Report B6 Project

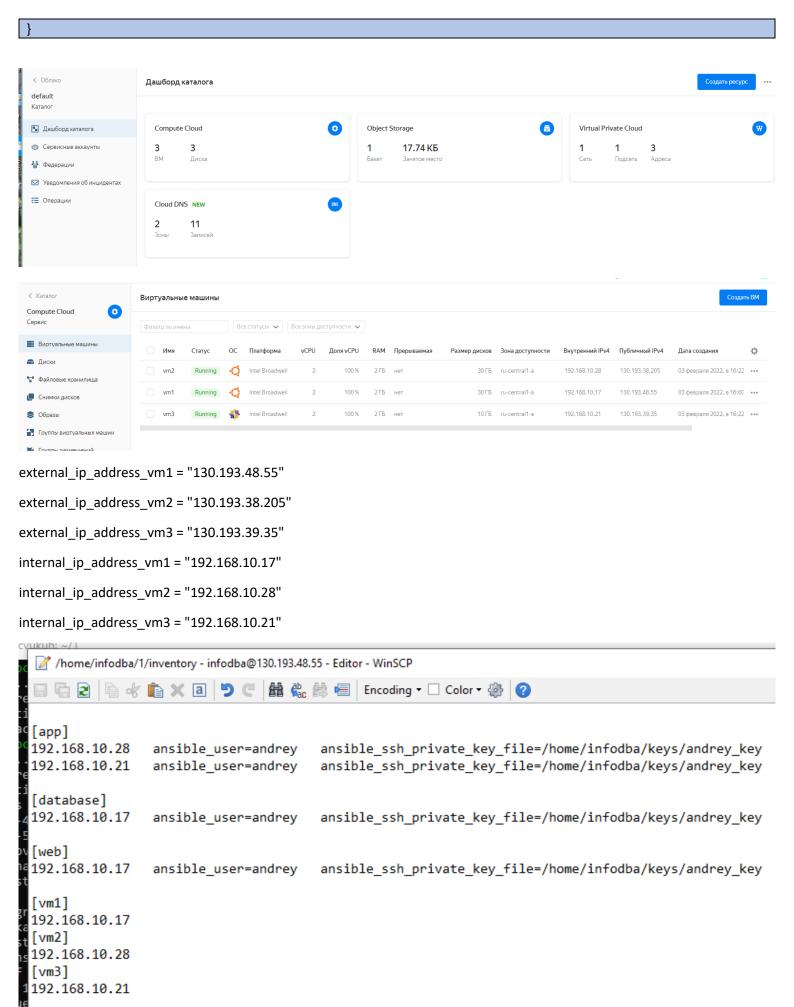
andrey_config.yml

machines.tf

```
----- VARIABLES
variable "zone" {
                               # Используем переменную для передачи в конфиг инфраструктуры
description = "Use specific availability zone" # Опционально описание переменной
                             # Опционально тип переменной
type
        = string
default = "ru-central1-a"
                                  # Опционально значение по умолчанию для переменной
variable "cloud id" {
type
        = string
                             # Опционально тип переменной
default = "b1gfdopk51c4d5reva85"
                                        # Опционально значение по умолчанию для переменной
variable "folder_id" {
        = string
                             # Опционально тип переменной
default = "b1gug0h1o834u3niipmr"
                                        # Опционально значение по умолчанию для переменной
variable "cloud_key_file" {
        = string
                             # Опционально тип переменной
type
default = "F:/DEV HOME/Terraform Projects/key experiments/andrey key.json"
                                                                                   # Опционально значение по
умолчанию для переменной
variable "ssh_key_file" {
type
        = string
                             # Опционально тип переменной
default = "F:/DEV_HOME/Terraform_Projects/key_experiments/andrey_key.pub"
variable "config_file" {
type
                             # Опционально тип переменной
default = "F:/DEV_HOME/Terraform_Projects/key_experiments/andrey_config.yml"
                                    ---- PROVIDER
terraform {
required providers {
 yandex = {
  source = "yandex-cloud/yandex"
  version = "0.70.0" # Фиксируем версию провайдера
# Документация к провайдеру тут https://registry.terraform.io/providers/yandex-
cloud/yandex/latest/docs#configuration-reference
# Настраиваем the Yandex. Cloud provider
provider "yandex" {
service account key file = var.cloud key file
```

```
cloud_id = var.cloud_id
folder_id = var.folder_id
       = var.zone # зона, в которая будет использована по умолчанию
                              ----- WORKING CODE
data "yandex_compute_image" "ubuntu_2004" {
family = "ubuntu-2004-lts-gpu"
data "yandex_compute_image" "centos_8" {
family = "centos-8"
}
resource "yandex_compute_instance" "vm1" {
             = "vm1"
name
resources {
 cores = 2
 memory = 2
boot_disk {
 initialize_params {
  image_id = data.yandex_compute_image.ubuntu_2004.id
 }
}
network_interface {
 subnet_id = yandex_vpc_subnet.subnet-1.id
        = true
  nat
}
metadata = {
 ssh-keys = "${file(var.ssh_key_file)}"
       user-data = file(var.config_file)
}
resource "yandex_compute_instance" "vm2" {
         = "vm2"
name
resources {
 cores = 2
 memory = 2
boot_disk {
 initialize_params {
  image_id = data.yandex_compute_image.ubuntu_2004.id
 }
}
network_interface {
 subnet_id = yandex_vpc_subnet.subnet-1.id
  nat
        = true
metadata = {
 ssh-keys = "${file(var.ssh_key_file)}"
```

```
user-data = file(var.config file)
}
resource "yandex_compute_instance" "vm3" {
             = "vm3"
name
resources {
 cores = 2
 memory = 2
boot_disk {
 initialize_params {
   image_id = data.yandex_compute_image.centos_8.id
 }
}
network_interface {
 subnet_id = yandex_vpc_subnet.subnet-1.id
        = true
  nat
}
metadata = {
 ssh-keys = "${file(var.ssh_key_file)}"
       user-data = file(var.config_file)
}
resource "yandex_vpc_network" "network-1" {
name = "network1"
resource "yandex_vpc_subnet" "subnet-1" {
           = "subnet1"
name
          = "ru-central1-a"
zone
network_id = yandex_vpc_network.network-1.id
v4_cidr_blocks = ["192.168.10.0/24"]
output "external_ip_address_vm1" {
value = yandex_compute_instance.vm1.network_interface.0.nat_ip_address
output "external_ip_address_vm2" {
value = yandex\_compute\_instance.vm2.network\_interface.0.nat\_ip\_address
output "external ip address vm3" {
value = yandex_compute_instance.vm3.network_interface.0.nat_ip_address
output "internal_ip_address_vm1" {
value = yandex_compute_instance.vm1.network_interface.0.ip_address
output "internal_ip_address_vm2" {
value = yandex_compute_instance.vm2.network_interface.0.ip_address
output "internal_ip_address_vm3" {
value = yandex_compute_instance.vm3.network_interface.0.ip_address
```



```
/etc/ansible/hosts - infodba@130.193.48.55 - Editor - WinSCP
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      - Groups of hosts are delimited by [header] elements
      - You can enter hostnames or ip addresses
      - A hostname/ip can be a member of multiple groups
  # Ex 1: Ungrouped hosts, specify before any group headers.
  #green.example.com
  #blue.example.com
  #192.168.100.1
  #192.168.100.10
  # Ex 2: A collection of hosts belonging to the 'webservers' group
  #[webservers]
  #alpha.example.org
  #beta.example.org
  #192.168.1.100
  #192.168.1.110
  # If you have multiple hosts following a pattern you can specify
  # them like this:
  #www[001:006].example.com
  # Ex 3: A collection of database servers in the 'dbservers' group
  #[dbservers]
  #db01.intranet.mydomain.net
  #db02.intranet.mydomain.net
  #10.25.1.56
  #10.25.1.57
  # Here's another example of host ranges, this time there are no
  # leading 0s:
  #db-[99:101]-node.example.com
  [vm2]
  192.168.10.28
                 ansible_user=andrey
                                         ansible_ssh_private_key_file=/home/infodba/keys/andrey_key
  [vm3]
  192.168.10.21
                 ansible_user=andrey
                                         ansible_ssh_private_key_file=/home/infodba/keys/andrey_key
                     Column: 1
  Line: 1/49
                                        Character: 35 (0x23)
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Playbook.yml
```

```
- hosts: app
user: infodba
become: yes
tasks:

- name: "Installing Docker latest version"
yum:
    name: docker-ce
    state: present

- name: docker
    service:
    name: "docker"
    state: started
    enabled: yes

- hosts: database
```

user: infodba
become: yes
tasks:

- name: " Installing postgresql latest version"

yum:

name: postgresql
state: present

- name: postgresql

service:

name: "postgresql"
state: started
enabled: yes

