# Homework_Lesson_36

1. Напишите конфиг для создания СЕ.
2. Добавьте переменную, которая будет определять имя вашей виртуальной машины

```
gcpa4607@tms:~/HW36$ terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/random from the dependency lock file
- Reusing previous version of hashicorp/google from the dependency lock file
- Using previously-installed hashicorp/random v3.7.2
- Using previously-installed hashicorp/google v4.85.0

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
gcpa4607@tms:~/HW36$
```

Terraform used the selected providers to generate the following execution plan.
Resource actions are indicated with the following symbols:
 + create

Terraform will perform the following actions:

```
 # google_compute_firewall.allow_web_ssh will be created
 + resource "google_compute_firewall" "allow_web_ssh" {
   + creation_timestamp = (known after apply)
   + destination_ranges = (known after apply)
   + direction        = "INGRESS"
   + enable_logging    = (known after apply)
   + id           = (known after apply)
   + name          = (known after apply)
   + network        = (known after apply)
   + priority        = 1000
   + project        = (known after apply)
   + self_link       = (known after apply)
   + source_ranges    = [
     + "0.0.0.0/0",
    ]

   + allow {
     + ports   = [
       + "22",
       + "80",
       + "443",
       + "8080",
      ]
     + protocol = "tcp"
    }
 }

 # google_compute_instance.ubuntu_ce will be created
 + resource "google_compute_instance" "ubuntu_ce" {
```

```
+ can_ip_forward       = false
+ cpu_platform         = (known after apply)
+ current_status       = (known after apply)
+ deletion_protection  = false
+ guest_accelerator    = (known after apply)
+ id                   = (known after apply)
+ instance_id          = (known after apply)
+ label_fingerprint    = (known after apply)
+ machine_type         = "e2-micro"
+ metadata             = {
  + "ssh-keys"    = <<-EOT
      ubuntu:ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAACAQDGpIm0EpczYIyY5kVPSI/4P3UzvlTBWjJnqbihc4tUAa3t1e791H2O5ST
2O5KOj0qJRdT+0LnRFTXMIm4jXaZa8Ip0syJIYol5vgmhMI1TFNTEjdUiudMCxADoZf4IvZHHlYstZyIBzwpbVsndkkzj
V+pOXdu70OasNDaZZTqKCMBI6p3m8EM4LtgXzXBicPyciqnJxZXBsbofVST8oDSNwmZGBs5nqKYu/y0PkErZYga+
mnHxxwA18ePlOeuCmSVaR9p2SirM9qmWgYVbcDEnteMOl0yJT0Eb2bASjfvkndK0ethH/6dcOfD3eIeHKFC1fYE
OWLpVybhZfvEuFib8jctsgg6cclwAKsAyBZKkEMPwiN/0i7b6p+tY8CKpdkjhACaWWkhDZsC6qYegO8b6PzdM1Lt
W8MQDWN78ItTvaJaCvvT9hXsyjy6Up8gEHcbxPNV6+T19CY7M+dv8B1/2d4HIw7XvycR7CxR7a0dZYZKgwb+6Xz
cWm/qWPeHCMLCma73MHVV4uUryHFmBIgex1asXv133zWBGeFvkODnSFwxqb8dXpyuSQozcssDXIMYayEcjb
4+pRU5d2ZPG+6bHqBloXMkbRfsgLRG0nhUGRyuknen01SUeCr1fJP0VhZLLGYfUmOspx1FjVts0ahoa1YzH81Vd
uWj0Xc/Vz/eA+w== gcpa4607
    EOT
  + "startup-script" = <<-EOT
      #!/bin/bash
      set -eux
      apt-get update -y
      DEBIAN_FRONTEND=noninteractive apt-get install -y nginx net-tools
      systemctl enable nginx
      systemctl start nginx
    EOT
}
+ metadata_fingerprint = (known after apply)
+ min_cpu_platform     = (known after apply)
+ name                 = "ubuntu24-ce"
+ project              = (known after apply)
+ self_link            = (known after apply)
+ tags                 = [
  + "ssh",
  + "web",
]
+ tags_fingerprint     = (known after apply)
+ zone                 = (known after apply)

+ boot_disk {
  + auto_delete            = true
  + device_name            = (known after apply)
  + disk_encryption_key_sha256 = (known after apply)
  + kms_key_self_link      = (known after apply)
  + mode                   = "READ_WRITE"
  + source                 = (known after apply)

  + initialize_params {
    + image  = "ubuntu-os-cloud/ubuntu-2404-lts-amd64"
    + labels = (known after apply)
    + size   = (known after apply)
    + type   = (known after apply)
  }
```

```
        }

      + confidential_instance_config (known after apply)

      + network_interface {
        + internal_ipv6_prefix_length = (known after apply)
        + ipv6_access_type       = (known after apply)
        + ipv6_address         = (known after apply)
        + name              = (known after apply)
        + network            = (known after apply)
        + network_ip           = (known after apply)
        + stack_type          = (known after apply)
        + subnetwork          = (known after apply)
        + subnetwork_project      = (known after apply)

        + access_config {
          + nat_ip     = (known after apply)
          + network_tier = (known after apply)
        }
      }

      + reservation_affinity (known after apply)

      + scheduling (known after apply)
    }

  # google_compute_network.vpc_network will be created
  + resource "google_compute_network" "vpc_network" {
      + auto_create_subnetworks           = false
      + delete_default_routes_on_create     = false
      + gateway_ipv4             = (known after apply)
      + id                 = (known after apply)
      + internal_ipv6_range          = (known after apply)
      + mtu                = (known after apply)
      + name               = (known after apply)
      + network_firewall_policy_enforcement_order = "AFTER_CLASSIC_FIREWALL"
      + project              = (known after apply)
      + routing_mode           = (known after apply)
      + self_link            = (known after apply)
    }

  # google_compute_subnetwork.subnet will be created
  + resource "google_compute_subnetwork" "subnet" {
      + creation_timestamp     = (known after apply)
      + external_ipv6_prefix    = (known after apply)
      + fingerprint        = (known after apply)
      + gateway_address      = (known after apply)
      + id             = (known after apply)
      + internal_ipv6_prefix    = (known after apply)
      + ip_cidr_range       = "10.0.1.0/24"
      + ipv6_cidr_range      = (known after apply)
      + name            = (known after apply)
      + network          = (known after apply)
      + private_ip_google_access  = (known after apply)
      + private_ipv6_google_access = (known after apply)
      + project          = (known after apply)
      + purpose          = (known after apply)
```

```
    + region              = "europe-north1"
    + secondary_ip_range    = (known after apply)
    + self_link            = (known after apply)
    + stack_type           = (known after apply)
  }

 # random_pet.fw_name will be created
 + resource "random_pet" "fw_name" {
    + id       = (known after apply)
    + length   = 2
    + separator = "-"
  }

 # random_pet.subnet_name will be created
 + resource "random_pet" "subnet_name" {
    + id       = (known after apply)
    + length   = 2
    + separator = "-"
  }

 # random_pet.vpc_name will be created
 + resource "random_pet" "vpc_name" {
    + id       = (known after apply)
    + length   = 2
    + separator = "-"
  }
```

Plan: 7 to add, 0 to change, 0 to destroy.

```
google_compute_network.vpc_network: Creating...
google_compute_network.vpc_network: Still creating... [10s elapsed]
google_compute_network.vpc_network: Creation complete after 12s [id=projects/turnkey-rea
lm-450613-c7/global/networks/vpc-network-shining-cod]
google_compute_subnetwork.subnet: Creating...
google_compute_firewall.allow_web_ssh: Creating...
google_compute_subnetwork.subnet: Still creating... [10s elapsed]
google_compute_firewall.allow_web_ssh: Still creating... [10s elapsed]
google_compute_firewall.allow_web_ssh: Creation complete after 11s [id=projects/turnkey-
realm-450613-c7/global/firewalls/allow-web-ssh-striking-bison]
google_compute_subnetwork.subnet: Still creating... [20s elapsed]
google_compute_subnetwork.subnet: Creation complete after 21s [id=projects/turnkey-realm
-450613-c7/regions/europe-north1/subnetworks/subnet-set-bengal]
google_compute_instance.ubuntu_ce: Creating...
google_compute_instance.ubuntu_ce: Still creating... [10s elapsed]
google_compute_instance.ubuntu_ce: Still creating... [20s elapsed]
google_compute_instance.ubuntu_ce: Creation complete after 23s [id=projects/turnkey-real
m-450613-c7/zones/europe-north1-b/instances/ubuntu24-ce]
```

## Проверяем

| ☐ ✔ | ubuntu24-ce | europe-north1-b | | 10.0.1.2 (nic0) | 35.228.47.205 (nic0) | SSH ▾ | ⋮ |
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