# » ucloud\_projects

This data source providers a list of projects owned by user with finance permission.

### » Example Usage

```
data "ucloud_projects" "example" {
    is_finance = false
}

output "first" {
    value = "${data.ucloud_instances.example.projects.0.id}"
}
```

### » Argument Reference

The following arguments are supported:

- is\_finance (Optional) To identify if the current account is granted with financial permission.
- output\_file (Optional) File name where to save data source results (after running terraform plan).

#### » Attributes Reference

In addition to all arguments above, the following attributes are exported:

- projects It is a nested type which documented below.
- total count Total number of project that satisfy the condition.

The attribute (projects) support the following:

- create\_time The time of creation for instance, formatted in RFC3339 time string.
- id The ID of project defined.
- member\_count The number of members belongs to the defined project.
- name The name of the defined project.
- parent\_id The ID of the parent project where the sub project belongs to.
- parent\_name The name of the parent project where the sub project belongs to.
- resource\_count The number of the resounce instance belong/s to the defined project.

# » ucloud\_eips

This data source provides a list of EIP resources (Elastic IP address) according to their EIP ID.

### » Example Usage

```
data "ucloud_eips" "example" {}
output "first" {
    value = "${data.ucloud_eips.example.eips.0.ip_set.0.ip}"
}
```

### » Argument Reference

The following arguments are supported:

- ids (Optional) The IDs of Elastic IP, all the EIPs belong to this region will be retrieved if the ID is "".
- output\_file (Optional) File name where to save data source results (after running terraform plan).

#### » Attributes Reference

In addition to all arguments above, the following attributes are exported:

- eips eips is a nested type which documented below.
- total\_count Total number of Elastic IP that satisfy the condition.

The attribute (eips) support the following:

- bandwidth Maximum bandwidth to the elastic public network, measured in Mbps.
- ip\_set It is a nested type which documented below.
- create\_time The time of creation for Elastic IP, formatted in RFC3339 time string.
- expire\_time The expiration time for Elastic IP, formatted in RFC3339 time string.
- charge\_mode Elastic IP charge mode. Possible values are: traffic as pay by traffic, bandwidth as pay by bandwidth.
- charge\_type Elastic IP Charge type. Possible values are: year as pay by year, month as pay by month, dynamic as pay by hour.
- name The name of Elastic IP.
- remark The remarks of Elastic IP.

- status Elastic IP status. Possible values are: used as in use, free as available and freeze as associating.
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_\_', and "." If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).

The attribute (ip\_set) support the following:

- internet\_type Type of Elastic IP routes.
- ip Elastic IP address

# » ucloud images

This data source providers a list of available image resources according to their availability zone, image ID and other fields.

## » Example Usage

```
data "ucloud_images" "example" {
    availability_zone = "cn-bj2-02"
    image_type = "base"
    name_regex = "^CentOS 7.[1-2] 64"
}

output "first" {
    value = "${data.ucloud_images.example.images.0.id}"
}
```

## » Argument Reference

- availability\_zone (Optional) Availability zone where images are located. such as: cn-bj2-02. You may refer to list of availability zone.
- image\_id (Optional) The ID of image.
- name\_regex (Optional) A regex string to filter resulting images by name. (Such as: ^CentOS 7.[1-2] 64 means CentOS 7.1 of 64-bit operating system or CentOS 7.2 of 64-bit operating system, "Ubuntu 16.04 64" means Ubuntu 16.04 of 64-bit operating system).
- image\_type (Optional) The type of image. Possible values are: base as standard image, business as owned by market place, and custom as custom-image, all the image types will be retrieved by default.

- os\_type (Optional) The type of OS. Possible values are: linux and windows, all the OS types will be retrieved by default.
- output\_file (Optional) File name where to save data source results (after running terraform plan).

In addition to all arguments above, the following attributes are exported:

- images images is a nested type which documented below.
- total\_count Total number of image that satisfy the condition.

The attribute (images) support the following:

- create\_time The time of creation for EIP, formatted in RFC3339 time string.
- features To identify if any particular feature belongs to the instance, the value is NetEnhnced as I/O enhanced instance for now.
- description The description of image if any.
- id The ID of image.
- name The name of image.
- size The size of image.
- type The type of image.
- os\_name The name of OS.
- os\_type The type of OS.
- status The status of image. Possible values are Available, Making and Unavailable.

# » ucloud\_zones

This data source provides a list of available zones in the current region.

### » Example Usage

```
data "ucloud_zones" "example" {}

output "first" {
    value = "${data.ucloud_instances.example.zones.0.id}"
}
```

## » Argument Reference

• output\_file - (Optional) File name where to save data source results (after running terraform plan).

#### » Attributes Reference

In addition to all arguments above, the following attributes are exported:

• zones - Zones is a nested type which documented below.

The attribute (zones) support the following:

• id - The ID of availability zone.

# » ucloud\_instances

This data source providers a list of UHost instance resources according to their availability zone, instance ID and tag.

# » Example Usage

```
data "ucloud_instances" "example" {
    availability_zone = "cn-bj2-02"
}

output "first" {
    value = "${data.ucloud_instances.example.instances.0.id}"
}
```

## » Argument Reference

- availability\_zone (Optional) Availability zone where instances are located. Such as: "cn-bj2-02". You may refer to list of availability zone
- ids (Optional) The group of IDs of instances that require to be retrieved, all the instances belongs to the defined region will be retrieved if this argument is "".
- output\_file (Optional) File name where to save data source results (after running terraform plan).
- tag (Optional) A mapping of tags to assign to instance.

In addition to all arguments above, the following attributes are exported:

- instances instances is a nested type. instances documented below.
- total\_count Total number of instance that satisfy the condition.

The attribute (instances) support the following:

- auto\_renew To identify if the auto renewal is on, possible values are : "Yes" and "No".
- cpu The number of cores of virtual CPU, measured in "core".
- memory The size of memory, measured in MB.
- create\_time The time of creation for EIP.
- expire\_time The expiration time for instance.
- id The ID of instance.
- instance\_charge\_type The charge type of instance, possible values are: "Year", "Month" and "Dynamic" as pay by hour.
- name The name of the instance.
- remark The remarks of instance.
- status Instance current status. Possible values are "Initializing", "starting", "Running", "Stopping", "Stopped", "Install Fail" and "Rebooting".
- tag A mapping of tags to assign to the instance.
- ip\_set ip\_set is a nested type. ip\_set documented below.
- disk\_set disk\_set is a nested type. disk\_set documented below.

The attribute (disk set) support the following:

- disk id The ID of disk.
- size The size of disk measured in GB (Gigabyte).
- disk\_type The type of disk.
- is\_boot whether or not boot disk.

The attribute (ip\_set) support the following:

- type IP type.
- ip IP address.

# » ucloud instance

Provides an UHost Instance resource.

```
resource "ucloud_security_group" "default" {
   name = "tf-example-instance"
   tag = "tf-example"
```

```
# http access from LAN
    rules {
        port_range = "80"
        protocol = "tcp"
        cidr_block = "192.168.0.0/16"
       policy
                 = "accept"
   }
    # https access from LAN
    rules {
       port_range = "443"
       protocol = "tcp"
        cidr block = "192.168.0.0/16"
                 = "accept"
       policy
}
resource "ucloud_vpc" "default" {
    name = "tf-example-instance"
    tag = "tf-example"
    # vpc network
   cidr_blocks = ["192.168.0.0/16"]
}
resource "ucloud_subnet" "default" {
   name = "tf-example-instance"
   tag = "tf-example"
    # subnet's network must be contained by vpc network
    # and a subnet must have least 8 ip addresses in it (netmask < 30).
    cidr_block = "192.168.1.0/24"
              = "${ucloud_vpc.default.id}"
   vpc_id
}
resource "ucloud_instance" "web" {
                     = "tf-example-instance"
   name
                     = "tf-example"
    tag
    availability_zone = "cn-bj2-02"
    image_id
                    = "uimage-of3pac"
                    = "n-standard-1"
    instance_type
    # use cloud disk as data disk
    data_disk_size = 50
    data_disk_type
                      = "local_normal"
```

```
root_password = "wA1234567"

# we will put all the instances into same vpc and subnet,
# so they can communicate with each other.
vpc_id = "${ucloud_vpc.default.id}"
subnet_id = "${ucloud_subnet.default.id}"

# this security group to allow http and https access
security_group = "${ucloud_security_group.default.id}"
}
```

- availability\_zone (Required) Availability zone where instance is located. such as: cn-bj2-02. You may refer to list of availability zone
- image\_id (Required) The ID for the image to use for the instance.
- instance\_type (Required) The type of instance. There are two types, one is defined by UCloud provider: n-Type-CPU(eg:n-highcpu-2), thereinto, Type can be highcpu, basic, standard, highmem which represent the ratio of CPU and memory respectively (1:1, 1:2, 1:4, 1:8). The other is defined Customized: n-customized-CPU-Memory(eg:n-customized-1-3). Be attention, if the type can be defined by n-Type-CPU, another type will not be allowed. In addition, range of CPU in core: 1-32, range of memory in MB: 1-256. When it is changed, the instance will reboot to make the change take effect.
- root\_password (Optional) The password for the instance, which contains 8-30 characters, and at least 2 items of capital letters, lower case letters, numbers and special characters. The special characters include `()~!@#\$%&\*-+=\_|{}[]:;'<>,.?/. If not specified, terraform will autogenerate a password. Note: When it is changed, the instance will reboot to make the change take effect.
- boot\_disk\_size (Optional) The size of the boot disk, measured in GB (GigaByte). Range: 20-100. The value set of disk size must be larger or equal to 20(default: 20) for Linux and 40 (default: 40) for Windows. The responsive time is a bit longer if the value set is larger than default for local boot disk, and further settings may be required on host instance if the value set is larger than default for cloud boot disk. The disk volume adjustment must be a multiple of 10 GB. When it is changed, the instance will reboot to make the change take effect and need to go to the instance for configuration. In addition, any reduction of boot disk size is not supported.
- boot\_disk\_type (Optional) The type of boot disk. Possible values are: local normal and local ssd for local boot disk, cloud normal

- and cloud\_ssd for cloud boot disk. (Default: local\_normal). The local\_ssd, cloud\_normal and cloud\_ssd are not fully support by all regions as boot disk type, please proceed to UCloud console for more details.
- data\_disk\_type (Optional) The type of local data disk. Possible values are: local\_normal and local\_ssd for local data disk. (Default: local\_normal). The local\_ssd is not supported in all regions as data disk type, please proceed to UCloud console for more details.
- data\_disk\_size (Optional) The size of data disk, measured in GB (Gi-gaByte), range: 0-8000 (Default: 20), 0-8000 for cloud disk, 0-2000 for local sata disk and 100-1000 for local ssd disk (all the GPU type instances are included). The volume adjustment must be a multiple of 10 GB. When it is changed, the instance will reboot to make the change take effect and need to go to the instance for configuration. In addition, any reduction of data disk size is not supported.
- charge\_type (Optional) The charge type of instance, possible values are: year, month and dynamic as pay by hour (specific permission required). (Default: month).
- duration (Optional) The duration that you will buy the instance (Default: 1). The value is 0 when pay by month and the instance will be vaild till the last day of that month. It is not required when dynamic (pay by hour).
- name (Optional) The name of instance, which contains 1-63 characters and only support Chinese, English, numbers, '-', '\_', '.'. If not specified, terraform will autogenerate a name beginning with tf-instance.
- remark (Optional) The remarks of instance. (Default: "").
- security\_group (Optional) The ID of the associated security group.
- subnet\_id (Optional) The ID of subnet.
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_', and ''. If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).
- vpc id (Optional) The ID of VPC linked to the instance.

In addition to all arguments above, the following attributes are exported:

- auto\_renew Whether to renew an instance automatically or not.
- cpu The number of cores of virtual CPU, measureed in core.
- memory The size of memory, measured in MB (Megabyte).
- create\_time The time of creation for instance, formatted in RFC3339 time string.
- expire\_time The expiration time for instance, formatted in RFC3339 time string.

- status Instance current status. Possible values are Initializing, Starting, Running, Stopping, Stopped, InstallFail, ResizeFail and Rebooting.
- ip\_set It is a nested type which documented below.
- disk\_set It is a nested type which documented below.

The attribute (disk\_set) supports the following:

- id The ID of disk.
- size The size of disk, measured in GB (Gigabyte).
- type The type of disk.
- is boot Specifies whether boot disk or not.

The attribute (ip\_set) supports the following:

- internet\_type Type of Elastic IP routes. Possible values are: International as internaltional BGP IP, BGP as china BGP IP and Private as private IP.
- ip Elastic IP address.

# » ucloud\_disk

Provides a Cloud Disk resource.

# » Example Usage

```
resource "ucloud_disk" "example" {
   availability_zone = "cn-bj2-02"
   name = "tf-example-disk"
   disk_size = 10
}
```

### » Argument Reference

- availability\_zone (Required) Availability zone where cloud disk is located. Such as: "cn-bj2-02". You may refer to list of availability zone.
- disk\_size (Required) Purchase the size of disk in GB. 1-8000 for a cloud disk, 1-4000 for SSD cloud disk.
- name (Optional) The name of disk, should have 6-63 characters and only support Chinese, English, numbers, '-', '\_'. If not specified, terraform will autogenerate a name beginning with tf-disk.

- disk\_type (Optional) The type of disk. Possible values are: data\_diskas cloud disk, ssd\_data\_disk as ssd cloud disk. (Default: data disk).
- charge\_type (Optional) Charge type of disk. Possible values are: year as pay by year, month as pay by month, dynamic as pay by hour. (Default: month).
- duration (Optional) The duration that you will buy the resource. (Default: 1). It is not required when dynamic (pay by hour), the value is 0 when month(pay by month) and the disk will be vaild till the last day of that month.
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_\_', and "." If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).

In addition to all arguments above, the following attributes are exported:

- create\_time The time of creation of disk, formatted in RFC3339 time string.
- expire\_time The expiration time of disk, formatted in RFC3339 time string.
- status The status of disk. Possible values are: Available, InUse, Detaching, Initializating, Failed, Cloning, Restoring, RestoreFailed.

# » ucloud\_disk\_attachment

Provides a Cloud Disk Attachment resource for attaching Cloud Disk to UHost Instance.

```
# Query availability zone
data "ucloud_zones" "default" {}

# Query image
data "ucloud_images" "default" {
   availability_zone = "${data.ucloud_zones.default.zones.0.id}"
   name_regex = "^CentOS 7.[1-2] 64"
   image_type = "base"
}
```

```
# Create security group
resource "ucloud_security_group" "default" {
 name = "tf-example-disk"
  tag = "tf-example"
  # allow all access from WAN
 rules {
   port_range = "1-65535"
   protocol = "tcp"
   cidr_block = "0.0.0.0/0"
             = "accept"
   policy
 }
}
# Create security group
resource "ucloud_disk" "default" {
  availability_zone = "${data.ucloud_zones.default.zones.0.id}"
                  = "tf-example-disk"
  disk_size
                  = 10
}
# Create a web server
resource "ucloud_instance" "web" {
  availability_zone = "${data.ucloud_zones.default.zones.0.id}"
  instance_type
                  = "n-standard-1"
              = "${data.ucloud_images.default.images.0.id}"
  image id
 root_password = "${var.instance_password}"
  # this security group allows all access from WAN
 security_group = "${ucloud_security_group.default.id}"
 name = "tf-example-disk"
  tag = "tf-example"
}
# attach disk to instance
resource "ucloud_disk_attachment" "default" {
  availability_zone = "${data.ucloud_zones.default.zones.0.id}"
                  = "${ucloud_disk.default.id}"
 disk_id
                  = "${ucloud_instance.web.id}"
  instance_id
}
```

The following arguments are supported:

- availability\_zone (Required) The Zone to attach the disk in.
- instance\_id (Required) The ID of host instance.
- disk\_id (Required) The ID of disk that needs to be attached

# » ucloud security group

Provides a Security Group resource.

# » Example Usage

```
resource "ucloud_security_group" "example" {
    name = "tf-example-instance"
   tag = "tf-example"
    # http access from LAN
    rules {
        port_range = "80"
       protocol = "tcp"
        cidr_block = "192.168.0.0/16"
       policy
                 = "accept"
    }
    # https access from LAN
    rules {
        port_range = "443"
       protocol = "tcp"
        cidr_block = "192.168.0.0/16"
                 = "accept"
        policy
    }
}
```

# » Argument Reference

The following arguments are supported:

• rules - (Required) A list of security group rules. Each element contains the following attributes: protocol, port\_range, cidr\_block, policy (possible values are:accept and drop) and priority (possible values are: high, medium and low. (eg: tcp|22|192.168.1.1/22|drop|low).

- name (Optional) The name of the security group which contains 1-63 characters and only support Chinese, English, numbers, '-', '\_' and "." If not specified, terraform will autogenerate a name beginning with tf-security-group.
- remark (Optional) The remarks of the security group. (Default: "").
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_\_', and '.'. If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).

The attribute (rules) support the following:

- cidr\_block The cidr block of source.
- policy Authorization policy. Can be either accept or drop.
- port\_range The range of port numbers, range: 1-65535. (eg: port or port1-port2).
- priority Rule priority. Can be high, medium, low.
- protocol The protocol. Can be tcp, udp, icmp, gre. ## Attributes Reference

In addition to all arguments above, the following attributes are exported:

• create\_time - The time of creation of security group, formatted in RFC3339 time string.

# » ucloud\_eip

Provides an Elastic IP resource.

#### » Example Usage

### » Argument Reference

The following arguments are supported:

• internet\_type - (Required) Type of Elastic IP routes. Possible values are: international as internaltional BGP IP and bgp as china BGP IP.

- bandwidth (Optional) Maximum bandwidth to the elastic public network, measured in Mbps (Mega bit per second). the ranges for bandwidth are: 1-200 for pay by traffic, 1-800 for pay by bandwith. (Default: 1).
- duration (Optional) The duration that you will buy the resource. (Default: 1). It is not required when dynamic (pay by hour), the value is 0 when month(pay by month) and the instance will be vaild till the last day of that month.
- charge\_mode -(Optional) Elastic IP charge mode. Possible values are: traffic as pay by traffic, bandwidth as pay by bandwidth. (Default: bandwidth).
- charge\_type (Optional) Elastic IP charge type. Possible values are: year as pay by year, month as pay by month, dynamic as pay by hour (specific permission required). (Default: month).
- name (Optional) The name of the EIP, which contains 1-63 characters and only support Chinese, English, numbers, '-', '\_', '.'. If not specified, terraform will autogenerate a name beginning with tf-eip.
- remark (Optional) The remarks of the EIP. (Default: "").
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_', and '.'. If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).

In addition to all arguments above, the following attributes are exported:

- create\_time The time of creation for EIP, formatted in RFC3339 time string.
- expire\_time The expiration time for EIP, formatted in RFC3339 time string.
- ip\_set It is a nested type which documented below.
- resource It is a nested type which documented below.
- status EIP status. Possible values are: used as in use, free as available and freeze as associating.
- public\_ip Public IP address of Elastic IP.

The attribute (ip\_set) support the following:

• internet\_type - Type of Elastic IP routes.

The attribute (resource) support the following:

- id The ID of the resource with EIP attached.
- type The type of resource with EIP attached. Possible values are instance as instance, vrouter as visual router, 1b as load balancer.

# » ucloud\_eip\_association

Provides an EIP Association resource for associating Elastic IP to UHost Instance, Load Balancer, etc.

```
# Query availability zone
data "ucloud_zones" "default" {}
# Query image
data "ucloud_images" "default" {
 availability_zone = "${data.ucloud_zones.default.zones.0.id}"
 name_regex = "^CentOS 7.[1-2] 64"
                 = "base"
 image_type
}
# Create security group
resource "ucloud_security_group" "default" {
 name = "tf-example-eip"
 tag = "tf-example"
 rules {
   port_range = "80"
   protocol = "tcp"
   cidr_block = "192.168.0.0/16"
   policy = "accept"
# Create an eip
resource "ucloud_eip" "default" {
 bandwidth = 2
 charge mode = "bandwidth"
             = "tf-example-eip"
 name
             = "tf-example"
 tag
 internet_type = "bgp"
}
# Create a web server
resource "ucloud_instance" "web" {
 instance_type = "n-standard-1"
 availability_zone = "${data.ucloud_zones.default.zones.0.id}"
             = "${data.ucloud_images.default.images.0.id}"
```

```
data_disk_size = 50
root_password = "${var.instance_password}"
security_group = "${ucloud_security_group.default.id}"

name = "tf-example-eip"
tag = "tf-example"
}

# Bind eip to instance
resource "ucloud_eip_association" "default" {
  resource_id = "${ucloud_instance.web.id}"
  eip_id = "${ucloud_eip.default.id}"
}
```

The following arguments are supported:

- eip\_id (Required) The ID of EIP.
- resource\_id (Required) The ID of resource with EIP attached.
- resource\_type **Deprecated**, attribute resource\_type is deprecated for optimizing parameters.

# » ucloud lb

Provides a Load Balancer resource.

# » Example Usage

```
resource "ucloud_lb" "web" {
    name = "tf-example-lb"
    tag = "tf-example"
}
```

# » Argument Reference

- internal (Optional) Indicate whether the load balancer is intranet.
- name (Optional) The name of the load balancer. If not specified, terraform will autogenerate a name beginning with tf-lb.

- charge\_type Deprecated, attribute charge\_type is deprecated for optimizing parameters.
- vpc\_id (Optional) The ID of the VPC linked to the Load Balancers, This argument is not required if default VPC.
- subnet\_id (Optional) The ID of subnet that intrant load balancer belongs to. This argumnet is not required if default subnet.
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_\_', and "." If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).
- remark (Optional) The remarks of the load balancer. (Default: is "").

In addition to all arguments above, the following attributes are exported:

- create\_time The time of creation for load balancer, formatted in RFC3339 time string.
- expire\_time The expiration time for load balancer, formatted in RFC3339 time string.
- ip\_set It is a nested type which documented below.
- private\_ip The IP address of intranet IP. It is "" if internal is false.

The attribute (ip\_set) support the following:

- internet\_type Type of Elastic IP routes.
- ip Elastic IP address.

# » ucloud\_lb\_attachment

Provides a Load Balancer Attachment resource for attaching Load Balancer to UHost Instance, etc.

```
resource "ucloud_lb" "web" {
   name = "tf-example-lb"
   tag = "tf-example"
}

resource "ucloud_lb_listener" "default" {
   load_balancer_id = "${ucloud_lb.web.id}"
   protocol = "https"
}
```

```
resource "ucloud_security_group" "default" {
   name = "tf-example-eip"
   tag = "tf-example"
   rules {
       port_range = "80"
       protocol = "tcp"
       cidr block = "192.168.0.0/16"
       policy
                 = "accept"
   }
}
resource "ucloud instance" "web" {
   instance_type = "n-standard-1"
   availability_zone = "cn-bj2-02"
                      = "wA1234567"
   root_password
                      = "uimage-of3pac"
   image_id
   security_group
                     = "${ucloud_security_group.default.id}"
                     = "tf-example-lb"
   name
                     = "tf-example"
   tag
}
resource "ucloud_lb_attachment" "example" {
   load_balancer_id = "${ucloud_lb.web.id}"
   listener_id = "${ucloud_lb_listener.default.id}"
   resource_id
                  = "${ucloud_instance.web.id}"
   port
                    = 80
}
```

- load\_balancer\_id (Required) The ID of load balancer instance.
- listener\_id (Required) The ID of listener servers.
- resource\_id (Required) The ID of backend servers.
- resource\_type Deprecated, attribute resource\_type is deprecated for optimizing parameters.
- port (Optional) Port opened on the backend server to receive requests, range: 1-65535, (Default: 80).

In addition to all arguments above, the following attributes are exported:

- private\_ip The private ip address for backend servers.
- status The status of backend servers. Possible values are: normalRunning, exceptionRunning.

# » ucloud lb listener

Provides a Load Balancer Listener resource.

### » Example Usage

```
resource "ucloud_lb" "web" {
   name = "tf-example-lb"
   tag = "tf-example"
}

resource "ucloud_lb_listener" "example" {
   load_balancer_id = "${ucloud_lb.web.id}"
   protocol = "https"
}
```

### » Argument Reference

- load\_balancer\_id (Required) The ID of load balancer instance.
- protocol (Required) Listener protocol. Possible values: http, https if listen\_type is request\_proxy, tcp and udp if listen\_type is packets\_transmit.
- name (Optional) The name of the listener. If not specified, terraform will autogenerate a name beginning with tf-lb-listener.
- listen\_type (Optional) The type of listener. Possible values are request\_proxy and packets\_transmit. (Default: packets\_transmit).
- port (Optional) Port opened on the listeners to receive requests, range: 1-65535. (Default: 80).
- idle\_timeout (Optional) Amount of time in seconds to wait for the response for in between two sessions if listen\_type is request\_proxy, range: 0-86400. (Default: 60). Amount of time in seconds to wait for one session if listen\_type is packets\_transmit, range: 60-900. The session will be closed as soon as no response if it is 0.

- method (Optional) The load balancer method in which the listener is. Possible values are: roundrobin, source, consistent\_hash, source\_port , consistent\_hash\_port, weight\_roundrobin and leastconn. (Default: roundrobin).
  - The consistent\_hash, source\_port , consistent\_hash\_port, roundrobin, source and weight\_roundrobin are valid if listen\_type is packets\_transmit.
  - The rundrobin, source and weight\_roundrobin and leastconn are vaild if listen\_type is request\_proxy.
- persistence (Optional) Indicate whether the persistence session is enabled, it is invaild if PersistenceType is none, an auto-generated string will be exported if persistence\_type is server\_insert, a custom string will be exported if persistence\_type is user\_defined.
- persistence\_type (Optional) The type of session persistence of listener. Possible values are: none as disabled, server\_insert as auto-generated string and user\_defined as cutom string. (Default: none).
- health\_check\_type (Optional) Health check method. Possible values are port as port checking and path as http checking.
- path (Optional) Health check path checking.
- domain (Optional) Health check domain checking.

In addition to all arguments above, the following attributes are exported:

• status - Listener status. Possible values are: allNormal for all resource functioning well, partNormal for partial resource functioning well and allException for all resource functioning exceptional.

# » ucloud\_lb\_rule

Provides a Load Balancer Rule resource to add content forwarding policies for Load Balancer backend resource.

```
resource "ucloud_lb" "web" {
    name = "tf-example-lb"
    tag = "tf-example"
}
resource "ucloud_lb_listener" "default" {
    load_balancer_id = "${ucloud_lb.web.id}"
```

```
protocol
                    = "https"
}
resource "ucloud_security_group" "default" {
   name = "tf-example-eip"
   tag = "tf-example"
   rules {
       port_range = "80"
       protocol = "tcp"
       cidr_block = "192.168.0.0/16"
                = "accept"
       policy
   }
}
resource "ucloud instance" "web" {
   instance_type = "n-standard-1"
   availability_zone = "cn-bj2-02"
                      = "wA1234567"
   root_password
   image_id
                     = "uimage-of3pac"
   security_group
                    = "${ucloud_security_group.default.id}"
                     = "tf-example-lb"
   name
                     = "tf-example"
   tag
}
resource "ucloud_lb_attachment" "default" {
   load_balancer_id = "${ucloud_lb.web.id}"
                  = "${ucloud_lb_listener.default.id}"
   listener_id
                  = "instance"
   resource_type
   resource_id
                   = "${ucloud_instance.web.id}"
   port
                    = 80
}
resource "ucloud_lb_rule" "example" {
   load_balancer_id = "${ucloud_lb.web.id}"
   listener_id = "${ucloud_lb_listener.default.id}"
   backend_ids
                   = ["${ucloud_lb_attachment.default.id}"]
                   = "www.ucloud.cn"
   domain
}
```

- load\_balancer\_id (Required) The ID of the load balancer which requires the rule.
- listener id (Required) The ID of the listener which requires the rule.
- backend\_ids (Required) The IDs of the backend servers where rule applies, this argument is populated base on the backend\_id responed from lb\_attachment create.
- path (Optional) The path of Content forward matching fields. path and domain cannot coexist. path and domain must be filled in one.
- domain (Optional) The domain of content forward matching fields. path and domain cannot coexist. path and domain must be filled in one.

# » ucloud lb ssl

Provides a Load Balancer SSL certificate resource.

### » Example Usage

```
resource "ucloud_lb_ssl" "example" {
   name = "tf-example-lb-ssl"
   private_key = "${file("test-fixtures/private.key")}"
   user_cert = "${file("test-fixtures/user.crt")}"
   ca_cert = "${file("test-fixtures/ca.crt")}"
}
```

### » Argument Reference

The following arguments are supported:

- name (Optional) The name of the LB ssl, which contains 1-63 characters and only support Chinese, English, numbers, '-', '\_', '.' If not specified, terraform will autogenerate a name beginning with tf-lb-ssl.
- private\_key (Required) The content of the private key about ssl certificate.
- user\_cert (Required) The content of the user certificate about ssl certificate.
- ca\_cert (Optional) The content of the CA certificate about ssl certificate.

### » Attributes Reference

In addition to all arguments above, the following attributes are exported:

• create\_time - The time of creation for lb ssl, formatted in RFC3339 time string.

# » ucloud lb ssl

Provides a Load Balancer SSL attachment resource for attaching SSL certificate to Load Balancer.

## » Example Usage

```
resource "ucloud_lb" "foo" {
   name = "tf-example-lb-ssl-attachment"
    tag = "tf-example"
}
resource "ucloud lb listener" "foo" {
                    = "tf-example-lb-ssl-attachment"
   load_balancer_id = "${ucloud_lb.foo.id}"
                    = "https"
   protocol
}
resource "ucloud_lb_ssl" "foo" {
   name = "tf-example-lb-ssl-attachment"
   private_key = "${file("test-fixtures/private.key")}"
   user_cert = "${file("test-fixtures/user.crt")}"
    ca_cert = "${file("test-fixtures/ca.crt")}"
}
resource "ucloud_lb_ssl_attachment" "foo" {
    load_balancer_id = "${ucloud_lb.foo.id}"
   listener id = "${ucloud lb listener.foo.id}"
    ssl_id = "${ucloud_lb_ssl.foo.id}"
}
```

# » Argument Reference

- ssl\_id (Required) The ID of SSL certificate.
- load\_balance\_id (Required) The ID of load balancer instance.
- listener\_id (Required) The ID of listener servers.

# » ucloud\_vpc

Provides a VPC resource.

**Note** The network segment can only be created or deleted, can not perform both of them at the same time.

# » Example Usage

```
resource "ucloud_vpc" "example" {
   name = "tf-example-vpc"
   tag = "tf-example"

   # vpc network
   cidr_blocks = ["192.168.0.0/16"]
}
```

# » Argument Reference

The following arguments are supported:

- cidr\_blocks (Required) The CIDR blocks of VPC.
- name (Optional) The name of VPC. If not specified, terraform will autogenerate a name beginning with tf-vpc.
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_\_', and "." If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).
- remark (Optional) The remarks of the VPC. (Default: "").

### » Attributes Reference

In addition to all arguments above, the following attributes are exported:

- create\_time The time of creation for VPC, formatted in RFC3339 time string.
- update\_time The time whenever there is a change made to VPC, formatted in RFC3339 time string.
- network\_info It is a nested type which documented below.

The attribute (network\_info) support the following:

• cidr\_block - The CIDR block of the VPC.

# » ucloud\_vpc\_peering\_connection

Provides an VPC Peering Connection for establishing a connection between multiple VPC.

## » Example Usage

```
resource "ucloud_vpc" "foo" {
         = "tf-example-vpc-01"
   name
             = "tf-example"
   tag
   cidr blocks = ["192.168.0.0/16"]
}
resource "ucloud_vpc" "bar" {
   name = "tf-example-vpc-02"
             = "tf-example"
   tag
   cidr_blocks = ["10.10.0.0/16"]
}
resource "ucloud_vpc_peering_connection" "connection" {
   vpc_id = "${ucloud_vpc.foo.id}"
   peer_vpc_id = "${ucloud_vpc.bar.id}"
}
```

## » Argument Reference

The following arguments are supported:

- vpc\_id (Required) The short of ID of the requester VPC of the specific VPC Peering Connection to retrieve.
- peer\_vpc\_id (Required) The short ID of accepter VPC of the specific VPC Peering Connection to retrieve.
- peer\_project\_id (Optional) The ID of accepter project of the specific VPC Peering Connection to retrieve.

# » ucloud subnet

Provides a Subnet resource under VPC resource.

```
resource "ucloud_vpc" "default" {
```

```
name = "tf-example-vpc"
tag = "tf-example"

# vpc network
cidr_blocks = ["192.168.0.0/16"]
}

resource "ucloud_subnet" "example" {
   name = "tf-example-subnet"
   tag = "tf-example"

# subnet's network must be contained by vpc network
# and a subnet must have least 8 ip addresses in it (netmask < 30).
cidr_block = "192.168.1.0/24"
   vpc_id = "${ucloud_vpc.default.id}"
}</pre>
```

The following arguments are supported:

- cidr\_block (Required) The cidr block of the desired subnet, format in "0.0.0.0/0", such as: 192.168.0.0/24.
- vpc\_id (Required) The id of the VPC that the desired subnet belongs
- name (Optional) The name of the desired subnet. If not specified, terraform will autogenerate a name beginning with tf-subnet.
- remark (Optional) The remarks of the subnet. (Default: "").
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_\_', and "." If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).

### » Attributes Reference

In addition to all arguments above, the following attributes are exported:

• create\_time - The time of creation of subnet, formatted in RFC3339 time string.

# » ucloud\_db\_instance

Provides a Database instance resource.

**Note** Please do confirm if any task pending submission before reset your password, since the password reset will take effect immediately.

## » Example Usagek

```
# Query availability zone
data "ucloud zones" "default" {}
# Create parameter group
data "ucloud_db_parameter_groups" "default" {
  availability_zone = "${data.ucloud_zones.default.zones.0.id}"
                   = "false"
 multi_az
  engine
                    = "mysql"
                    = "5.7"
  engine_version
}
# Create database instance
resource "ucloud_db_instance" "master" {
  availability_zone = "${data.ucloud_zones.default.zones.0.id}"
                     = "tf-example-db-instance"
  instance_storage = 20
                     = "mysql-ha-1"
  instance_type
                     = "mysql"
  engine
  engine_version
                    = "5.7"
                     = "2018_dbInstance"
 password
 parameter_group_id = "${data.ucloud_db_parameter_groups.default.parameter_groups.0.id}"
                     = "tf-example"
  # Backup policy
 backup_begin_time = 4
 backup_count
                    = "0111110"
 backup_date
  backup_black_list = ["test.%"]
}
```

### » Argument Reference

- availability\_zone (Required) Availability zone where database instance is located. Such as: "cn-bj2-02". You may refer to list of availability zone
- standby\_zone (Optional) Availability zone where the standby database instance is located for the high availability database instance with multiple

- zone; The disaster recovery of data center can be activated by switching to the standby database instance for the high availability database instance.
- password (Optional) The password for the database instance which should have 8-30 characters. It must contain at least 3 items of Capital letters, small letter, numbers and special characters. The special characters include -\_. If not specified, terraform will autogenerate a password.
- engine (Required) The type of database engine, possible values are: "mysql", "percona".
- engine\_version (Required) The database engine version, possible values are: "5.5", "5.6", "5.7".
  - -5.5/5.6/5.7 for mysql and percona engine.
- name (Optional) The name of database instance, which contains 6-63 characters and only support Chinese, English, numbers, '-', '\_', '', ',', '[', ']', ':'. If not specified, terraform will autogenerate a name beginning with tf-db-instance.
- instance\_storage (Required) Specifies the allocated storage size in gigabytes (GB), range from 20 to 3000GB. The volume adjustment must be a multiple of 10 GB. The maximum disk volume for SSD type are
  - 500GB if the memory chosen is equal or less than 8GB;
  - 1000GB if the memory chosen is from 12 to 24GB;
  - 2000GB if the memory chosen is 32GB;
  - 3000GB if the memory chosen is equal or more than 48GB.
- parameter\_group\_id (Required) The ID of database parameter group. Note: The "parameter\_group\_id" of the multiple zone database instance should be included in the request for the high availability database instance with multiple zone. When it is changed, it doesn't automatically take effect until rebooting database instance.
- instance\_type (Required) Specifies the type of database instance with format "engine-type-memory", Possible values are:
  - "mysql" and "percona" for engine;
  - "ha" as high availability version for type of database, high availability version use the dual main hot standby structure which can thoroughly solved the issue of unavailable database caused by the system down-time or hardware failure, the "ha" version only supports "mysql" and "percona" engine.
  - possible values for memory are: 1, 2, 4, 6, 8, 12, 16, 24, 32, 48, 64GB.
- port (Optional) The port on which the database accepts connections, the default port is 3306 for mysql and percona.
- charge\_type (Optional) The charge type of db instance, possible values are: year, month and dynamic as pay by hour (specific permission required). (Default: month).
- duration (Optional) The duration that you will buy the db instance (Default: 1). The value is 0 when pay by month and the instance will be vaild till the last day of that month. It is not required when dynamic (pay by hour).
- vpc\_id (Optional) The ID of VPC linked to the database instances.

- subnet\_id (Optional) The ID of subnet.
- backup\_count (Optional) Specifies the number of backup saved per week, it is 7 backups saved per week by default.
- backup\_begin\_time (Optional) Specifies when the backup starts, measured in hour, it starts at one o'clock of 1, 2, 3, 4 in the morning by default.
- backup\_date (Optional) Specifies whether the backup took place from Sunday to Saturday by displaying 7 digits. 0 stands for backup disbaled and 1 stands for backup enabled. The rightmost digit specifies whether the backup took place on Sunday, and the digits from right to left specify whether the backup took place from Monday to Saturday, it's mandatory required to backup twice per week at least. such as: digits "1100000" stands for the backup took place on Saturday and Friday.
- backup\_black\_list (Optional) The backup for database such as "test.%" or table such as "city.address" specified in the black lists are not supprted.
- tag (Optional) A mapping of tags to assign to VPC, which contains at most 63 characters and only support Chinese, English, numbers, '-', '\_', and "." If it is not filled in or a empty string is filled in, then default tag will be assigned. (Default: Default).

In addition to all arguments above, the following attributes are exported:

- status Specifies the status of database, possible values are: "Init", "Fail", "Starting", "Running", "Shutdown", "shutoff", "Delete", "Upgrading", "Promoting", "Recovering" and "Recover fail".
- create\_time The creation time of database, formatted by RFC3339 time string.
- expire\_time The expiration time of database, formatted by RFC3339 time string.
- modify\_time The modification time of database, formatted by RFC3339 time string.