

Page No.	1
Date	

## IM: Identity management in private cloud

### Theory:

#### ① Identity management

- 1) Identity management (IM) is a term that refers to information systems being used within the enterprise.
- 2) This represents the systematic management of any single identity and provides authentication, privileges, authorization and roles of the enterprise boundaries
- 3) The primary purpose is to upgrade security and productivity by decreasing total cost, repetitive tasks, and system downtime
- 4) Identity management in cloud computing covers all types of users who can work with defined devices under different circumstances

#### ② Additional security services provided:

- 1) Access control
- 2) Password manager
- 3) Digital identity management
- 4) Single sign-on

#### ③ Benefits of IM in cloud security

- 1) Enhanced network abilities: IM makes it simple in sharing the network capabilities with a complete grid of users who were connected with it.

- 2) Provides a secure collaboration : SaaS protocol is designed and utilized as a hub for connecting with all virtual networks of suppliers, distributors and trading partners
- 3) Support on demand improvement : The problem that affects from chain protects organizations with a cloud based solution. All experts can be able to provide 24x7 hours support and monitoring whenever needed.
- 4) Increase overall productivity : It is completely known that cloud based services are configured and hosts by service providers. This may also get a little or zero hassle either for users or any other client. As a result, many organizations can improve overall productivity
- 5) Centralized management system : Business users can be able to manage all services and programs at one place with cloud-based services. Identity management can be done with one click on a single dashboard
- 6) Reduced IT costs : Identity management handles automatic provisioning, providing or revoking user access rights to systems and applications. Provisioning happens whether you automate it or not .

#### (4) sharing an IAM in a private cloud:

- 1) Today, organizational structures can be very complex. Large organizations are often split into separate business units which can operate very differently.
- 2) To reduce costs and improve security and governance many organizations are now looking to harmonize processes across their entire business.
- 3) A shared service IAM solution is a private cloud where the main advantage is that organizations only need to buy a unique license for a solution that is centrally hosted and administered.

#### (5) Identity provider (Idp)

- 1) An identity provider is a product or service that helps manage identity. An Idp often handles the actual login process.
- 2) single sign on (SSO) providers fit into this category.

#### (6) Identity as a service (IDaaS)

- 1) It is a cloud service that verifies identity.
- 2) It is a SaaS offering from cloud vendor, a way of partially outsourcing identity management.
- 3) IDaaS can be part of IAM framework, or it can be the whole IAM system.

Page No.	4
Date	

### Conclusion:

Identity management is important for controlling access to resources, i.e., authorization.

Eucalyptus - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Eucalyptus https://192.168.32.61:8443

EUCALYPTUS admin@eucalyptus ▾

QUICK LINKS

- System Management
  - Start
  - Service Components
- Identity Management
  - Accounts
  - Groups
  - Users
  - Policies
  - Keys
  - Certificates
- Resource Management
  - Images
  - VmTypes
  - Usage Report

START GUIDE

Welcome to your Eucalyptus-Powered Cloud

Following are some quick guides to the things you can do with your cloud's Web dashboard.

MANAGE IDENTITIES AND YOUR PROFILE

- View or change your personal profile details
- Show your account's groups
- Show the keys you have
- Show all accounts under your management
- Show your account's users

MANAGE CLOUD SERVICES AND RESOURCES

- View and configure cloud service components
- View and configure virtual machine types
- Download and view images
- Generate cloud resource usage report

DOWNLOAD TOOLS FROM EUCALYPTUS

Eucalyptus-compatible Tools

LOG Eucalyptus 3.4.0

Password changed

Eucalyptus - Mozilla Fir...

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Eucalyptus

https://192.168.32.61:8443/#account:

# EUCALYPTUS

admin@eucalyptus ▾

QUICK LINKS

- System Management
  - Start
  - Service Components
- Identity Management
  - Accounts
  - Groups
  - Users
  - Policies
  - Keys
  - Certificates
- Resource Management
  - Images
  - VmTypes
  - Usage Report

+ New account - Delete accounts

New users New groups Add policy Approve Reject

ID	Name	Registration status
874337732029	eucalyptus	CONFIRMED
941348050375	demo	CONFIRMED

Use 'Ctrl' or 'Shift' for multiple selections.

1-2 of 2

Eucalyptus - Mozilla Fir...

Applications Places System Eucalyptus Mozilla Firefox Mon Feb 3, 11:40 AM Cloud Control

Eucalyptus - Mozilla Firefox

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Eucalyptus https://192.168.32.61:8443/#user: Google

**EUCALYPTUS** admin@eucalyptus ▾

QUICK LINKS

- System Management
  - Start
  - Service Components
- Identity Management
  - Accounts
  - Groups
  - Users**
  - Policies
  - Keys
  - Certificates
- Resource Management
  - Images
  - VmTypes
  - Usage Report

**USERS**

ID	Name	Path	Owner account	Enabled	Registration status
AIDNR6ZGТИКМ7QS7EPRQ	admin	/	eucalyptus	true	CONFIRMED
AIDJBE6U1FAOTINRVZBST	admin	/	demo	true	CONFIRMED

Use 'Ctrl' or 'Shift' for multiple selections.

LOG Eucal

Eucalyptus - Mozilla Fir...

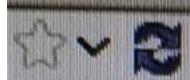
PROPERTIES [X]

ID	AKI4HJ7GJ8NETEV09RPU
Secret key	RfKVn8wPwyaLScjijqsxagdjGqODZOkB[Hv
Active	<input checked="" type="checkbox"/>
Creation date	2020-01-28 14:29:28.44
<u>Owner</u>	

 Save

 LOG | Eucalyptus 3.4.0





## PROPERTIES [X]

*ID*

AKGOCZCJ5FGHXL00FQ4QH

*Active**Creation date*Owner

-----BEGIN CERTIFICATE-----

MIIDNDCCAh ygAwIBAgIGBHL9IFZ/MA0  
GCSqGSIb3DQEBDQUAMEExCzAJBgNVBA  
YT*PEM*A1VTMQ0wCwYDVQQKEwRVc2VyMRMwEQY  
DVQQLEwpFdWNhbHlwdHVzMQ4wDAYDVQ  
QD  
EwVhZG1pbjAeFw0yMDAxMjgwOTAwMjI  
aFw0yNTAxMjgwOTAwMjIaMEEExCzAJBg

Save



account — Delete accounts

ACCOUNTS

New users New groups Add policy Approve Reject

Name	Registration status
eucalypt	CONFIRMED
demo	CONFIRMED

Create new groups

Enter information to create new groups (using semicolon to separate names):

Group names D17A\_B

Group path D17A\_B

Cancel OK

or 'Shift' for multiple selections. ← → 1-2 of 2 ↵ ↶

Eucalyptus - Mozilla Firefox

Eucalyptus View History Bookmarks Tools Help

https://192.168.32.61:8443/#group:

CALYPTUS admin@eucalyptus ▾

QUICK LINKS

- System Management
- Start
- Service Components
- Entity Management
- Accounts
- Groups
- Users
- Policies
- Keys
- Certificates
- Resource Management
- Images
- VmTypes
- Usage Report

GROUPS

ID	Name	Path	Owner account
AGPE8U6GZZZQDCEV	D17A_B	/D17A_B	eucalyptus

Add users to selected groups

Enter users to add to selected groups (using semicolon to separate names):

User names: admin

Cancel OK

Use 'Ctrl' or 'Shift' for multiple selections. 1-1 of 1

The screenshot shows the Eucalyptus management interface. On the left, there's a sidebar with various management links like System Management, Accounts, Groups, and Policies. The 'Groups' link is currently selected and highlighted in yellow. The main content area shows a table of groups with columns for ID, Name, Path, and Owner account. One group, 'D17A\_B', is selected and highlighted in orange. A modal dialog box is overlaid on the page, titled 'Add users to selected groups'. It contains a text input field with the placeholder 'Enter users to add to selected groups (using semicolon to separate names)' and another input field labeled 'User names' containing the value 'admin'. At the bottom right of the modal are two buttons: 'Cancel' and 'OK', with 'OK' being the active button as indicated by the cursor.

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edit View History Bookmarks Tools Help

eucalyptus

https://192.168.32.61:8443/#group:userId=AIDNR6ZGTLKCM7QS7EPRQ

Google

**EUCALYPTUS** admin@eucalyptus ▾

QUICK LINKS

System Management

Start

Service Components

Identity Management

Accounts

Groups

Users

Policies

Keys

Certificates

Resource Management

Images

VmTypes

Usage Report

Use 'Ctrl' or 'Shift' for multiple selections.

GROUPS

ID	Name	Path	Owner account
AGPE8U6GZZQDCEV	D17A_B	/D17A_B	eucalyptus

PROPERTIES [X]

Name	D17A_B
Path	/D17A_B
ARN	arn:aws:iam::874337732029:group/D17A_B
Owner account	<a href="#">eucalyptus</a>
Member users	<a href="#">Edit</a>
Polices	<a href="#">Edit</a>

Save

Eucalyptus - Mozilla Fir...

admin@eucalyptus ▾



ACCOUNTS

New account  Delete accounts

New users

New groups

Add policy

Approve

Reject

Name

ID	Name	Registration status
874337732029	eucalypt	CONFIRMED
941348050375	demo	CONFIRMED

Registration

Member u

Member g

Policies

Create new users

Enter information to create new users (using semicolon to separate names):

User names

B\_batch

User path

/B\_batch|

Cancel

OK

Use 'Ctrl' or 'Shift' for multiple

ed to add policy all\_allow for user AIDNR6ZGTLKCM7QS7EPRQ: Failed to add policy all\_allow to user AIDNR6ZGTLKCM7QS7EPRQ: Policy v  
unt/account admin

d to add policy all\_allow for user AIDNR6ZGTLKCM7QS7EPRQ: Failed to add policy all\_allow to user AIDNR6ZGTLKCM7QS7EPRQ: Policy v  
unt/account admin

: admin are added to groups [AGPE8U6GZZQDCEVMRQ7S]

admin@eucalyplus ▾



## USERS

[Delete users](#) [Add to groups](#) [Remove from groups](#) [Add policy](#) [Add key](#) [Add certificate](#) [Approve](#) [X](#)

## ID

AIDNR6ZG7IKCM7QS7  
 AIDG7CTUQFIM6YQOV  
 AIDJBE6U1FAOTINRV2

## Add new policy

Enter new policy to assign to the selected user:

## Policy name

all\_allow

## Policy content

```
{
  "Version": "2020-02-03",
  "Statement": [
    {
      "Sid": "AIDG7CTUQFIM6YQ0WVCXJ",
      "Effect": "Allow",
      "Action": "*",
      "Resource": "*"
    }
  ]
}
```

 Cancel OK

S7EPRQ: Policy with A

ew users [B\_batch] created for account

ailed to add policy all\_allow for user AI  
ccount/account adminailed to add policy all\_allow for user AIDNR6ZG7IKCM7QS7EPRQ: Failed to add policy all\_allow to user AIDNR6ZG7IKCM7QS7EPRQ: Policy with A  
ccount/account admin

ers admin are added to groups [AGPE8U6GZZZQDCEVMRQ7S]

ew groups [D17A\_B] created for account 874337732029

Identity Management

- Accounts
- Groups
- Users**
- Policies
- Keys
- Certificates

Resource Management

AIDNR6ZG7IKCM7QS7 admin /  
AIDG7CTUQFIM6YQOV B\_batch /B\_batch  
AIDJBE6U1FAOTINRVZ admin /

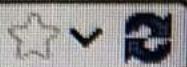
Use 'Ctrl' or 'Shift' for multiple selections.

1-3 of 3

2020 Feb 3 11:57:58	<b>i</b>	New policy all_allow is added to user AIDG7CTUQFIM6YQOWVCXJ
2020 Feb 3 11:56:18	<b>i</b>	New users [B_batch] created for account 874337732029
2020 Feb 3 11:54:37	<b>x</b>	Failed to add policy all_allow for user AIDNR6ZG7IKCM7QS7EPRQ: Failed to add policy/account/account admin
2020 Feb 3 11:52:14	<b>x</b>	Failed to add policy all_allow for user AIDNR6ZG7IKCM7QS7EPRQ: Failed to add policy/account/account admin
2020 Feb 3 11:43:42	<b>i</b>	Users admin are added to groups [AGPE8U6GZZQDCEVMRQ7S]

Policy added

Eucalyptus - Mozilla Fir...



Google



## PROPERTIES [X]

*Name*

all\_allow

*Version*

2020-02-03

*Owner*

{

```
"Version": "2020-02-03",
"Statement": [{  
    "Sid": "AIDG7CTUQFIM6YQ0WVCXJ",  
    "Effect": "Allow",  
    "Action": "*",  
    "Resource": "*"  
}]  
}
```

*Policy text*

Save

Users

	<input type="checkbox"/> Delete users	<input type="checkbox"/> Add to groups	<input type="checkbox"/> Remove from groups	<input type="checkbox"/> Add policy	<input type="checkbox"/> Add key	<input type="checkbox"/> Add certificate	<input checked="" type="checkbox"/> Approve	<input type="checkbox"/>
	Name	Path		Owner account	Enabled	Registration status		
IDNR6ZGTIKCM7QS7	admin	/		eucalyptus	true	CONFIRMED		
IDG7CTUQFIM6YQOV	B_batch	/B_batch		eucalyptus	true	CONFIRMED		
IDJBE6U1FAOTINRVZ	admin	/		demo	true	CONFIRMED		

Add access key for the selected user

Are you sure to add key for the following selected user?

AIDG7CTUQFIM6YQOWVCXJ      B\_batch

Cancel       OK

Ctrl' or 'Shift' for multiple selections.

allow is added to user AIDG7CTUQFIM6YQOWVCXJ  
 [batch] created for account 8743377:  
 policy all\_allow for user AIDNR6ZGTIKCM7QS7EPRQ:  
 admin  
 policy all\_allow for user AIDNR6ZGTIKCM7QS7EPRQ: Failed to add policy all\_allow to user AIDNR6ZGTIKCM7QS7EPRQ: P  
 admin  
 e added to groups [AGPE8U6GZZQDCEVMRQ7S]

Eucalyptus - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Eucalyptus https://192.168.32.61:8443/#key:

**EUCALYPTUS** admin@eucalyptus ▾

QUICK LINKS

- System Management
  - Start
  - Service Components
- Identity Management
  - Accounts
  - Groups
  - Users
- Policies
- Keys**
- Certificates

Use 'Ctrl' or 'Shift' for multiple selections.

ACCESS KEYS

ID	Active	Owner account	Owner user
AKI4HJ7GJ8NETEV09R	true	eucalypt	admin
AKIAKRJ7QAMSMXY4F	true	eucalypt	B_batch
AKIRZIJFEIOU5U3ZYDN	true	demo	admin

PROPERTIES [X]

ID	AKIAKRJ7QAMSMXY4F
Secret key	y7Kf2Fyv8ZtKnXgOrNg
Active	<input checked="" type="checkbox"/>
Creation date	2020-02-03 11:59:00.18
Owner	

Save

2020 Feb 3 11:59:00 i New access key is added to user AIDG7CTUQFIM6YQOWVCXJ

2020 Feb 3 11:57:58 i New policy all\_allow is added to user AIDG7CTUQFIM6YQOWVCXJ

2020 Feb 3 11:56:18 i New users [B\_batch] created for account 874337732029

2020 Feb 3 11:54:37 e Failed to add policy all\_allow for user AIDNR6ZGTIKCM7QS7EPRQ: Failed to add policy all\_allow to user AIDNR6ZGTIKCM7QS7EPRQ: Policy with Allow effect can not be assigned account/account admin

2020 Feb 3 11:52:14 e Failed to add policy all\_allow for user AIDNR6ZGTIKCM7QS7EPRQ: Failed to add policy all\_allow to user AIDNR6ZGTIKCM7QS7EPRQ: Policy with Allow effect can not be assigned account/account admin

access key added

Eucalyptus - Mozilla Fir...

S Accounts

Groups

**Users**

Policies

Keys

Certificates

Resource Management

AIDJBE6U1FAOTINRVZ admin /

Use 'Ctrl' or 'Shift' for multiple selections.

1-3 of 3

2020 Feb 3 11:59:00	<span style="color: blue;">i</span>	New access key is added to user AIDG7CTUQFIM6YQOWVCXJ
2020 Feb 3 11:57:58	<span style="color: blue;">i</span>	New policy all_allow is added to user AIDG7CTUQFIM6YQOWVCXJ
2020 Feb 3 11:56:18	<span style="color: blue;">i</span>	New users [B_batch] created for account 874337732029
2020 Feb 3 11:54:37	<span style="color: red;">✖</span>	Failed to add policy all_allow for user AIDNR6ZGTIKCM7QS7EPRQ: Failed to add account/account admin
2020 Feb 3 11:52:14	<span style="color: red;">✖</span>	Failed to add policy all_allow for user AIDNR6ZGTIKCM7QS7EPRQ: Failed to add account/account admin

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Eucalyptus - Mozilla Firefox

卷之三

Remove from groups Add policy Add key Add certificate Approve

## Add new policy

Enter new policy to assign to the selected user:

### Policy name

keep alive

```
{  
    "Version": "2020-03-02",  
    "Statement": [  
        {"Sid": "AIDG7CTUQFIM6YQ0WVCXJ",  
         "Effect": "Allow",  
         "Action": "ec2:RunInstances",  
         "Resource": "*",  
         "Condition": {  
             "NumericEquals": {},  
             "ec2:KeepAlive": "5",  
         }  
    ]  
}
```

## **Policy content**

\* Cancel

OK

User AIDG7CTUQFIM6YQOWVCXJ: Failed to add policy keep\_alive to user AIDG7CTUQFIM6YQOWVCXJ-01. "Statement": [ { "Sid": "AIDG7CTUQFIM6YQOWVCXJ", "Effect": "Allow", "Action": "ec2:RunInstances" } ]

Service Components

Identity Management

Accounts

Groups

Users

Policies

Keys

Certificates

Resource Management

AIDNR6ZGTIKCM7QS7 admin /  
AIDG7CTUQFIM6YQOWVCXJ B\_batch /B\_batch  
AIDJBE6U1FAOTINRVZ admin /

Use 'Ctrl' or 'Shift' for multiple selections.

13 of 3

Date	Event Type	Message
2020 Feb 3 12:18:43	i	New policy keep_alive is added to user AIDG7CTUQFIM6YQOWVCXJ
2020 Feb 3 12:17:27	i	Policy 4028a0bd7009a6ea017009ca699c0007 deleted
2020 Feb 3 12:13:45	i	New policy keep_alive is added to user AIDG7CTUQFIM6YQOWVCXJ
2020 Feb 3 12:12:40	x	Failed to add policy keep_alive for user AIDG7CTUQFIM6YQOWVCXJ: Failed to character 242 of { "Version":"2020-03-02", "Statement":{ "Sid":"AIDG7CTUQFIM6YQOWVCXJ", "ec2:KeepAlive":"1440", } }
2020 Feb 3 12:09:46	x	Failed to add policy keep_alive for user AIDG7CTUQFIM6YQOWVCXJ: Failed to character 241 of { "Version":"2011-04-01", "Statement":{ "Sid":"AIDG7CTUQFIM6YQOWVCXJ", "ec2:KeepAlive":"1440", } }

policy added

Focalvntus - Mozilla Firefox

Eucalyptus - Mozilla Firefox

History Bookmarks Tools Help

ps://192.168.32.61:8888/#instance

Launch new instance More actions ▾

1 instances found. Showing: 10 | 25 | 50 | 100

<input type="checkbox"/> INSTANCE	STATUS	IMAGE ID	AVAILABILITY ZONE	PUBLIC ADDRESS	PRIVATE ADDRESS	KEY NAME	SECURITY GROUP	LAUNCH TIME
<input type="checkbox"/> <input checked="" type="checkbox"/> instance1		emi-7A3E36C8	CLUSTER01	192.168.32.63	172.31.255.157	key1	default	2020-02-03T06:54:32Z

General Volumes Tags

INSTANCE NAME instance1	INSTANCE ID i-1EEE40F3	STATUS running	AVAILABILITY ZONE CLUSTER01	PUBLIC ADDRESS 192.168.32.63	PUBLIC HOSTNAME 192.168.32.63
KEY NAME key1	SECURITY GROUP default	INSTANCE TYPE m1.small	LAUNCH TIME 12:24:32 PM Feb 3rd 2020	IMAGE ID emi-7A3E36C8	IMAGE NAME d6b32e5a-ks-centos6-202001281419
SCALING GROUP	LOAD BALANCER	OS linux	ROOT DEVICE instance-store	KERNEL ID eki-82B13ABB	IMAGE MANIFEST centos6/ks-centos6-202001281419.img.manifest.xml
PRIVATE ADDRESS 172.31.255.157	PRIVATE HOSTNAME 172.31.255.157	ACCOUNT ID 874337732029	RESERVATION ID r-762E4075	RAM DISK ID eri-E5844183	

Running Pending Stopping Stopped Shutting-down Terminated

## Identity Management of OpenStack:

Identity



Projects

Users

Groups

Roles

Application Credentials

Projects:

## Projects

Project Name =  Filter  [Create Project](#)  [Delete Projects](#)

Displaying 2 items

<input type="checkbox"/>	Name	Description	Project ID	Domain Name	Enabled	Actions
<input type="checkbox"/>	service	Service Project	1289501889924b139be1fb037970774b	Default	Yes	<a href="#"> Manage Members</a>
<input type="checkbox"/>	admin	Bootstrap project for initializing the cloud.	7673f94418e94a0ba9adbb406de06aa5	Default	Yes	<a href="#"> Manage Members</a>

Displaying 2 items

Users:

Create New user:

## Create User

**Domain ID****Domain Name****User Name \*****Description****Description:**

Create a new user and set related properties including the Primary Project and Role.

**Email****Password \*****Confirm Password \*****Primary Project****Role** Enabled Lock password

## All Users:

# Users

User Name =  Filter [+ Create User](#) [Delete Users](#)

Displaying 7 items

<input type="checkbox"/>	User Name	Description	Email	User ID	Enabled	Domain Name	Actions
<input type="checkbox"/>	admin	-		3ff78b92d2eb48cea247763fd1961a80	Yes	Default	<a href="#">Edit</a> <a href="#">▼</a>
<input type="checkbox"/>	placement	-		27ca8c82ec914eb4af76ca2455b87331	Yes	Default	<a href="#">Edit</a> <a href="#">▼</a>
<input type="checkbox"/>	nova	-		49c6b87660934e21b3a28f8bbf046150	Yes	Default	<a href="#">Edit</a> <a href="#">▼</a>
<input type="checkbox"/>	neutron	-		77d9a4a1010a40f1953086b4d3bbe05e	Yes	Default	<a href="#">Edit</a> <a href="#">▼</a>
<input type="checkbox"/>	glance	-		9ae1f72d7ffc4b6aa150637993969adb	Yes	Default	<a href="#">Edit</a> <a href="#">▼</a>
<input type="checkbox"/>	cinder	-		c50daddee2ab34e74a40874add9504ac3	Yes	Default	<a href="#">Edit</a> <a href="#">▼</a>
<input type="checkbox"/>	d17b	Testing User Creation	abc@gmail.com	901ce2f8011f4d3abbfdcd4d7fa19a42	Yes	Default	<a href="#">Edit</a> <a href="#">▼</a>

Displaying 7 items

Groups:

Create Group:

### Create Group

**Name \***

**Description**

#### Description:

Groups are used to manage access and assign roles to multiple users at once. After creating the group, edit the group to add users.

[Cancel](#)

[Create Group](#)

All Groups:

### Groups

Group Name =  Filter [+ Create Group](#) [Delete Groups](#)

Displaying 1 item

<input type="checkbox"/>	Name	Description	Group ID	Actions
<input type="checkbox"/>	Vivekanand College	VESIT Testing purpose	940d382c43004152a08a3596d2611ab3	<a href="#">Manage Members</a> <input type="button" value="▼"/>

Displaying 1 item

Roles:

Create New Role:

### Create Role

Name \*

 ✓

✗ Cancel ✓ Submit

All Roles:

## Roles

Click here for filters or full text search.

Displaying 4 items

<input type="checkbox"/> Name ▲	ID	
<input type="checkbox"/> admin	733221dfcf04c0ab6f3c2f0d3b73f15	<span style="border: 1px solid #ccc; padding: 2px 5px;">Edit Role</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">▼</span>
<input type="checkbox"/> member	124035aad0a04cba9d5580d3a11a9b42	<span style="border: 1px solid #ccc; padding: 2px 5px;">Edit Role</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">▼</span>
<input type="checkbox"/> reader	3432ce5481244f7ca821a4aa13c3f6be	<span style="border: 1px solid #ccc; padding: 2px 5px;">Edit Role</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">▼</span>
<input type="checkbox"/> Test Role	a29b5191181b401e97dec3cf2ed204fd	<span style="border: 1px solid #ccc; padding: 2px 5px;">Edit Role</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">▼</span>

## Application Credentials:

Create:

### Create Application Credential

**Name \***  
d17b

**Description**  
Testing Purpose

**Secret**  
Nothing

**Expiration Date**  
25-02-2021

**Expiration Time**  
22:00

**Roles**  
reader  
member  
**admin**

**Access Rules**  
[  
{"service": "compute",  
"method": "POST",  
"path": "/v2.1/servers"}]  
or:  
- service: compute  
method: POST  
path: /v2.1/servers

**Unrestricted (dangerous)**

**Description:**  
Create a new application credential.  
The application credential will be created for the currently selected project.

**Secret:** You may provide your own secret, or one will be generated for you. Once your application credential is created, the secret will be revealed once. If you lose the secret, you will have to generate a new application credential.

**Expiration Date/Time:** You may give the application credential an expiration. The expiration will be in UTC. If you provide an expiration date with no expiration time, the time will be assumed to be 00:00:00. If you provide an expiration time with no expiration date, the date will be assumed to be today.

**Roles:** You may select one or more roles for this application credential. If you do not select any, all of the roles you have assigned on the current project will be applied to the application credential.

**Access Rules:** If you want more fine-grained access control delegation, you can create one or more access rules for this application credential. The list of access rules must be a JSON- or YAML-formatted list of rules each containing a service type, an HTTP method, and a URL path, for example:

```
[  
 {"service": "compute",  
 "method": "POST",  
 "path": "/v2.1/servers"}]
```

**Unrestricted:** By default, for security reasons, application credentials are forbidden from being used for creating additional application credentials or keystone trusts. If your application credential needs to be able to perform these actions, check "unrestricted".

Cancel

**ID \***

**Name \***

**Secret \***

**Your application credential**

Please capture the application credential ID and secret in order to provide them to your application.

The application credential secret will not be available after closing this page, so you must capture it now or download it. If you lose this secret, you must generate a new application credential.

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### All Applications Credentials:

**Application Credentials**

<input type="checkbox"/>	Name	Project ID	Description	Expiration	ID	Roles	Actions
<input type="checkbox"/>	d17b	7673f94418e94a0ba9adbb406de06aa5	Testing Purpose	2021-02-25T22:00:00.000000	59a964ad3c1348f7bd822101838f4817	[b'admin']	<a href="#">Delete Application Credential</a>