Module_D1.7_laaS_Report

Infrastructure creation:

https://github.com/silverstandart/Module D1/tree/main/laaS cloud

Swarm cluster creation:

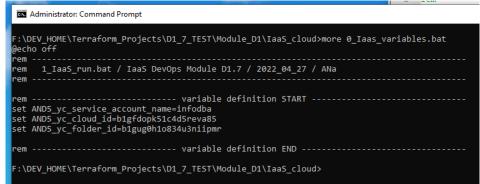
https://github.com/silverstandart/Module_D1/tree/main/laaS_socks

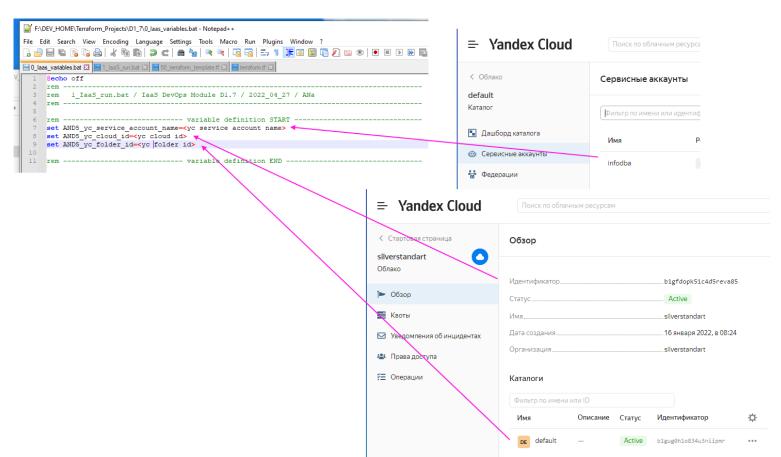
1. Prerequisites

git clone https://github.com/silverstandart/Module D1.git

```
F:\DEV_HOME\Terraform_Projects\D1_7_TEST>git clone https://github.com/silverstandart/Module_D1.git Cloning into 'Module_D1'...
remote: Enumerating objects: 23, done.
remote: Counting objects: 100% (23/23), done.
remote: Compressing objects: 100% (23/23), done.
remote: Total 23 (delta 6), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (23/23), 1.58 MiB | 1.37 MiB/s, done.
Resolving deltas: 100% (6/6), done.
F:\DEV_HOME\Terraform_Projects\D1_7_TEST>_
```

Before running script 1_laaS_run.bat please fill variables in 0_laas_variables.bat



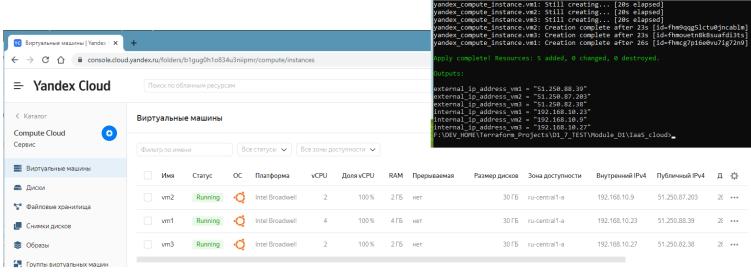


yc config set token <your yandex cloud token id>

for more info https://cloud.yandex.com/en/docs/iam/operations/iam-token/create

2. Infrastructure creation

1_laaS_run.bat Result Administrator. Command Prompt yandex_compute_instance.wil: Still_creating... [20s_elapsed] yandex_compute_instance.will_creating... [20s_elapsed] yandex_compute_instance.will_creating... [20s_elapsed]



```
rem as a result you can get these machines external_ip_address_vml = "51.250.88.39" external_ip_address_vm2 = "51.250.87.203" external_ip_address_vm3 = "51.250.82.38" internal_ip_address_vml = "192.168.10.23" internal_ip_address_vm2 = "192.168.10.9" internal_ip_address_vm3 = "192.168.10.27"
```

3. Swarm cluster creation

Please replace external_ip_address_vm1 internal_ip_address_vm1 and run commands

cd processing_folder
ssh.exe -i infodba_key infodba@<external_ip_address_vm1> -o "StrictHostKeyChecking no"
sudo docker swarm init --advertise-addr <internal_ip_address_vm1>:2377

Please store this command. This command needs to be executed in machine vm2 and vm3 In my case it is

please replace <external_ip_address_vm2> <external_ip_address_vm3> <docker swarm join command above> and run commands ssh.exe -i F:/DEV_HOME/Terraform_Projects/D1_7/processing_folder/infodba_key infodba@<external_ip_address_vm2> -o "StrictHostKeyChecking no" sudo <docker swarm join command above> exit

ssh.exe -i F:/DEV_HOME/Terraform_Projects/D1_7/processing_folder/infodba_key infodba@<external_ip_address_vm3> -o "StrictHostKeyChecking no" sudo <docker swarm join command above>

```
result
```

Replace <external_ip_address_vm1> and run

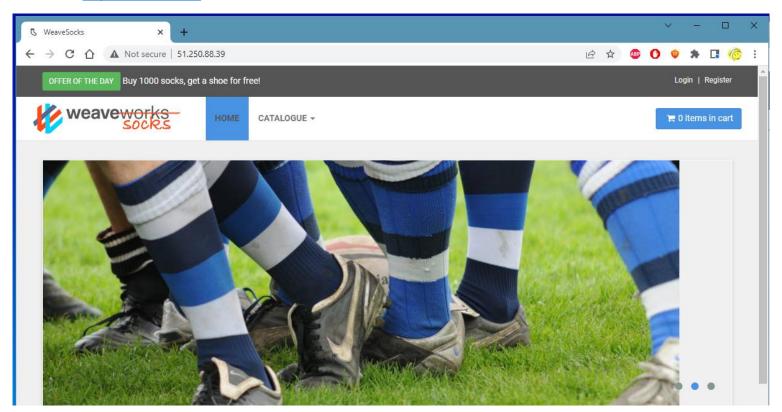
```
ssh.exe -i infodba_key infodba@<external_ip_address_vm1> -o "StrictHostKeyChecking no" sudo docker node ls git clone https://github.com/silverstandart/Module_D1.git cd ./Module_D1/laaS_socks/ sudo chmod 777 1_run.sh sed -i -e 's/\r$//' 1_run.sh ./1_run.sh sudo docker service ls
```

result

```
HOSTNAME
                                                         STATUS
                                                                   AVAILABILITY
                                                                                   MANAGER STATUS
                                                                                                      ENGINE VERSION
s0ujkp2bprxtxira38bartbmq
                                fhm9qqg5lctu0jncablm
                                                        Ready
                                                                   Active
                                                                                                      20.10.14
jt357urco912ujla2rkbr21po
                                fhmcg7p16e0vu7ig72n9
                                                        Ready
                                                                   Active
                                                                                   Leader
                                                                                                      20.10.14
nuhds559vvrza726rvpstlt4y
                                fhmouetn8k8suafdi3ts
                                                        Ready
                                                                   Active
                                                                                                      20.10.14
                   0vu7ig72n9:~/Module_D1/IaaS_socks$ sudo docker service ls
               NAME
                                       MODE
                                                     REPLICAS
                                                                                                         PORTS
TD
                                                                 IMAGE
vwgptffnap7r
                                       replicated
                                                                 weaveworksdemos/carts:0.4.8
               andrey_carts
                                                     2/2
mlz4jb61dgim
               andrey_carts-db
andrey_catalogue
                                       replicated
                                                     1/1
                                                                 mongo:3.4
                                       replicated
                                                                 weaveworksdemos/catalogue:0.3.5
j1j2kcu9rv7a
                                                     2/2
               andrey_catalogue-db
andrey_edge-router
8klelo10lblh
                                       replicated
                                                                 weaveworksdemos/catalogue-db:0.3.0
                                                                                                         *:80->80/tcp, *:8080->8080/tcp
ycvzozfylna0
                                       replicated
                                                     2/2
                                                                 weaveworksdemos/edge-router:0.1.1
                                                     1/2
pu72denzzgd5
                andrey_front-end
                                       replicated
                                                                 weaveworksdemos/front-end:0.3.12
lta7l3czt3w4
                andrey_orders
                                       replicated
                                                     2/2
                                                                 weaveworksdemos/orders:0.4.7
qid9ndgn8rv3
                andrey_orders-db
                                       replicated
                                                     1/1
                                                                 mongo:3.4
1rsubfdmgg5r
                                       replicated
                                                     2/2
                                                                 weaveworksdemos/payment:0.4.3
                andrey_payment
6zq2f8wihlyo
                                                                 weaveworksdemos/queue-master:0.3.1
               andrey_queue-master
                                       replicated
                                                     2/2
               andrey_rabbitmq
andrey_shipping
1bfpd0qpdce5
                                       replicated
                                                     1/2
                                                                 rabbitmq:3.6.8
ovu5t0cvuvw5
                                       replicated
                                                     2/2
                                                                 weaveworksdemos/shipping:0.4.8
               andrey_user
andrey_user-db
                                       replicated
                                                     2/2
                                                                 weaveworksdemos/user:0.4.4
6xvtlmzjq93n
yp24uuny3use
                                       replicated
                                                     1/1
                                                                 weaveworksdemos/user-db:0.4.0
1ulwtgh6htux
                                       replicated
                                                                 weaveworksdemos/load-test:0.1.1
                andrey_user-sim
                                                     0/2
 nfodba@fhmcg7p16e0vu7ig72n9:~/Module_D1/IaaS_socks$ _
```

And now site available on link http://< external_ip_address_vm1>

For me it is http://51.250.88.39



4. IaaS Uninstall

Run and type yes

2_laaS_destroy.bat