

Keystone split – Configuration Examples

Summary

In relation to the split of keystone endpoints for European regions, actions are needed on user side if OpenStack APIs are used outside of City Control Panel web interface.

Note that is only applicable if user is interacting with resources in the following regions:

- Fra1 (Frankfurt)
- Lon1 (London)
- Sto2 (Stockholm)

Users that are only using Kna1 (Karlskrona) region are unaffected and do not need to take any action.

Users that are interacting with City Networks OpenStack services with any clients other than City Control Panel will have to use proper credentials as well as other information to properly authenticate and interact with resources. This information can be provided in different ways, but the most common way is through loading in the information from file and store it as OS Environment Variables.

To avoid complete API interruptions, the below changes **MUST** be performed **before** the following dates, separated by region:

- Lon1 - 15 Oct 2018
- Sto2 - 22 Oct 2018
- Fra1 - 5 Nov 2018

Failure perform below actions before these dates will lead to complete authentication failures towards respective region.

Actions

Below are two scenarios. Scenario 1 will require one change, whereas Scenario 2 will require two changes.

These scenarios will use Stockholm region (Sto2) as an example, but are applicable for all affected regions (Lon1, Fra1 and Sto2) with one difference, the new value of OS_AUTH_URL needs to correspond to one of the following:

Region	OS_AUTH_URL
Sto2	https://sto2.citycloud.com:5000/v3
Fra1	https://fra1.citycloud.com:5000/v3
Lon1	https://lon1.citycloud.com:5000/v3

Scenario 1

In this scenario OS_USER_DOMAIN_NAME and OS_PROJECT_DOMAIN_NAME is used, thus no change is needed for these values. This is due to the fact that domain names are global, whereas OS_USER_DOMAIN_ID and OS_PROJECT_DOMAIN_ID will be unique for each region after the split. Note that this scenario is the default if openrc credential file were originally downloaded from City Control Panel and has not been changed since.

The only thing that needs to be change in this case are OS_AUTH_URL.

openrc - Old

```
export OS_USERNAME=<username>
export OS_PASSWORD=<password>
export OS_AUTH_URL=https://kna1.citycloud.com:5000/v3
export OS_USER_DOMAIN_NAME=CCP_Domain_XXX
export OS_PROJECT_DOMAIN_NAME=CCP_Domain_XXX
export OS_REGION_NAME=Sto2
export OS_PROJECT_NAME="<project name>"
export OS_TENANT_NAME="<project name>"
export OS_AUTH_VERSION=3
export OS_IDENTITY_API_VERSION=3
```

openrc - New

```
export OS_USERNAME=<username>
export OS_PASSWORD=<password>
export OS_AUTH_URL=https://sto2.citycloud.com:5000/v3
export OS_USER_DOMAIN_NAME=CCP_Domain_XXX
export OS_PROJECT_DOMAIN_NAME=CCP_Domain_XXX
export OS_REGION_NAME=Sto2
export OS_PROJECT_NAME="<project name>"
export OS_TENANT_NAME="<project name>"
export OS_AUTH_VERSION=3
export OS_IDENTITY_API_VERSION=3
```

Scenario 2

In this scenario OS_USER_DOMAIN_ID and OS_PROJECT_DOMAIN_ID is used instead of their *_NAME counterpart. After the keystone split, the domain IDs will be unique for each region and thus needs to be changed to OS_USER_DOMAIN_NAME and OS_PROJECT_DOMAIN_NAME respectively. OS_AUTH_URL also needs to change, which in this case is to **https://sto2.citycloud.com:5000/v3**

openrc - Old

```
export OS_USERNAME=<username>
export OS_PASSWORD=<password>
export OS_AUTH_URL=https://kna1.citycloud.com:5000/v3
export OS_USER_DOMAIN_ID=<domain UUID>
export OS_PROJECT_DOMAIN_ID=<domain UUID>
export OS_REGION_NAME=Sto2
export OS_PROJECT_NAME="<project name>"
export OS_TENANT_NAME="<project name>"
export OS_AUTH_VERSION=3
export OS_IDENTITY_API_VERSION=3
```

openrc - New

```
export OS_USERNAME=<username>
export OS_PASSWORD=<password>
export OS_AUTH_URL=https://sto2.citycloud.com:5000/v3
export OS_USER_DOMAIN_NAME=CCP_Domain_XXX
export OS_PROJECT_DOMAIN_NAME=CCP_Domain_XXX
export OS_REGION_NAME=Sto2
export OS_PROJECT_NAME="<project name>"
export OS_TENANT_NAME="<project name>"
export OS_AUTH_VERSION=3
export OS_IDENTITY_API_VERSION=3
```