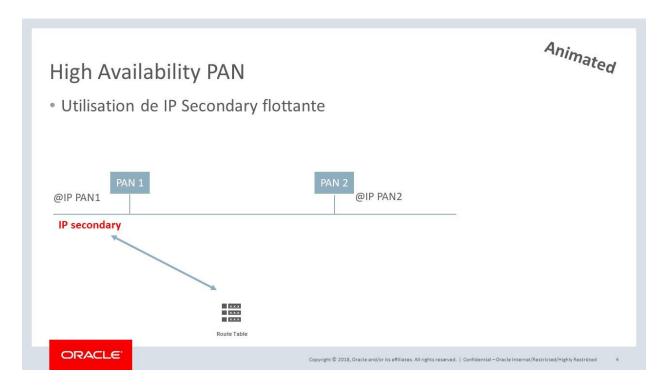
OCI Floating IP

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

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Oracle Cloud Infrastructure (OCI)



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

We use flask on default port 5000 for HTTP server. when we receive an URL http://@IP:5000/ChangePrivateIP_basedOnIP

We move secondary private IPs from VM1 to VM2 in the same subnet

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.

