates a vhost.

#### Parameters

- **name** – the name of the Vhost
- **domain** – foreign key to the domain
- **style** – php or python vhost
- **cert** – the ssl cert

#### Example

```
>>> from limeade.web.models import VHost
>>> vhost = VHost.objects.get(pk=1)
>>> vhost
<Person: Test VHost.testdomain.de>
```

limeade.web.models.**get\_vhosts** (user)  
Returns all vhosts that belongs to one user.

## 2.2.2 Views

Views for limeade web

limeade.web.views.**poolip\_add** (request, \*args, \*\*kwargs)  
Adds an IP address.

**Parameters** **request** – the request object

**Returns** an edit form template

`limeade.web.views.poolip_list(request, *args, **kwargs)`  
Lists IP addresses.

**Parameters** `request` – the request object

**Returns** ip address pool template

`limeade.web.views.redirect_add(request, *args, **kwargs)`  
Create a new HTTP redirect.

**Parameters** `request` – the request object

**Returns** an edit form template

`limeade.web.views.redirect_delete(request, *args, **kwargs)`  
Remove a HTTP Redirect.

**Parameters**

- `request` – the request object
- `slug` – the id of the redirect

**Returns** redirect to http redirects list

`limeade.web.views.redirect_edit(request, *args, **kwargs)`  
Edit a HTTP redirect.

**Parameters**

- `request` – the request object
- `slug` – the id of the redirect

**Returns** an edit form template

`limeade.web.views.redirect_list(request, *args, **kwargs)`  
List HTTP redirects.

**Parameters** `request` – the request object

**Returns** list of http redirects

`limeade.web.views.sslcert_add(request, *args, **kwargs)`  
Add a new SSL certificate.

**Parameters** `request` – the request object

**Returns** an edit form template

`limeade.web.views.sslcert_delete(request, *args, **kwargs)`  
Remove a SSL certificate.

**Parameters**

- `request` – the request object
- `slug` – the id of the ssl cert

**Returns** redirects to ssl cert list

`limeade.web.views.sslcert_list(request, *args, **kwargs)`  
List a users SSL certificates.

**Parameters** `request` – the request object

**Returns** a list of ssl certificates

```
limeade.web.views.vhost_add(request, *args, **kwargs)
```

Create a new web-vhost.

**Parameters** `request` – the request object

**Returns** an edit form template

```
limeade.web.views.vhost_catchall_delete(request, *args, **kwargs)
```

Disable catch-all for this domain.

**Parameters**

- `request` – the request object
- `slug` – the id of the vhost

**Returns** redirects to vhost list

```
limeade.web.views.vhost_catchall_set(request, *args, **kwargs)
```

Set this vhost as catch-all for the domain.

**Parameters**

- `request` – the request object
- `slug` – the id of the vhost

**Returns** redirects to vhost list

```
limeade.web.views.vhost_delete(request, *args, **kwargs)
```

Remove a web-vhost.

**Parameters**

- `request` – the request object
- `slug` – the id of the vhost

**Returns** redirects to vhost list

```
limeade.web.views.vhost_edit(request, *args, **kwargs)
```

Edit details of a web-vhost.

**Parameters**

- `request` – the request object
- `slug` – the id of the vhost

**Returns** an edit form template

```
limeade.web.views.vhost_list(request, *args, **kwargs)
```

List of web-vhosts.

**Parameters** `request` – the request object

**Returns** list of web vhosts

## 2.3 MySQL

### 2.3.1 Models

Models for limeade mysql

`class limeade.mysql.models.Limitset (*args, **kwargs)`  
Saves maximum available databases.

**Parameters**

- **product** – the foreign key to the product
- **db** – the maximum databases

## 2.3.2 Views

Views for limeade mysql

`limeade.mysql.views.db_add (request, *args, **kwargs)`  
Form to add a new Database. Each database has a respective user with its own credentials.

**Parameters** **request** – the request object

**Returns** an edit form template

`limeade.mysql.views.db_delete (request, *args, **kwargs)`  
Drop a database.

**Parameters**

- **request** – the request object
- **slug** – the id of the database

**Returns** redirect to the database list

`limeade.mysql.views.db_edit (request, *args, **kwargs)`  
Form to set a new password for the database.

**Parameters**

- **request** – the request object
- **slug** – the id of the database

**Returns** an edit form template

`limeade.mysql.views.db_list (request, *args, **kwargs)`  
Show a list of the users databases.

**Parameters** **request** – the request object

**Returns** a list of databases

**Raises** `TimeoutError`

## 2.4 Mail

### 2.4.1 Models

Models for limeade mail

`class limeade.mail.models.Account (*args, **kwargs)`  
Creates a new mail account

**Parameters**

- **name** – the name of the account

- **domain** – the foreign key to the domain
- **password** – the password of the account

**set\_password** (*password*)

Salt and hashes the password.

**class** limeade.mail.models.**Limitset** (*\*args, \*\*kwargs*)

Creates a limitset.

**Parameters**

- **product** – the foreign key to the product
- **accounts** – the maximum number of mail accounts
- **redirects** – the maximum number of mail redirects
- **mailspace** – the maximum number of space

**static utilization** (*user, ressource*)

Returns the correct ressource.

**class** limeade.mail.models.**Redirect** (*\*args, \*\*kwargs*)

Creates a new mail redirect

**Parameters**

- **name** – the name of the redirect
- **domain** – the foreign key to the domain
- **to** – redirect to

## 2.4.2 Views

Views for limeade mail

limeade.mail.views.**account\_add** (*request, \*args, \*\*kwargs*)

Add a new mail account.

**Parameters** **request** – the request object

**Returns** an edit form template

limeade.mail.views.**account\_delete** (*request, \*args, \*\*kwargs*)

Remove a mail account.

**Parameters**

- **request** – the request object
- **slug** – the id of the account

**Returns** redirects to mail account list

limeade.mail.views.**account\_edit** (*request, \*args, \*\*kwargs*)

Set a new password for an email account.

**Parameters**

- **request** – the request object
- **slug** – the id of the account

**Returns** an edit form template

`limeade.mail.views.account_list(request, *args, **kwargs)`

List all mail accounts of a user.

**Parameters** `request` – the request object

**Returns** a list of mail accounts

`limeade.mail.views.redirect_add(request, *args, **kwargs)`

Create a new mail redirect.

**Parameters** `request` – the request object

**Returns** an edit form template

`limeade.mail.views.redirect_delete(request, *args, **kwargs)`

Remove a mail redirect.

**Parameters**

- `request` – the request object
- `slug` – the id of the redirect

**Returns** redirects to a list of mail redirects

`limeade.mail.views.redirect_edit(request, *args, **kwargs)`

Edit a mail redirect.

**Parameters**

- `request` – the request object
- `slug` – the id of the redirect

**Returns** an edit form template

`limeade.mail.views.redirect_list(request, *args, **kwargs)`

List all mail redirects.

**Parameters** `request` – the request object

**Returns** a list of mail redirects

## 2.5 FTP

### 2.5.1 Models

Models for limeade ftp

`class limeade.ftp.models.Account(*args, **kwargs)`

Creates an ftp account.

**Parameters**

- `name` – the name of the account
- `password` – the password
- `vhost` – the foreign key to the vhost

`save(**kwargs)`

Saves the ftp account.

**set\_password** (*password*)  
Salt and hashes the password.

**class** limeade.ftp.models.**Limitset** (*\*args, \*\*kwargs*)  
Saves the maximum number of ftp accounts.

**Parameters**

- **product** – the foreign key to the product
- **accounts** – maximum number of ftp accounts

**static utilization** (*user, ressource*)  
Returns the correct ressource.

## 2.5.2 Views

Views for limeade ftp

limeade.ftp.views.**account\_add** (*request, \*args, \*\*kwargs*)  
Add a new FTP account.

**Parameters** **request** – the request object

**Returns** an edit form template

limeade.ftp.views.**account\_delete** (*request, \*args, \*\*kwargs*)  
Remove an ftp account.

**Parameters**

- **request** – the request object
- **slug** – the id of the ftp account

**Returns** redirects to a list of ftp accounts

limeade.ftp.views.**account\_edit** (*request, \*args, \*\*kwargs*)  
Change an ftp accounts password.

**Parameters**

- **request** – the request object
- **slug** – the id of the ftp account

**Returns** an edit form template

limeade.ftp.views.**account\_list** (*request, \*args, \*\*kwargs*)  
Show a list of FTP accounts.

**Parameters** **request** – the request object

**Returns** a list of ftp accounts

## 2.6 Cluster

### 2.6.1 Models

Models for limeade cluster

**class** limeade.cluster.models.**Region** (\*args, \*\*kwargs)  
Creates a cluster region.

**Parameters** **name** – name of the region

**class** limeade.cluster.models.**Server** (\*args, \*\*kwargs)  
Creates a cluster server.

**Parameters**

- **hostname** – name of the region
- **ip** – the ip of the server
- **region** – foreign key to cluster region
- **services** – foreign key to cluster service
- **enabled** – indicates if this server is enabled

**class** limeade.cluster.models.**Service** (\*args, \*\*kwargs)  
Creates a cluster service.

**Parameters** **name** – name of the service

## 2.6.2 Views

Views for limeade cluster

limeade.cluster.views.**region\_add** (request, \*args, \*\*kwargs)  
Add a new region to the cluster.

**Parameters** **request** – the request object

**Returns** an edit form template

limeade.cluster.views.**region\_delete** (request, \*args, \*\*kwargs)  
Remove a region from the cluster

**Parameters**

- **request** – the request object
- **slug** – the id of the region

**Returns** redirect to list of regions

limeade.cluster.views.**region\_edit** (request, \*args, \*\*kwargs)  
Edit a region.

**Parameters**

- **request** – the request object
- **slug** – the id of the region

**Returns** an edit form template

limeade.cluster.views.**region\_list** (request, \*args, \*\*kwargs)  
Show a list of regions.

**Parameters** **request** – the request object

**Returns** a list of regions

limeade.cluster.views.**server\_add** (request, \*args, \*\*kwargs)  
Add a new server to the cluster.



**Parameters** **request** – the request object

**Returns** an edit form template

```
limeade.cluster.views.server_delete(request, *args, **kwargs)
```

Remove a server from the cluster.

**Parameters**

- **request** – the request object
- **slug** – the id of the server

**Returns** redirect to server list

```
limeade.cluster.views.server_disable(request, *args, **kwargs)
```

Put a server into maintenance.

**Parameters**

- **request** – the request object
- **slug** – the id of the server

**Returns** redirect to server list

```
limeade.cluster.views.server_edit(request, *args, **kwargs)
```

Edit a server.

**Parameters**

- **request** – the request object
- **slug** – the id of the server

**Returns** an edit form template

```
limeade.cluster.views.server_enable(request, *args, **kwargs)
```

Enable a server after a maintenance is over.

**Parameters**

- **request** – the request object
- **slug** – the id of the server

**Returns** redirect to server list

```
limeade.cluster.views.server_list(request, *args, **kwargs)
```

Show a list of servers.

**Parameters** **request** – the request object

**Returns** a list of servers

## 2.7 Cloud

### 2.7.1 Models

```
class limeade.cloud.models.Instance(*args, **kwargs)
```

Creates a cloud instance

**Parameters**

- **hostname** – the hostname of the instance

- **sshkeys** – foreign key to the ssh keys
- **owner** – the owner of the instance
- **domain** – domain of the instance
- **node** – foreign key to the cloud node
- **active** – indicates if the instance is active
- **mac\_addr** – the mac address of the instance

**generate\_mac\_addr** ()

Creates a mac address.

**save** (\*\*kwargs)

Saves the instance.

**class** limeade.cloud.models.**Limitset** (\*args, \*\*kwargs)

Maximum limit for an cloud instance.

#### Parameters

- **product** – foreign key to the product
- **cpu\_cores** – max number of cpu cores
- **memory** – max number of memory
- **storage** – max number of storage

**static utilization** (user, ressource)

Returns the correct ressource.

**class** limeade.cloud.models.**Node** (\*args, \*\*kwargs)

Creates a new node in the cloud.

#### Parameters

- **name** – the name of the node
- **uri** – the unique resource identifier of the node

**class** limeade.cloud.models.**SSHKey** (\*args, \*\*kwargs)

Creates a SSH Key for the cloud instance.

#### Parameters

- **comment** – comment for this key
- **key** – the ssh key
- **owner** – the owner of this key

## 2.7.2 Views

Views for limeade cloud API calls

limeade.cloud.views.api.**instance\_activate** (request)

Called when an instance is done provisioning.

**Parameters** **request** – the request object

Requires two GET Parameters:

- **site\_api\_key**: for security reasons

- **instance**: ID of the instance to activate

**Returns** a http response with data

```
limeade.cloud.views.api.instance_info(request, slug)
```

Returns information an instance can use to configure itself.

**Parameters**

- **request** – the request object
- **slug** – the mac address of the instance

It includes:

- the hostname
- SSH Keys

**Returns** a http response with data

Views for limeade cloud Instances

```
limeade.cloud.views.instance.instance_add(request, *args, **kwargs)
```

View for adding a new instance.

**Parameters** **request** – the request object

**Returns** an edit form template

```
limeade.cloud.views.instance.instance_delete(request, *args, **kwargs)
```

Delete a instance.

**Parameters**

- **request** – the request object
- **slug** – the id of the instance

**Returns** redirect to a list of cloud instances

```
limeade.cloud.views.instance.instance_list(request, *args, **kwargs)
```

Show a list of the current users instances.

**Parameters** **request** – the request object

**Returns** list of instances

```
limeade.cloud.views.instance.instance_restart(request, *args, **kwargs)
```

Restart a instance.

**Parameters**

- **request** – the request object
- **slug** – the id of the instance

**Returns** redirect to a list of cloud instances

```
limeade.cloud.views.instance.instance_start(request, *args, **kwargs)
```

Start a instance.

**Parameters**

- **request** – the request object
- **slug** – the id of the instance

**Returns** redirect to a list of cloud instances

`limeade.cloud.views.instance.instance_stop(request, *args, **kwargs)`  
Stop a instance.

**Parameters**

- **request** – the request object
- **slug** – the id of the instance

**Returns** redirect to a list of cloud instances

Views for limeade cloud SSH Keys

`limeade.cloud.views.ssh.sshkey_add(request, *args, **kwargs)`  
Form to add a new SSH Key.

**Parameters** **request** – the request object

**Returns** an edit form template

`limeade.cloud.views.ssh.sshkey_delete(request, *args, **kwargs)`  
Delete a SSH Key.

**Parameters**

- **request** – the request object
- **slug** – the id of the ssh key

**Returns** redirect to a list of ssh keys

`limeade.cloud.views.ssh.sshkey_list(request, *args, **kwargs)`  
Show a list of the Users SSH Keys.

**Parameters** **request** – the request object

**Returns** a list of ssh keys

Views for limeade cloud VNC

`limeade.cloud.views.vnc.instance_vnc(request, *args, **kwargs)`  
Lets view the authenticated user a VNC console.

**Parameters**

- **request** – the request object
- **slug** – the virtual machine id

**Returns** the vnc template

**Raises** DoesNotExist

`limeade.cloud.views.vnc.instance_vnc_auth(request, slug, token)`  
API call for websocket to tcp proxy to get the settings.

**Parameters**

- **request** – the request object
- **slug** – the virtual machine id
- **token** – the session id from the requesting user

**Returns** dictionary containing proxy settings

**Raises** ObjectDoesNotExist

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Benötigten Informationen nicht gefunden? Versuche es im Index oder probiere die Suchfunktion:

- *genindex*
- *search*



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