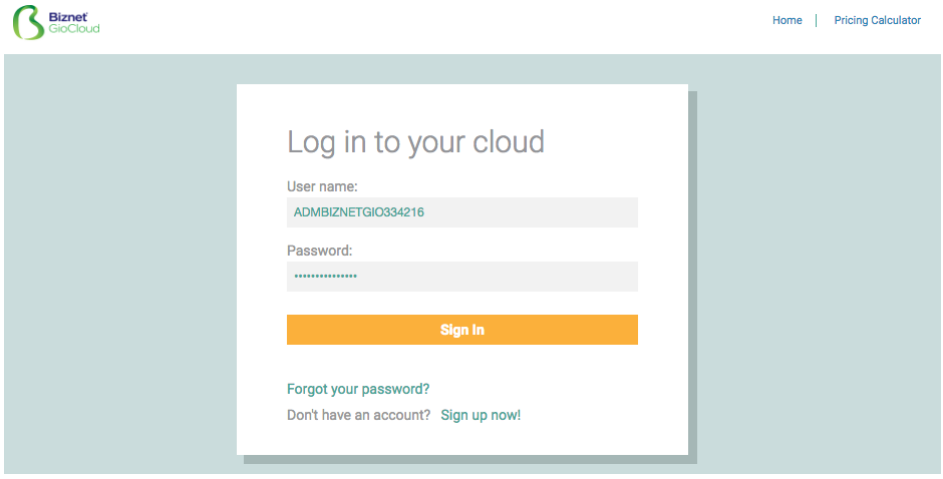
API WORKSHOP PART 2
LAB GUIDANCE

22 October 2016

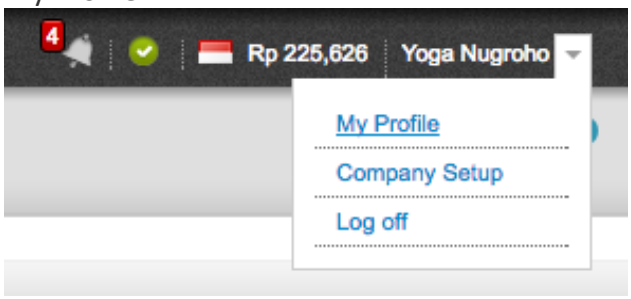
LAB GUIDE – WORKSHOP 2

Note :
Access to server : ssh root@103.44.27.57 -p xxxx
Port ssh : 5001-5030
Password : WorkshopGio2016

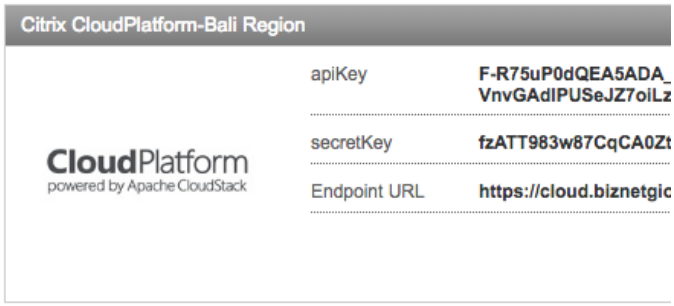
1. Get API key and Secret Key
   a. Login to cloud.biznetgiocloud.com



   b. My Profile



   c. API Credential



   Note : save apikey, secretkey and endpoint URL

2. Setup API tools :
   Cloudmonkey :
   a. Install prerequisites :
      pip installation :
      RHEL/Centos :
      # yum install epel-release
      # yum install python-pip

      Package Installation
      Install readline, requests, Pygments, prettytable, argcomplete :
      # pip install readline
      # pip install requests
      # pip install Pygments
      # pip install prettytable
      # pip install argcomplete

   b. Installation cloudmonkey :
      # pip install cloudmonkey
      # cloudmonkey
      (local) > exit

   c. Configuration :
      # vi ~/.cloudmonkey/config

```
[core]
profile = local
asyncblock = true
paramcompletion = true
history_file = /root/.cloudmonkey/history
cache_file = /root/.cloudmonkey/cache
log_file = /root/.cloudmonkey/log

[ui]
color = true
prompt = > 
display = default

[local]
username = workshop.api@biznetgiocloud.com
domain = /
apikey = 84lXjj1Vr6I7oGmEkKGKQC6cUiHRDDcAghnxD-B4khfzWq9JFq3zOUZgAeDMNb3o2maXOKpJqLeUUasdSasd
url = https://cloud.biznetgiocloud.com/portal/client/apis/cloudapi
expires = 600
signatureversion = 3
secretkey = NSwEw6e7BO8Y4YcMJ4sdcLaV5hcy2Ax4xosariTrNQZD-rxH1X0GG5P0Gi125PMZzVABUNIQRsWdvS0hm1A
timeout = 3600
password = WorkShop2016
verifysslcert = true
```

3. VM operational
    a. create :
    deploy virtualmachine serviceofferingid=xxx templateid=e52f6da5-370b-47f1-b26b-22dde2be997a zoneid=xxx networkids=xxx displayname=xxx name=xxx

    b. add new network
    create network displaytext=xxx name=xxx networkofferingid=xxx zoneid=xxx gateway=xxx.xxx.xxx.xxx netmask=xxx.xxx.xxx.xxx

    c. power off :
    stop virtualmachine id=xxx

    d. add NIC
    add nictovirtualmachine networkid=xxx virtualmachineid=xxx

    e. list NIC on virtual machine
    list nics virtualmachineid=xxx

    f. change default NIC
    update defaultnicforvirtualmachine nicid=xxx virtualmachineid=xxx

    g. remove NIC
    remove nicfromvirtualmachine nicid=xxx virtualmachineid=xxx

    h. power on :
    start virtualmachine id=xxx

4. Access VM using Public IP (port forwarding)
    a. get Public IP
    associate ipaddresss networkid=xxx

    b. add Firewall
    create firewallrule ipaddressid=xxx protocol=tcp cidrlist=xxx startport=3389 endport=3389

    c. add port forwarding
    create portforwardingrule ipaddressid=xxx privateport=3389 publicport=3389 protocol=tcp virtualmachineid=xxx

    d. access VM using public IP using RDP

5. Access VM using Public IP (Load Balancer)
    a. add Firewall
    create firewallrule ipaddressid=xxx protocol=tcp cidrlist=xxx startport=80 endport=80

    b. add load balancer rule
    create loadbalancerrule algorithm=source/roundrobin/leastconn name=xxx privateport=80 publicport=80 publicipid=xxx

    c. assign VM to load balancer
    assign toloadbalancerrule id=xxx virtualmachineid=xxx

    d. access VM using public IP
    Open public IP using your browser

6. delete firewall rule
    a. Delete firewall rule
    delete firewallrule id=xxx

7. delete loadbalancer rule
    a. delete loadbalancer rule
    delete loadbalancerrule id=xxx

8. disassociate public IP
    a. disassociate ipaddress
    disassociate ipaddress id=xxx

9. destroy VM
    a. destroy VM
    destroy virtualmachine id=xxx expunge=true