

Infrastructure as Code

- [Terraform](#)
 - [Terraform Top Commands](#)
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Terraform

Terraform Top Commands

- [Terraform CLI Guide](#)

Инициализация рабочего каталога

```
terraform init
```

Валидация конфигурационных файлов

```
terraform validate
```

Просмотр плана выполнения

```
terraform plan
```

Применение изменений (авто подтверждение)

```
terraform apply -auto-approve
```

Уничтожение всей управляемой инфраструктуры (авто подтверждение)

```
terraform destroy -auto-approve
```

Поиск ssh-ключа по NAME

```
curl -X GET \
  -H 'Content-Type: application/json' \
  -H 'Authorization: Bearer <do_key>' \
  'https://api.digitalocean.com/v2/account/keys' \
  -G \
  --data-urlencode 'page=1' \
  --data-urlencode 'per_page=999' \
  | jq '.ssh_keys[] | select(.name=="xeonmp22_key1") | .id'
```

Удаление ключа по ID

```
curl -X DELETE \  
  -H 'Authorization: Bearer <do_key>' \  
  "https://api.digitalocean.com/v2/account/keys/<key_id>"
```

Создание/Удаление заданного ресурса

```
terraform apply -target=digitalocean_droplet.web2 -auto-approve  
terraform apply -target=aws_route53_record.www2 -auto-approve  
terraform destroy -target=digitalocean_droplet.web2 -auto-approve
```

Terraform HandBook

- [Установка Terraform](#)
- Terraform Guides: [Official](#) [+Yandex.Cloud](#)

Terraform Providers: [Official](#) [+Github](#) [+Yandex.Cloud](#)

PROVIDER	API
GitLab Repo	GitLab API
Yandex Cloud	Yandex API
Digital Ocean droplet	Digital Ocean API
Vscale compute instance +Official	Vscale API
Hetzner Cloud server	Hetzner Cloud API
AWS instance AWS Route53 record AWS Route53 zone	HTTP API + API Gatewa

Источник developer.hashicorp.com

- [Environment variables](#)
- [Variables](#)
- [External provider](#)
- [Functions](#)
- [Count](#)
- [Output Values](#)

- [Interpolation Syntax](#)
- [Provisioner remote-exec](#)
- [Provisioner local-exec](#)

Другие источники

- [Google Load Balancers](#)
- [Import JSON Code from API+jq](#)
- [Утилита curl](#)
- [Утилита jq](#)

В обратных кавычках Curl запрос с отфильтрованным fingerprint-ом ключа

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Выгрузка значения **fingerprint** конкретного ключа по его **name**:

```
curl -X GET \  
  -H 'Content-Type: application/json' \  
  -H 'Authorization: Bearer <key>' \  
  'https://api.digitalocean.com/v2/account/keys?page=1&per_page=999' \  
  | jq '.ssh_keys[] | select(.name=="REBRAIN.SSH.PUB.KEY") | .fingerprint'
```

Выгрузка значений **name** всех ключей:

```
curl -X GET \  
  -H 'Content-Type: application/json' \  
  -H 'Authorization: Bearer <key>' \  
  'https://api.digitalocean.com/v2/account/keys?page=1&per_page=999' \  
  | jq '.ssh_keys[] | .name'
```

Vagrant

Vagrant HandBook

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- [Установка Vagrant](#)
- [Plugins](#)
- [Boxes](#)
- [Vagrantfile](#)
- [External Script](#)
- [Vagrant Host Script](#)
- [Ansible Provisioner](#)

Digital Ocean Droplet Example

Предварительная настройка Plugins/BOX

```
vagrant plugin install vagrant-host-shell
vagrant plugin install vagrant-digitalocean
vagrant box add digital_ocean https://github.com/devopsgroup-io/vagrant-
digitalocean/raw/master/box/digital_ocean.box
```

Vagrantfile

```
Vagrant.configure('2') do |config|
  config.vm.define "droplet1" do |config|
    config.vm.provider :digital_ocean do |provider, override|
      override.ssh.private_key_path = '~/ssh/id_rsa'
      override.vm.box = 'digital_ocean'
      override.vm.box_url = "https://github.com/devopsgroup-io/vagrant-
digitalocean/raw/master/box/digital_ocean.box"
      override.nfs.functional = false
      override.vm.allowed_synced_folder_types = :rsync
      provider.token = 'YOUR TOKEN'
      provider.image = 'ubuntu-18-04-x64'
      provider.region = 'nyc1'
      provider.size = 's-1vcpu-1gb'
```

```
    provider.backups_enabled = false
    provider.private_networking = false
    provider.ipv6 = false
    provider.monitoring = false
end
end
```

Vagrant Top Commands

Режимы работы Vagrant:

```
vagrant up
vagrant destroy
vagrant ssh
vagrant status
```

Удаление кэша старых машин:

```
vagrant global-status --prune
```

Запуска/rebuild машин с LOGированием:

```
VAGRANT_LOG=info vagrant up
VAGRANT_LOG=info vagrant rebuild
```