

# OCI Floating IP

Moving all IP secondary addresses from VNICs of VM#1 to VNICs of VM2#

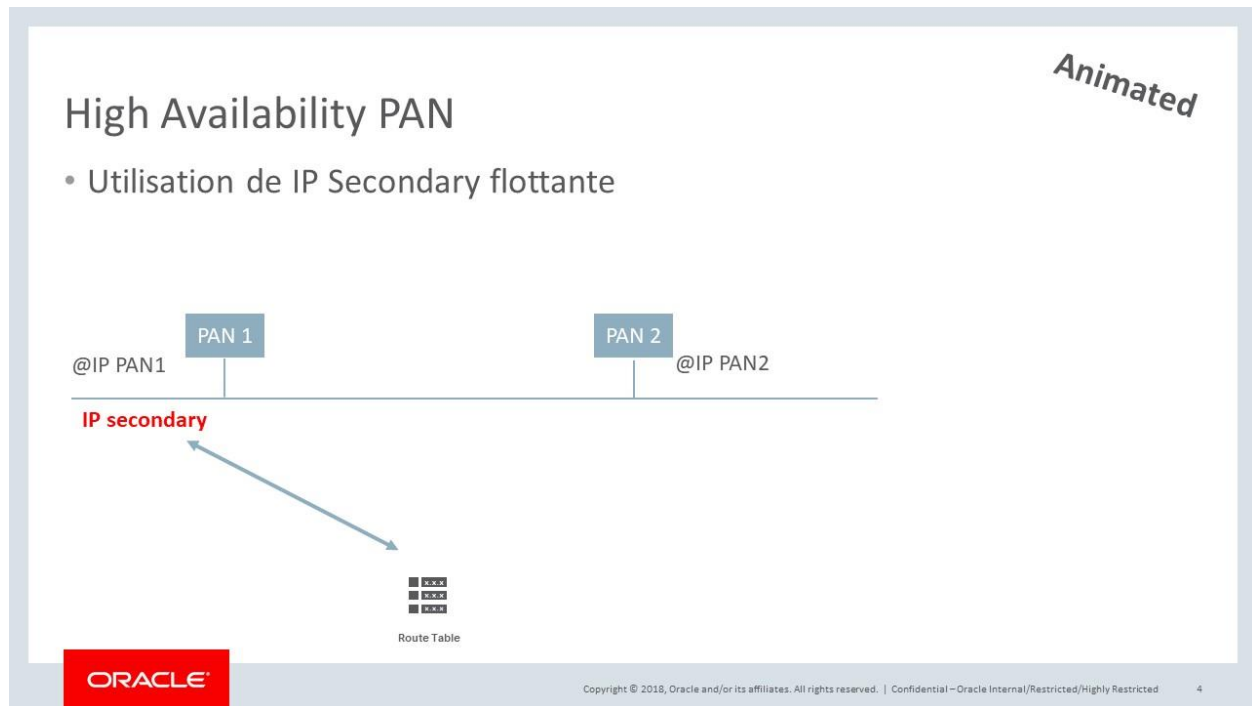
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Oracle Cloud Infrastructure (OCI)

The guide in this directory and accompanied files are released under an as-is, best effort, support policy. These scripts should be seen as community supported.



We have 2 VM: VM1 and VM2. ALL Secondary privateIP will move from VNIC VM1 to VNIC VM2.

URLs are:

`http://@IP:5000/PrimaryIsVM1 ==> force VM1 to be primary for all PrivateIP (Ip secondary)`

`http://@IP:5000/PrimaryIsVM2 ==> force VM2 to be primary`

`http://@IP:5000/IamPrimary ==> The one which sends the request becomes Primary`

`http://@IP:5000/ItisPrimary ==> The one which sends the request becomes secondary`

We use flask on default port 5000 for HTTP server.

So, the HTTP request is the trigger.

API reference <https://docs.cloud.oracle.com/iaas/api/#/en/iaas/20160918/PrivateIp/>

The goal is to manage High Availability for Third party services such as PaloAlto, F5...

For this, we use OCI SDK and Flask/waitress server.

We also use a JSON file which is a configuration file : **oci\_value\_IP\_address.json**

In this configuration file, we provide IP addresses of the 2 VM which are sending simple HTTP request. For example, PaloAlto Networks VM are able to send an HTTP request in case they need to do a move from active to standby VM. In this JSON file we also provide primary IP address of VNIC and PrivateIP (secondary)

The Python script analyzes IP source address of the request. Based on the IP source, it will move from VM1 to VM2 or the other side. This is why it is important to put the right IP address of Primary and secondary VM in **oci\_value\_IP\_address.json file**.

You can test your JSON file and be sure that you are using the right IP addresses with the python scripts: **test\_json\_ip\_address\_SDK.py**

**Our use case.** We had to work on a POC on OCI which includes PaloAlto Network (PAN) and Riverbed.

Riverbed has got its own HA mechanism

For Palo Alto, we used this script. Whatever the number of secondary IP addresses we have to move, when we receive a simple request from a PAN VM, we move all the IP secondary.

For this, we used transit routing.

## Zoom sur VCN Hub / Riverbed

