# » ucloud\_projects

This data source providers a list of projects owned by user according to finance permission and name.

### » Example Usage

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

output "first" {
   value = data.ucloud_projects.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.
- name\_regex (Optional) A regex string to filter resulting projects by
- 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 projects that satisfy the condition.

The attribute (projects) support the following:

- id The ID of project defined.
- 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.
- member\_count The number of members belongs to the defined project.

- resource\_count The number of the resounce instance belong/s to the defined project.
- create\_time The time of creation for instance, formatted in RFC3339 time string.

# » 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) A list of Elastic IP IDs, all the EIPs belong to this region will be retrieved if the ID is "".
- name\_regex (Optional) A regex string to filter resulting eips by name.
- 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 It is a nested type which documented below.
- total\_count Total number of Elastic IPs 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 creation time of Elastic IP, formatted in RFC3339 time string.

- expire\_time The expiration time for Elastic IP, formatted in RFC3339 time string.
- charge\_mode The charge mode of Elastic IP. Possible values are: traffic as pay by traffic, bandwidth as pay by bandwidth.
- charge\_type The charge type of Elastic IP. 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 A tag assigned to Elastic IP.

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"
  most_recent = true
}

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 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.
- most\_recent (Optional) If more than one result is returned, use the most recent image.
- 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 It is a nested type which documented below.
- total\_count Total number of images that satisfy the condition.

The attribute (images) support the following:

- availability\_zone Availability zone where image is located.
- create\_time The time of creation for image, 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_zones.example.zones[0].id
}
```

# » Argument Reference

The following arguments are supported:

• 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 It is a nested type which documented below.
- total\_count Total number of zones that satisfy the condition.

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.

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

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

The following arguments are supported:

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

#### » Attributes Reference

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

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

The attribute (instances) support the following:

- availability zone Availability zone where instances are located.
- id The ID of instance.
- name The name of the instance.
- cpu The number of cores of virtual CPU, measureed in core.
- memory The size of memory, measured in MB (Megabyte).
- instance\_type The type of instance.
- charge\_type The charge type of instance, possible values are: year, month and dynamic as pay by hour.
- auto\_renew Whether to renew an instance automatically or not.
- remark The remarks of instance.
- tag A tag assigned to the instance.
- status Instance current status. Possible values are Initializing, Starting, Running, Stopping, Stopped, Install Fail and Rebooting.
- 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.
- private\_ip The private IP address assigned to the instance.
- vpc\_id The ID of VPC linked to the instance.
- subnet\_id The ID of subnet linked to the instance.
- 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.
- ip Elastic IP address.

# » ucloud\_disks

This data source provides a list of Disk resources according to their Disk ID and disk type.

# » Example Usage

```
data "ucloud_disks" "example" {}

output "first" {
   value = data.ucloud_disks.example.disks[0].id
}
```

### » Argument Reference

The following arguments are supported:

- availability\_zone (Optional) Availability zone where Disk are located.
   Such as: "cn-bj2-02". You may refer to list of availability zone
- ids (Optional) A list of Disk IDs, all the Disks belong to this region will be retrieved if the ID is "".
- disk\_type (Optional) The type of disk. Possible values are: data\_diskas cloud disk, ssd\_data\_disk as SSD cloud disk, system\_diskas system disk, ssd\_system\_disk as SSD system disk, rssd\_data\_disk as RDMA-SSD cloud disk.
- name\_regex (Optional) A regex string to filter resulting disks by name.
- 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:

- disks It is a nested type which documented below.
- total\_count Total number of Disks that satisfy the condition.

The attribute (disks) support the following:

- availability\_zone Availability zone where disk is located.
- id The ID of Disk.
- name The name of Disk.
- disk\_size The size of disk. Purchase the size of disk in GB.
- disk\_type The type of disk.
- charge\_type The charge type of disk. Possible values are: year as pay by year, month as pay by month, dynamic as pay by hour.
- tag A tag assigned to Disk.
- create\_time The creation time 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 lbs

This data source provides a list of Load Balancer resources according to their Load Balancer ID, VPC ID and Subnet ID.

#### » Example Usage

```
data "ucloud_lbs" "example" {
}

output "first" {
   value = data.ucloud_lbs.example.lbs[0].id
}
```

# » Argument Reference

- ids (Optional) A list of Load Balancer IDs, all the LBs belong to this region will be retrieved if the ID is "".
- name\_regex (Optional) A regex string to filter resulting lbs by name.

- vpc\_id (Optional) The ID of the VPC linked to the Load Balancers.
- subnet\_id (Optional) The ID of subnet that intrant load balancer belongs to.
- 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:

- lbs It is a nested type which documented below.
- total\_count Total number of Load Balancers that satisfy the condition.

The attribute (lbs) support the following:

- id The ID of Load Balancer.
- name The name of Load Balancer.
- internal Indicate whether the load balancer is intranet.
- tag A tag assigned to Load Balancer.
- remark The remarks of Load Balancer.
- vpc\_id The ID of the VPC linked to the Load Balancers.
- subnet\_id (Optional) The ID of subnet that intrant load balancer belongs to.
- private\_ip The IP address of intranet IP.
- create\_time The creation time of Load Balancer, formatted in RFC3339 time string.

The attribute (ip set) support the following:

- internet\_type Type of Load Balancer routes.
- ip Load Balancer address.

# » ucloud\_lb\_listeners

This data source provides a list of Load Balancer Listener resources according to their Load Balancer Listener ID.

```
data "ucloud_lb_listeners" "example" {
  load_balancer_id = "ulb-xxx"
}
```

```
output "first" {
  value = data.ucloud_lb_listeners.example.lb_listeners[0].id
}
```

The following arguments are supported:

• load\_balancer\_id - (Required) The ID of a load balancer.

• ids - (Optional) A list of LB Listener IDs, all the LB Listeners belong to this region will be retrieved if the ID is "".

- name\_regex (Optional) A regex string to filter resulting lb listeners by name
- 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:

- 1b listeners It is a nested type which documented below.
- total\_count Total number of LB listeners that satisfy the condition.

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The attribute (lb\_listeners) support the following:

- id The ID of LB Listener.
- name The name of LB Listener.
- protocol LB Listener protocol. Possible values: http, https if listen\_type is request\_proxy, tcp and udp if listen\_type is packets\_transmit.
- listen\_type The type of LB Listener. Possible values are request\_proxy and packets\_transmit.
- port Port opened on the LB Listener to receive requests, range: 1-65535.
- idle\_timeout Amount of time in seconds to wait for the response for in between two sessions if listen\_type is request\_proxy, range: 0-86400. 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 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.

- 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 Indicate whether the persistence session is enabled, it is
  invaild if persistence\_type 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 The type of session persistence of LB Listener. Possible values are: none as disabled, server\_insert as auto-generated string and user\_defined as cutom string. (Default: none).
- health\_check\_type Health check method. Possible values are port as port checking and path as http checking.
- path Health check path checking.
- domain Health check domain checking.
- status LB 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\_attachments

This data source provides a list of Load Balancer Attachment resources according to their Load Balancer Attachment ID.

### » Example Usage

```
data "ucloud_lb_attachments" "example" {
  load_balancer_id = "ulb-xxx"
  listener_id = "vserver-xxx"
}

output "first" {
  value = data.ucloud_lb_attachments.example.lb_attachments[0].id
}
```

#### » Argument Reference

- load\_balancer\_id (Required) The ID of a load balancer.
- listener\_id (Required) The ID of a listener server.

- ids (Optional) A list of LB Attachment IDs, all the LB Attachments belong to the Load Balancer listener will be retrieved if the ID is "".
- 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:

- lb\_attachments It is a nested type which documented below.
- total\_count Total number of LB Attachments that satisfy the condition.

The attribute (lb\_attachments) support the following:

- id The ID of LB Attachment.
- resource\_id The ID of a backend server.
- port Port opened on the backend server to receive requests, range: 1-65535.
- private\_ip The private ip address for backend servers.
- status The status of backend servers. Possible values are: normalRunning, exceptionRunning.

# » ucloud lb rules

This data source provides a list of Load Balancer Rule resources according to their Load Balancer Rule ID.

## » Example Usage

```
data "ucloud_lb_rules" "example" {
  load_balancer_id = "ulb-xxx"
  listener_id = "vserver-xxx"
}

output "first" {
  value = data.ucloud_lb_rules.example.lb_rules[0].id
}
```

# » Argument Reference

- load\_balancer\_id (Required) The ID of a load balancer.
- listener\_id (Required) The ID of a listener server.
- ids (Optional) A list of LB Rule IDs, all the LB Rules belong to the Load Balancer listener will be retrieved if the ID is "".
- 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:

- lb\_rules It is a nested type which documented below.
- total\_count Total number of LB Rules that satisfy the condition.

The attribute (lb\_rules) support the following:

- id The ID of LB Rule.
- path (Optional) The path of Content forward matching fields. path and domain cannot coexist.
- domain (Optional) The domain of content forward matching fields. path and domain cannot coexist.

# » ucloud\_lb\_ssls

This data source provides a list of Load Balancer SSL certificate resources according to their Load Balancer SSL certificate resource ID and name.

#### » Example Usage

```
data "ucloud_lb_ssls" "example" {
}
output "first" {
  value = data.ucloud_lb_ssls.example.lb_ssls[0].id
}
```

# » Argument Reference

- ids (Optional) A list of LB SSL certificate resource IDs, all the LB SSL certificate resources in the current region will be retrieved if the ID is "".
- name\_regex (Optional) A regex string to filter resulting LB SSL by name.
- 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:

- lb\_ssls It is a nested type which documented below.
- total\_count Total number of LB SSL certificate resources that satisfy the condition.

The attribute (lb\_ssls) support the following:

- id The ID of LB SSL certificate resource.
- name The name of LB SSL certificate resource.
- create\_time The time of creation for lb ssl, formatted in RFC3339 time string.

# » ucloud db instances

This data source provides a list of database instance resources according to their database instance ID and name.

# » Example Usage

```
data "ucloud_db_instances" "example" {}

output "first" {
   value = data.ucloud_db_instances.example.db_instances[0].id
}
```

#### » Argument Reference

The following arguments are supported:

• availability\_zone - (Optional) Availability zone where database instances are located. Such as: "cn-bj2-02". You may refer to list of availability zone

- ids (Optional) A list of database instance IDs, all the database instances belong to this region will be retrieved if the ID is "".
- name regex (Optional) A regex string to filter resulting database instances by name.
- 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:

- db\_instances It is a nested type which documented below.
- total count Total number of database instances that satisfy the condition.

The attribute (db\_instances) support the following:

- availability\_zone Availability zone where database instance is located.
- id The ID of database instance.
- name The name of database instance.
- instance\_type Specifies the type of database instance.
- standby zone Availability zone where the standby database instance is located for the high availability database instance with multiple zone.
- vpc id The ID of VPC linked to the database instances.
- subnet\_id The ID of subnet linked to the database instances.
- engine The type of database instance engine.
- engine version The database instance engine version.
- port The port on which the database instance accepts connections.
- private\_ip The private IP address assigned to the database instance.
- instance storage Specifies the allocated storage size in gigabytes (GB).
- charge\_type The charge type of db instance.
- backup\_count Specifies the number of backup saved per week.
- backup\_begin\_time Specifies when the backup starts, measured in hour.
- backup\_date Specifies whether the backup took place from Sunday to Saturday by displaying 7 digits. 0 stands for backup disabled 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 The backup for database instance such as "test.%" or table such as "city.address" specified in the black lists are not supported.
- tag A tag assigned to database instance.
- status Specifies the status of database instance, possible values are: Init, Fail, Starting, Running, Shutdown, Shutoff, Delete, Upgrading,

- Promoting, Recovering and Recover fail.
- create\_time The creation time of database instance, formatted by RFC3339 time string.
- expire\_time The expiration time of database instance, formatted by RFC3339 time string.
- modify\_time The modification time of database instance, formatted by RFC3339 time string.

# » ucloud\_security\_groups

This data source provides a list of Security Group resources according to their Security Group ID, name and resource id.

# » Example Usage

```
data "ucloud_security_groups" "example" {}

output "first" {
   value = data.ucloud_security_groups.example.security_groups[0].id
}
```

### » Argument Reference

The following arguments are supported:

- ids (Optional) A list of Security Group IDs, all the Security Group resources belong to this region will be retrieved if the ID is "".
- name\_regex (Optional) A regex string to filter resulting Security Group resources by name.
- type (Optional) The type of Security Group. Possible values are: recommend\_web as the default Web security group that UCloud recommend to users, default opened port include 80, 443, 22, 3389, recommend\_non\_web as the default non Web security group that UCloud recommend to users, default opened port include 22, 3389, user\_defined as the security groups defined by users. You may refer to security group.
- 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:

- security\_groups It is a nested type which documented below.
- total\_count Total number of Security Group resources that satisfy the condition.

The attribute (security\_groups) support the following:

- id The ID of Security Group.
- name The name of Security Group.
- rules It is a nested type which documented below.
- type The type of Security Group.
- remark The remarks of the security group.
- tag A tag assigned to the security group.
- create\_time The time of creation for the security group, formatted in RFC3339 time string.

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.

# » ucloud\_vpcs

This data source provides a list of VPC resources according to their VPC ID, name.

# » Example Usage

```
data "ucloud_vpcs" "example" {
}

output "first" {
   value = data.ucloud_vpcs.example.vpcs[0].id
}
```

#### » Argument Reference

- ids (Optional) A list of VPC IDs, all the VPC resources belong to this region will be retrieved if the ID is "".
- name\_regex (Optional) A regex string to filter resulting VPC resources by name.
- 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:

- vpcs It is a nested type which documented below.
- total\_count Total number of VPC resources that satisfy the condition.

The attribute (vpcs) support the following:

- id The ID of VPC.
- name The name of VPC.
- cidr\_blocks The CIDR blocks of VPC.
- tag A tag assigned to VPC.
- 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.

# » ucloud\_subnets

This data source provides a list of Subnet resources according to their Subnet ID, name and the VPC they belong to.

```
data "ucloud_subnets" "example" {
   vpc_id = "uvnet-xxx"
}

output "first" {
   value = data.ucloud_subnets.example.subnets[0].id
}
```

The following arguments are supported:

- ids (Optional) A list of Subnet IDs, all the Subnet resources belong to this region will be retrieved if the ID is "".
- vpc\_id (Optional) The id of the VPC that the desired Subnet belongs
   to.
- name\_regex (Optional) A regex string to filter resulting Subnet resources by name.
- 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:

- subnets It is a nested type which documented below.
- total\_count Total number of Subnet resources that satisfy the condition.

The attribute (subnets) support the following:

- id The ID of Subnet.
- name The name of Subnet.
- cidr\_block The cidr block of the desired Subnet.
- create\_time The time of creation of Subnet, formatted in RFC3339 time string.
- remark The remark of the Subnet.
- tag A tag assigned to Subnet.

# » ucloud\_nat\_gateways

This data source providers a list of Nat Gateway resources according to their ID and name.

```
data "ucloud_nat_gateways" "example" {
}
output "first" {
  value = data.ucloud_nat_gateways.example.nat_gateways[0].id
```

}

### » Argument Reference

The following arguments are supported:

- ids (Optional) A list of Nat Gateway IDs, all the Nat Gateways belongs to the defined region will be retrieved if this argument is "".
- name\_regex (Optional) A regex string to filter resulting Nat Gateways by name.
- 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:

- nat\_gateways It is a nested type. Nat Gateways documented below.
- total\_count Total number of Nat Gateways that satisfy the condition.

The attribute (nat\_gateways) support the following:

- id The ID of Nat Gateway.
- name The name of the Nat Gateway.
- remark The remarks of Nat Gateway.
- tag A tag assigned to the Nat Gateway.
- vpc id The ID of VPC linked to the Nat Gateway.
- subnet ids The list of subnet ID under the VPC.
- security\_group -The ID of the associated security group.
- create\_time The time of creation for Nat Gateway, formatted in RFC3339 time string.
- ip\_set It is a nested type which documented below.

The attribute (ip\_set) supports the following:

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

# » ucloud\_vpn\_gateways

This data source providers a list of VPN Gateway resources according to their ID, name, vpc and tag.

# » Example Usage

```
data "ucloud_vpn_gateways" "example" {
}

output "first" {
   value = data.ucloud_vpn_gateways.example.vpn_gateways[0].id
}
```

## » Argument Reference

The following arguments are supported:

- ids (Optional) A list of VPN Gateway IDs, all the VPN Gateways belongs to the defined region will be retrieved if this argument is "".
- name\_regex (Optional) A regex string to filter resulting VPN Gateways by name.
- output\_file (Optional) File name where to save data source results (after running terraform plan).
- tag (Optional) A tag assigned to VPN Gateway.
- vpc\_id (Optional) The ID of VPC linked to the VPN Gateway.

#### » Attributes Reference

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

- vpn\_gateways It is a nested type. VPN Gateways documented below.
- total\_count Total number of VPN Gateways that satisfy the condition.

The attribute (vpn\_gateways) support the following:

- id The ID of VPN Gateway.
- name The name of the VPN Gateway.
- remark The remarks of VPN Gateway.
- tag A tag assigned to the VPN Gateway.
- grade The type of the VPN Gateway.
- vpc\_id The ID of VPC linked to the VPN Gateway.
- charge\_type The charge type of VPN Gateway.
- auto renew Whether to renew an VPN Gateway automatically or not.
- create\_time The time of creation for VPN Gateway, formatted in RFC3339 time string.
- expire\_time The expiration time for VPN Gateway, formatted in RFC3339 time string.
- ip\_set It is a nested type which documented below.

The attribute (ip\_set) supports the following:

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

# » ucloud\_vpn\_customer\_gateways

This data source providers a list of VPN Customer Gateway resources according to their ID, name and tag.

## » Example Usage

```
data "ucloud_vpn_customer_gateways" "example" {
}
output "first" {
   value = data.ucloud_vpn_customer_gateways.example.vpn_customer_gateways[0].id
}
```

### » Argument Reference

The following arguments are supported:

- ids (Optional) A list of VPN Customer Gateway IDs, all the VPN Customer Gateways belongs to the defined region will be retrieved if this argument is "".
- name\_regex (Optional) A regex string to filter resulting VPN Customer Gateways by name.
- output\_file (Optional) File name where to save data source results (after running terraform plan).
- tag (Optional) A tag assigned to VPN Customer Gateway.

#### » Attributes Reference

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

- vpn\_customer\_gateways It is a nested type. VPN Customer Gateways documented below.
- total\_count Total number of VPN Customer Gateways that satisfy the condition.

The attribute (vpn\_customer\_gateways) support the following:

- id The ID of VPN Customer Gateway.
- name The name of the VPN Customer Gateway.
- remark The remarks of VPN Customer Gateway.
- tag A tag assigned to the VPN Customer Gateway.
- ip\_address The ip address of the VPN Customer Gateway.
- create\_time The time of creation for VPN Customer Gateway, formatted in RFC3339 time string.

# » ucloud\_vpn\_connections

This data source providers a list of VPN Connection resources according to their ID, name and tag.

# » Example Usage

```
data "ucloud_vpn_connections" "example" {
}

output "first" {
   value = data.ucloud_vpn_connections.example.vpn_connections[0].id
}
```

#### » Argument Reference

The following arguments are supported:

- ids (Optional) A list of VPN Connection IDs, all the VPN Connections belongs to the defined region will be retrieved if this argument is "".
- name\_regex (Optional) A regex string to filter resulting VPN Connections by name.
- output\_file (Optional) File name where to save data source results (after running terraform plan).
- tag (Optional) A tag assigned to VPN Connection.
- vpc\_id (Optional) The ID of VPC linked to the VPN Connection.

### » Attributes Reference

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

• vpn\_connections - It is a nested type. VPN Connections documented below.

total\_count - Total number of VPN Connections that satisfy the condition.

The attribute (vpn\_connections) support the following:

- (·F-\_-----) \*\*\*\*F\*\*\*\* -----
- name The name of the VPN Connection.

• id - The ID of VPN Connection.

- remark The remarks of VPN Connection.
- tag A tag assigned to the VPN Connection.
- vpn\_gateway\_id The ID of VPN Gateway.
- customer\_gateway\_id The ID of VPN Customer Gateway.
- vpc\_id The ID of VPC linked to the VPN Connection.
- create\_time The time of creation for VPN Connection, formatted in RFC3339 time string.
- ike\_config It is a nested type which documented below.
- ipsec\_config It is a nested type which documented below.

The attribute (ike\_config) supports the following:

- pre\_shared\_key The key used for authentication between the VPN gateway and the Customer gateway.
- ike\_version The version of the IKE protocol.
- exchange\_mode The negotiation exchange mode of IKE V1 of VPN gateway.
- $\bullet$   $\mbox{encryption\_algorithm}$  The encryption algorithm of IKE negotiation.
- authentication\_algorithm The authentication algorithm of IKE negotiation.
- local\_id The identification of the VPN gateway.
- remote\_id The identification of the Customer gateway.
- dh\_group The Diffie-Hellman group used by IKE negotiation.
- sa\_life\_time The Security Association lifecycle as the result of IKE negotiation.

The attribute (ipsec\_config) supports the following:

- local\_subnet\_ids The id list of Local subnet.
- remote\_subnets The ip address list of remote subnet.
- protocol The security protocol of IPSec negotiation.
- encryption\_algorithm The encryption algorithm of IPSec negotiation.
- authentication\_algorithm The authentication algorithm of IPSec negotiation.
- pfs\_dh\_group Whether the PFS of IPSec negotiation is on or off, disable as off, The Diffie-Hellman group as open.
- sa\_life\_time The Security Association lifecycle as the result of IPSec negotiation.
- sa\_life\_time\_bytes The Security Association lifecycle in bytes as the result of IPSec negotiation.

# » ucloud instance

Provides an UHost Instance resource.

Note If you try to update some properties which requires stopping the instance, you must set allow\_stopping\_for\_update to true in your config to allows Terraform to stop the instance to update its properties like instance\_type, root\_password, boot\_disk\_size, data\_disk\_size. In addition, once the instance complete creation, it takes around 10 minutes for boot disk initialization for the running instance, and the updates will only be made to some specific attributes (root\_password, boot\_disk\_size) if required once the instance initialization completed.

```
# Query default security group
data "ucloud_security_groups" "default" {
 type = "recommend_web"
# Query image
data "ucloud_images" "default" {
 availability_zone = "cn-bj2-04"
 name_regex = "^CentOS 6.5 64"
  image_type
                   = "base"
# Create web instance
resource "ucloud instance" "web" {
 availability_zone = "cn-bj2-04"
               = data.ucloud images.default.images[0].id
 image id
                 = "n-basic-2"
 instance_type
 root_password
                   = "wA1234567"
                   = "tf-example-instance"
 name
 tag
                   = "tf-example"
 # the default Web Security Group that UCloud recommend to users
 security_group = data.ucloud_security_groups.default.security_groups[0].id
}
# Create cloud disk
resource "ucloud_disk" "example" {
 availability_zone = "cn-bj2-04"
                   = "tf-example-instance"
 name
 disk_size
                   = 30
```

```
# Attach cloud disk to instance
resource "ucloud_disk_attachment" "example" {
  availability_zone = "cn-bj2-04"
  disk_id = ucloud_disk.example.id
  instance_id = ucloud_instance.web.id
}
```

The following arguments are supported:

- 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, please visit the instance type table

Note If you want to update this value, you must set allow\_stopping\_for\_update to true.

- allow\_stopping\_for\_update (Optional) If you try to update some properties which requires stopping the instance, you must set allow\_stopping\_for\_update to true in your config to allows Terraform to stop the instance to update its properties like instance\_type, root\_password, boot\_disk\_size, data\_disk\_size.
- 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 If you want to update this value, you must set allow\_stopping\_for\_update to true.

• 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. In addition, any reduction of boot disk size is not supported.

Note If you want to update this value, you must set allow\_stopping\_for\_update to true. In addition, when it is changed, you need to go to the instance for configuration.

- boot\_disk\_type (Optional) The type of boot disk. Possible values are: local\_normal and local\_ssd for local boot disk, cloud\_ssd for cloud SSD boot disk. (Default: local\_normal). The local\_ssd 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 fully support by all regions as data disk type, please proceed to UCloud console for more details. In addition, the data\_disk\_type must be same as boot\_disk\_type if specified.
- data\_disk\_size (Optional) The size of local data disk, measured in GB (GigaByte), 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. In addition, any reduction of data disk size is not supported.

Note If you want to update this value, you must set allow\_stopping\_for\_update to true. In addition, when it is changed, you need to go to the instance for configuration.

- 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 valid 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 auto-generate a name beginning with tf-instance.
- remark (Optional) The remarks of instance. (Default: "").
- security\_group (Optional) The ID of the associated security group.
- vpc\_id (Optional) The ID of VPC linked to the instance. If not defined vpc\_id, the instance will use the default VPC in the current region.
- subnet\_id (Optional) The ID of subnet. If defined vpc\_id, the subnet\_id is Required. If not defined vpc\_id and subnet\_id, the instance will use the default subnet in the current region.
- tag (Optional) A tag assigned to instance, 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).

- isolation\_group (Optional) The ID of the associated isolation group.
- private\_ip (Optional) The private IP address assigned to the instance.

#### » Attributes Reference

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, measured in core.
- memory The size of memory, measured in GB(Gigabyte).
- 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, Install Fail, 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 international BGP IP, BGP as china BGP IP and Private as private IP.
- ip Elastic IP address.

#### » Import

Instance can be imported using the id, e.g.

\$ terraform import ucloud\_instance.example uhost-abcdefg

# » ucloud\_disk

Provides a Cloud Disk resource.

**Note** If the disk have attached to the instance, the instance will reboot automatically to make the change take effect when update the disk\_size.

## » Example Usage

### » 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) The size of disk. Purchase the size of disk in GB. 1-8000 for a cloud disk, 1-4000 for SSD cloud disk. If the disk have attached to the instance, the instance will reboot automatically to make the change take effect when update the disk\_size.

<sup>•</sup> name - (Optional) The name of disk, should have 6-63 characters and only support Chinese, English, numbers, '-', '\_'. If not specified, terraform will auto-generate a name beginning with tf-disk.

<sup>•</sup> disk\_type - (Optional) The type of disk. Possible values are: data\_diskas cloud disk, ssd\_data\_disk as ssd cloud disk, rssd\_data\_disk as RDMA-SSD cloud disk (the rssd\_data\_disk only be supported in cn-bj2-05).(Default: data\_disk).

<sup>•</sup> 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 tag assigned 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 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.

### » Import

Disk can be imported using the id, e.g.

\$ terraform import ucloud\_disk.example bsm-abcdefg

# » 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 cloud disk
resource "ucloud_disk" "default" {
```

```
availability_zone = data.ucloud_zones.default.zones[0].id
                   = "tf-example-disk"
 name
 disk_size
                    = 10
}
# Create a web server
resource "ucloud_instance" "web" {
  availability_zone = data.ucloud_zones.default.zones[0].id
                  = "n-basic-2"
  instance_type
                = data.ucloud_images.default.images[0].id
  image id
 root_password = "wA1234567"
 name = "tf-example-disk"
  tag = "tf-example"
# attach cloud disk to instance
resource "ucloud_disk_attachment" "default" {
  availability_zone = data.ucloud_zones.default.zones[0].id
                  = ucloud_disk.default.id
 {\tt disk\_id}
  instance_id
                  = ucloud_instance.web.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 isolation group

Provides an Isolation Group resource. The Isolation Group is a logical group of UHost instance, which ensure that each UHost instance within a group is on a different physical machine. Up to seven UHost instance can be added per isolation group in a single availability\_zone.

```
resource "ucloud_isolation_group" "foo" {
  name = "tf-acc-isolation-group"
```

```
remark = "test"
}
```

The following arguments are supported:

- name (Optional) The name of the isolation group information which contains 1-63 characters and only support Chinese, English, numbers, '-', '\_', '', ',', '[', ']', ':'. If not specified, terraform will auto-generate a name beginning with tf-isolation-group.
- ${\tt remark}$  (Optional) The remarks of the isolation group. (Default: "").

# » Import

Isolation Group can be imported using the id, e.g.

\$ terraform import ucloud\_isolation\_group.example ig-abc123456

# » ucloud\_security\_group

Provides a Security Group resource.

```
resource "ucloud_security_group" "example" {
 name = "tf-example-security-group"
 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"
```

```
policy = "accept"
}
```

The following arguments are supported:

- rules (Required) A list of security group rules. Can be specified multiple times for each rules. Each rules supports fields documented below.
- 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 auto-generate a name beginning with tf-security-group.
- remark (Optional) The remarks of the security group. (Default: "").
- tag (Optional) A tag assigned to security group, 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).

#### » Block rules

The rules mapping supports the following:

- port\_range (Optional) The range of port numbers, range: 1-65535. (eg: port or port1-port2).
- cidr\_block (Optional) The cidr block of source.
- policy (Optional) Authorization policy. Possible values are: accept, drop.
- priority (Optional) Rule priority. Possible values are: high, medium,
   low.
- protocol (Optional) The protocol. Possible values are: 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.

# » Import

Security Group can be imported using the id, e.g.

\$ terraform import ucloud\_security\_group.example firewall-abc123456

# » ucloud\_eip

Provides an Elastic IP resource.

### » Example Usage

```
resource "ucloud_eip" "example" {
  bandwidth = 2
  charge_mode = "bandwidth"
  name = "tf-example-eip"
  tag = "tf-example"
  internet_type = "bgp"
}
```

# » Argument Reference

- internet\_type (Required) Type of Elastic IP routes. Possible values are: international as international BGP IP and bgp as china mainland 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 bandwidth. (Default: 1).
- share\_bandwidth\_package\_id (Optional) The Id of Share Bandwidth Package. If it is filled in, the charge\_mode can only be set with share\_bandwidth.
- 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 valid 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, share\_bandwidth as share bandwidth mode. (Default: bandwidthfor the

Elastic IP, share\_bandwidth for the Elastic IP with share bandwidth mode).

- 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 auto-generate a name beginning with tf-eip.
- remark (Optional) The remarks of the EIP. (Default: "").
- tag (Optional) A tag assigned to Elastic IP, 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 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, 1b as load balancer.

#### » Import

EIP can be imported using the id, e.g.

\$ terraform import ucloud\_eip.example eip-abcdefg

# » 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 = "0.0.0.0/0"
   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-basic-2"
 availability_zone = data.ucloud_zones.default.zones[0].id
             = data.ucloud_images.default.images[0].id
```

```
data_disk_size = 50
root_password = "wA1234567"
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

The following arguments are supported:

• internal - (Optional) Indicate whether the load balancer is intranet mode.(Default: "false")

- name (Optional) The name of the load balancer. If not specified, terraform will auto-generate a name beginning with tf-lb.
- charge\_type **Deprecated**, argument charge\_type is deprecated for optimizing parameters.
- vpc\_id (Optional) The ID of the VPC linked to the Load balancer, This argument is not required if default VPC.
- subnet\_id (Optional) The ID of subnet that intranet load balancer belongs to. This argument is not required if default subnet.
- tag (Optional) A tag assigned to load balancer, 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: "").

### » Attributes Reference

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 Deprecated attribute expire\_time is deprecated for optimizing outputs.
- 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.

#### » Import

LB can be imported using the id, e.g.

\$ terraform import ucloud\_lb.example ulb-abc123456

# » ucloud\_lb\_attachment

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

#### » Example Usage

# Query image

```
data "ucloud_images" "default" {
  availability_zone = "cn-bj2-04"
              = "^CentOS 6.5 64"
 name_regex
                  = "base"
  image_type
}
# Create Load Balancer
resource "ucloud_lb" "web" {
 name = "tf-example-lb"
 tag = "tf-example"
# Create Load Balancer Listener with http protocol
resource "ucloud lb listener" "default" {
  load_balancer_id = ucloud_lb.web.id
 protocol
                   = "http"
# Create web server
resource "ucloud_instance" "web" {
  instance_type = "n-basic-2"
  availability_zone = "cn-bj2-04"
 root_password = "wA1234567"
                = data.ucloud_images.default.images[0].id
  image_id
 name = "tf-example-lb"
  tag = "tf-example"
}
# Attach instances to Load Balancer
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
                   = 80
  port
}
```

- load\_balancer\_id (Required) The ID of a load balancer.
- listener\_id (Required) The ID of a listener server.
- resource\_id (Required) The ID of a backend server.

- 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).

#### » Attributes Reference

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.

Note This listen\_type only support when protocol is tcp in the extranet mode and the default value is request\_proxy. In addition, in the extranet mode, the listen\_type is request\_proxy if protocolis http or https, the listen\_type is packets\_transmit if protocolis udp. In the intranet mode, the listen\_type is packets\_transmit.

### » 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 = "http"
}
```

## » Argument Reference

The following arguments are supported:

• load\_balancer\_id - (Required) The ID of load balancer instance.

• protocol - (Required) Listener protocol. Possible values: http, https, tcp 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 auto-generate a name beginning with tf-lb-listener.

- listen\_type (Optional) The type of listener. Possible values are request\_proxy and packets\_transmit. When packets\_transmit was specified, you need to config the instances by yourself if the instances attach to the load balancer. You may refer to configuration instruction.
- port (Optional) Port opened on the listeners to receive requests, range: 1-65535. The default value: 80 as protocol is http, 443 as protocol is https, 1024 as protocol is tcp or udp.
- 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 roundrobin, source and weight\_roundrobin and leastconn are valid if listen\_type is request\_proxy.
- persistence (Optional) Indicate whether the persistence session is enabled, it is invalid if persistence\_type 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 key and user\_defined as customized key. (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.

#### » Attributes Reference

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.

#### » Import

LB Listener can be imported using the id, e.g.

\$ terraform import ucloud\_lb\_listener.example vserver-abcdefg

## » ucloud lb rule

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

Note The Load Balancer Rule can only be define while the protocol of lb listener is one of HTTP and HTTPS. In addition, should set one of domain and path if defined.

```
data "ucloud_images" "default" {
 availability_zone = "cn-bj2-02"
             = "^CentOS 6.5 64"
 name_regex
                   = "base"
 image_type
}
resource "ucloud_lb" "web" {
 name = "tf-example-lb"
 tag = "tf-example"
}
resource "ucloud lb listener" "default" {
 load_balancer_id = ucloud_lb.web.id
 protocol
                 = "http"
resource "ucloud_instance" "web" {
  instance_type = "n-basic-2"
 availability_zone = "cn-bj2-02"
 root_password = "wA1234567"
             = data.ucloud_images.default.images[0].id
  image_id
```

```
name = "tf-example-lb"
  tag = "tf-example"
}
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
                  = 80
 port
resource "ucloud_lb_rule" "example" {
  load balancer id = ucloud lb.web.id
 listener_id = ucloud_lb_listener.default.id
                  = ucloud lb attachment.default.*.id
 backend ids
                  = "www.ucloud.cn"
  domain
}
```

The following arguments are supported:

- load\_balancer\_id (Required) The ID of a load balancer.
- listener\_id (Required) The ID of a listener server.
- backend\_ids (Required) The IDs of the backend servers where rule applies, this argument is populated base on the backend\_id responded 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.

# ightarrow ucloud\_lb\_ssl

Provides a Load Balancer SSL certificate resource.

```
resource "ucloud_lb_ssl" "default" {
  name = "tf-example-lb-ssl"
```

```
private_key = file("private.key")
user_cert = file("user.crt")
ca_cert = file("ca.crt")
}
```

The following arguments are supported:

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

```
resource "ucloud_lb" "foo" {
  name = "tf-example-lb-ssl-attachment"
  tag = "tf-example"
}
resource "ucloud_lb_listener" "foo" {
  name = "tf-example-lb-ssl-attachment"
```

```
load_balancer_id = ucloud_lb.foo.id
 protocol
                = "https"
}
resource "ucloud_lb_ssl" "foo" {
         = "tf-example-lb-ssl-attachment"
 private_key = file("private.key")
 user_cert = file("user.crt")
 ca cert
           = file("ca.crt")
}
resource "ucloud_lb_ssl_attachment" "foo" {
 load balancer id = ucloud lb.foo.id
 listener_id = ucloud_lb_listener.foo.id
                  = ucloud_lb_ssl.foo.id
 ssl_id
}
```

The following arguments are supported:

- 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.

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

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

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 tag assigned 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.

#### » Import

VPC can be imported using the id, e.g.

\$ terraform import ucloud\_vpc.example uvnet-abc123456

## » ucloud vpc peering connection

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

## » Example Usage

#### » 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.ids
}</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 to.
- name (Optional) The name of the desired subnet. If not specified, terraform will auto-generate a name beginning with tf-subnet.
- remark (Optional) The remarks of the subnet. (Default: "").
- tag (Optional) A tag assigned to subnet, 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.

### » Import

Subnet can be imported using the id, e.g.

\$ terraform import ucloud\_subnet.example subnet-abc123456

# » ucloud\_nat\_gateway

Provides a Nat Gateway resource.

### » Example Usage

```
resource "ucloud_vpc" "foo" {
             = "tf-acc-nat-gateway-basic"
             = "tf-acc"
 tag
 cidr_blocks = ["192.168.0.0/16"]
resource "ucloud_subnet" "foo" {
 name = "tf-acc-nat-gateway-basic"
           = "tf-acc"
 cidr_block = "192.168.1.0/24"
 vpc_id = "${ucloud_vpc.foo.id}"
}
resource "ucloud_eip" "foo" {
         = "tf-acc-nat-gateway-basic"
 bandwidth
              = 1
 internet_type = "bgp"
 charge_mode = "bandwidth"
              = "tf-acc"
 tag
}
data "ucloud_security_groups" "foo" {
 type = "recommend_web"
}
resource "ucloud_nat_gateway" "foo" {
 vpc_id = ucloud_vpc.foo.id
 subnet_ids = [ucloud_subnet.foo.id]
eip_id = ucloud_eip.foo.id
                 = "tf-acc-nat-gateway-basic"
 name
                   = "tf-acc"
 tag
 security_group = data.ucloud_security_groups.foo.security_groups.0.id
}
```

### » Argument Reference

- vpc\_id (Required) The ID of VPC linked to the Nat Gateway.
- subnet\_ids (Required) The list of subnet ID under the VPC.
- eip\_id (Required) The ID of eip associate to the Nat Gateway.
- security\_group (Required) The ID of the associated security group.
- enable\_white\_list (Required) The boolean value to Controls whether or not start the whitelist mode.
- white\_list (Optional) The white list of instance under the Nat Gateway.
- name (Optional) The name of the Nat Gateway which contains 6-63 characters and only support Chinese, English, numbers, '-', '\_' and '.'. If not specified, terraform will auto-generate a name beginning with tf-nat-gateway-.
- remark (Optional) The remarks of the Nat Gateway. (Default: "").
- tag (Optional) A tag assigned to Nat Gateway, 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 Nat Gateway, formatted in RFC3339 time string.

## » Import

Nat Gateway can be imported using the id, e.g.

\$ terraform import ucloud\_nat\_gateway.example natgw-abc123456

# » ucloud\_nat\_gateway\_rule

Provides a Nat Gateway resource.

```
= "tf-acc"
 tag
 cidr_block = "192.168.1.0/24"
          = "${ucloud_vpc.foo.id}"
 vpc_id
}
resource "ucloud_eip" "foo" {
              = "tf-acc-nat-gateway-rule-basic"
              = 1
 bandwidth
 internet_type = "bgp"
 charge_mode = "bandwidth"
               = "tf-acc"
 tag
}
data "ucloud_security_groups" "foo" {
 type = "recommend_web"
data "ucloud_zones" "default" {}
data "ucloud_images" "default" {
 availability_zone = "${data.ucloud_zones.default.zones.0.id}"
                = "^CentOS 7.[1-2] 64"
 name_regex
                   = "base"
 image_type
}
resource "ucloud instance" "foo" {
                   = ucloud_vpc.foo.id
 vpc_id
                 = ucloud_subnet.foo.id
 subnet_id
 availability_zone = "${data.ucloud_zones.default.zones.0.id}"
                 = "${data.ucloud_images.default.images.0.id}"
 image_id
                 = "n-basic-1"
 instance_type
                   = "dynamic"
 charge_type
 name
                  = "tf-acc-nat-gateway-rule-basic"
                  = "tf-acc"
 tag
}
resource "ucloud_nat_gateway" "foo" {
                   = ucloud_vpc.foo.id
 vpc_id
 subnet_ids
                   = [ucloud_subnet.foo.id]
 eip_id
                 = ucloud_eip.foo.id
                 = "tf-acc-nat-gateway-rule-basic"
 name
                  = "tf-acc"
 tag
 enable_white_list = false
 security_group
                 = data.ucloud_security_groups.foo.security_groups.0.id
}
```

```
resource "ucloud_nat_gateway_rule" "foo" {
 nat_gateway_id = ucloud_nat_gateway.foo.id
                = "tcp"
 protocol
                = ucloud_eip.foo.id
 src_eip_id
  src_port_range = "88"
                = ucloud_instance.foo.private_ip
  dst_ip
 dst_port_range = "80"
                = "tf-acc-nat-gateway-rule-basic"
 name
resource "ucloud_nat_gateway_rule" "bar" {
 nat_gateway_id = ucloud_nat_gateway.foo.id
 protocol
                = "tcp"
  src eip id
             = ucloud eip.foo.id
 src_port_range = "90-100"
 dst ip
            = ucloud_instance.foo.private_ip
 dst_port_range = "90-100"
                = "tf-acc-nat-gateway-rule-basic"
 name
}
```

The following arguments are supported:

- nat\_gateway\_id (Required) The ID of the Nat Gateway.
- protocol (Required) The protocol of the Nat Gateway Rule. Possible values: tcp, udp.
- src eip id (Required) The ID of eip associate to the Nat Gateway.
- src\_port\_range (Required) The range of port numbers of the eip, range: 1-65535. (eg: port or port1-port2).
- dst\_ip (Required) The private ip of instance bound to the jNAT gateway.
- dst\_port\_range (Required) The range of port numbers of the private ip, range: 1-65535. (eg: port or port1-port2).
- name (Optional) The name of the Nat Gateway Rule which contains 6-63 characters and only support Chinese, English, numbers, '-', '\_' and ''. If not specified, terraform will auto-generate a name beginning with tf-nat-gateway-rule-.

# » ucloud\_vip

Provides a VIP resource.

## » Example Usage

```
resource "ucloud_vpc" "foo" {
               = "tf-acc-vip"
   name
    tag
               = "tf-acc"
    cidr_blocks = ["192.168.0.0/16"]
}
resource "ucloud subnet" "foo" {
   name
              = "tf-acc-vip"
              = "tf-acc"
    tag
    cidr_block = "192.168.1.0/24"
    vpc_id
              = ucloud_vpc.foo.id
}
resource "ucloud_vip" "foo" {
               = ucloud_vpc.foo.id
    vpc_id
    subnet_id = ucloud_subnet.foo.id
              = "tf-acc-vip-basic"
   name
               = "test"
   remark
}
```

#### » Argument Reference

The following arguments are supported:

- vpc\_id (Required) The ID of VPC linked to the VIP.
- subnet\_id (Required) The ID of subnet. If defined vpc\_id, the subnet\_id is Required.
- name (Optional) The name of VIP. If not specified, terraform will autogenerate a name beginning with tf-vip-.
- tag (Optional) A tag assigned to VIP, 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 VIP. (Default: "").

#### » Attributes Reference

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

- ip\_address The ip address of the VIP.
- create\_time The time of creation for VIP, 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

#### » Argument Reference

- availability\_zone (Required) Availability zone where database instance is located. Such as: "cn-bj2-02". You may refer to list of availability
- 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 auto-generate a name beginning with tf-db-instance.
- instance\_storage (Required) Specifies the allocated storage size in gigabytes (GB), range from 20 to 4500GB. 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 6GB;
  - 1000GB if the memory chosen is from 8 to 16GB;

- 2000GB if the memory chosen is 24GB or 32GB;
- 3500GB if the memory chosen is 48GB or 64GB;
- 4500GB if the memory chosen is equal or more than 96GB:
- instance\_type (Required) The type of database instance, please visit the instance type table.
- 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 auto-generate a password.
- 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 disabled 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 supported.
- tag (Optional) A tag assigned to database instance, 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:

- status Specifies the status of database, possible values are: Init, Fail, Starting, Running, Shutdown, Shutoff, Delete, Upgrading, Promoting, Recovering and Recover fail.
- private\_ip The private IP address assigned to the database instance.
- 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.

## » Import

DB Instance can be imported using the id, e.g.

\$ terraform import ucloud\_db\_instance.example udbha-abc123456

## » ucloud redis instance

The UCloud Redis instance is a key-value online storage service compatible with the Redis protocol.

```
data "ucloud_zones" "default" {}
resource "ucloud_redis_instance" "master" {
  availability_zone = data.ucloud_zones.default.zones[0].id
                  = "redis-master-2"
  instance_type
 password
                   = "2018_Tfacc"
                 = "4.0"
  engine_version
 name = "tf-example-redis-master"
  tag = "tf-example"
}
resource "ucloud_redis_instance" "distributed" {
  availability_zone = data.ucloud_zones.default.zones[0].id
  instance type
                  = "redis-distributed-16"
```

```
name = "tf-example-redis-distributed"
tag = "tf-example"
}
```

The following arguments are supported:

- availability\_zone (Required) Availability zone where Redis instance is located. Such as: "cn-bj2-02". You may refer to list of availability zone
- instance\_type (Required) The type of Redis instance, please visit the instance type table for more details.
- name (Optional) The name of Redis instance, which contains 6-63 characters and only support English, numbers, '-', '\_'. If not specified, terraform will auto-generate a name beginning with tf-redis-instance.
- charge\_type (Optional) The charge type of Redis 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 Redis instance (Default: 1). The value is 0 when pay by month and the instance will be valid till the last day of that month. It is not required when dynamic (pay by hour).
- tag (Optional) A tag assigned to Redis instance, 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 Redis instance.
- subnet\_id (Optional) The ID of subnet linked to the Redis instance.
- engine\_version (active-standby Redis Required) The version of engine of active-standby Redis. Possible values are: 3.0, 3.2 and 4.0.
- password (Optional) The password for active-standby Redis instance which should have 6-36 characters. It must contain at least 3 items of Capital letters, small letter, numbers and special characters. The special characters include -\_.

**Note** The active-standby Redis doesn't support to be created on multiple zones with Terraform.

#### » Attributes Reference

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

- ip\_set ip\_set is a nested type. ip\_set documented below.
- create\_time The creation time of Redis instance, formatted by RFC3339 time string.
- expire\_time The expiration time of Redis instance, formatted by RFC3339 time string.
- status The status of KV Redis instance.

The attribute (ip\_set) support the following:

• ip - The virtual ip of Redis instance.

- port The port on which Redis instance accepts connections, it is 6379 by default.

# » ucloud memcache instance

The UCloud Memcache instance is a key-value online storage service compatible with the Memcached protocol.

### » Example Usage

```
data "ucloud_zones" "default" {}
resource "ucloud_memcache_instance" "master" {
  availability_zone = data.ucloud_zones.default.zones[0].id
  instance_type
                   = "memcache-master-2"
 name = "tf-example-memcache"
  tag = "tf-example"
```

### » Argument Reference

- availability\_zone (Required) Availability zone where Memcache instance is located. Such as: "cn-bj2-02". You may refer to list of availability
- instance\_type (Required) The type of Memcache instance, please visit the instance type table for more details.

- name (Optional) The name of Memcache instance, which contains 6-63 characters and only support English, numbers, '-', '\_'. If not specified, terraform will auto-generate a name beginning with tf-memcache-instance.
- charge\_type (Optional) The charge type of Memcache 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 Memcache instance (Default: 1). The value is 0 when pay by month and the instance will be valid till the last day of that month. It is not required when dynamic (pay by hour).
- tag (Optional) A tag assigned to Memcache instance, 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 Memcache instance.
- subnet\_id (Optional) The ID of subnet linked to the Memcache instance.

#### » Attributes Reference

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

- ip\_set ip set is a nested type. ip set documented below.
- create\_time The creation time of Memcache instance, formatted by RFC3339 time string.
- expire\_time The expiration time of Memcache instance, formatted by RFC3339 time string.
- status The status of KV Memcache instance.

The attribute (ip\_set) support the following:

- ip The virtual ip of Memcache instance.
- port The port on which Memcache instance accepts connections, it is 6379 by default.

# » ucloud\_redis\_instance

The UCloud Redis instance is a key-value online storage service compatible with the Redis protocol.

#### » Example Usage

data "ucloud\_zones" "default" {}

```
resource "ucloud_redis_instance" "master" {
  availability_zone = data.ucloud_zones.default.zones[0].id
  instance_type
                    = "redis-master-2"
  password
                    = "2018_Tfacc"
                    = "4.0"
  engine_version
 name = "tf-example-redis-master"
  tag = "tf-example"
}
resource "ucloud_redis_instance" "distributed" {
  availability_zone = data.ucloud_zones.default.zones[0].id
                    = "redis-distributed-16"
  instance type
 name = "tf-example-redis-distributed"
  tag = "tf-example"
}
```

- availability\_zone (Required) Availability zone where Redis instance is located. Such as: "cn-bj2-02". You may refer to list of availability zone
- instance\_type (Required) The type of Redis instance, please visit the instance type table for more details.
- name (Optional) The name of Redis instance, which contains 6-63 characters and only support English, numbers, '-', '\_'. If not specified, terraform will auto-generate a name beginning with tf-redis-instance.
- charge\_type (Optional) The charge type of Redis 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 Redis instance (Default: 1). The value is 0 when pay by month and the instance will be valid till the last day of that month. It is not required when dynamic (pay by hour).
- tag (Optional) A tag assigned to Redis instance, 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 Redis instance.
- subnet id (Optional) The ID of subnet linked to the Redis instance.

- engine\_version (active-standby Redis Required) The version of engine of active-standby Redis. Possible values are: 3.0, 3.2 and 4.0.
- password (Optional) The password for active-standby Redis instance which should have 6-36 characters. It must contain at least 3 items of Capital letters, small letter, numbers and special characters. The special characters include -\_.

**Note** The active-standby Redis doesn't support to be created on multiple zones with Terraform.

#### » Attributes Reference

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

- ip\_set ip\_set is a nested type. ip\_set documented below.
- create\_time The creation time of Redis instance, formatted by RFC3339 time string.
- expire\_time The expiration time of Redis instance, formatted by RFC3339 time string.
- status The status of KV Redis instance.

The attribute (ip\_set) support the following:

- ip The virtual ip of Redis instance.
- port The port on which Redis instance accepts connections, it is 6379 by default.

# » ucloud\_memcache\_instance

The UCloud Memcache instance is a key-value online storage service compatible with the Memcached protocol.

```
data "ucloud_zones" "default" {}

resource "ucloud_memcache_instance" "master" {
   availability_zone = data.ucloud_zones.default.zones[0].id
   instance_type = "memcache-master-2"

   name = "tf-example-memcache"
   tag = "tf-example"
}
```

The following arguments are supported:

- availability\_zone (Required) Availability zone where Memcache instance is located. Such as: "cn-bj2-02". You may refer to list of availability zone
- instance\_type (Required) The type of Memcache instance, please visit the instance type table for more details.

• name - (Optional) The name of Memcache instance, which contains 6-63 characters and only support English, numbers, '-', '\_'. If not specified, terraform will auto-generate a name beginning with tf-memcache-instance.

- charge\_type (Optional) The charge type of Memcache 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 Memcache instance (Default: 1). The value is 0 when pay by month and the instance will be valid till the last day of that month. It is not required when dynamic (pay by hour).
- tag (Optional) A tag assigned to Memcache instance, 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 Memcache instance.
- subnet id (Optional) The ID of subnet linked to the Memcache instance.

#### » Attributes Reference

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

- ip\_set ip set is a nested type. ip set documented below.
- create\_time The creation time of Memcache instance, formatted by RFC3339 time string.
- expire\_time The expiration time of Memcache instance, formatted by RFC3339 time string.
- status The status of KV Memcache instance.

The attribute (ip\_set) support the following:

- $\bullet~$  ip The virtual ip of Memcache instance.
- port The port on which Memcache instance accepts connections, it is 6379 by default.

# » ucloud\_vpn\_gateway

Provides a VPN Gateway resource.

#### » Example Usage

```
resource "ucloud_vpc" "foo" {
               = "tf-acc-vpn-gateway-basic"
   name
               = "tf-acc"
    tag
    cidr_blocks = ["192.168.0.0/16"]
}
resource "ucloud_eip" "foo" {
   name
                 = "tf-acc-vpn-gateway-basic"
   bandwidth
                 = 1
   internet_type = "bgp"
    charge mode = "bandwidth"
                 = "tf-acc"
    tag
}
resource "ucloud_vpn_gateway" "foo" {
    vpc_id
           = ucloud_vpc.foo.id
   grade
              = "enhanced"
              = ucloud_eip.foo.id
    eip_id
               = "tf-acc-vpn-gateway-basic"
   name
               = "tf-acc"
    tag
}
```

#### » Argument Reference

- vpc\_id (Required) The ID of VPC linked to the VPN Gateway.
- grade (Required) The type of the VPN Gateway. Possible values: standard, enhanced. standard recommended application scenario: Applicable to services with bidirectional peak bandwidth of 1M~50M; enhanced recommended application scenario: Suitable for services with bidirectional peak bandwidths of 50M~100M.
- eip\_id (Required) The ID of eip associate to the VPN Gateway.
- security\_group (Required) The ID of the associated security group.

<sup>•</sup> charge\_type - (Optional) The charge type of VPN Gateway, 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 VPN Gateway (Default: 1). The value is 0 when pay by month and the instance will be valid till the last day of that month. It is not required when dynamic (pay by hour).
- name (Optional) The name of the VPN Gateway which contains 1-63 characters and only support Chinese, English, numbers, '-', '\_' and ''. If not specified, terraform will auto-generate a name beginning with tf-vpn-gateway-.
- remark (Optional) The remarks of the VPN Gateway. (Default: "").
- tag (Optional) A tag assigned to VPN Gateway, 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 creation time for VPN Gateway, formatted in RFC3339 time string.
- expire\_time The expiration time for VPN Gateway, formatted in RFC3339 time string.

## » Import

VPN Gateway can be imported using the id, e.g.

\$ terraform import ucloud\_vpn\_gateway.example vpngw-abc123456

# » ucloud\_vpn\_customer\_gateway

Provides a VPN Customer Gateway resource.

```
resource "ucloud_vpn_customer_gateway" "foo" {
    ip_address = "10.0.0.1"
    name = "tf-acc-vpn-customer-gateway-basic"
    tag = "tf-acc"
}
```

The following arguments are supported:

- ip\_address (Required) The ip address of the VPN Customer Gateway.
- name (Optional) The name of the VPN Customer Gateway which contains 1-63 characters and only support Chinese, English, numbers, '-', '\_' and ''. If not specified, terraform will auto-generate a name beginning with tf-vpn-customer-gateway-.
- remark (Optional) The remarks of the VPN Customer Gateway. (Default: "").
- tag (Optional) A tag assigned to VPN Customer Gateway, 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 creation time for VPN Customer Gateway, formatted in RFC3339 time string.

#### » Import

VPN Customer Gateway can be imported using the id, e.g.

\$ terraform import ucloud\_vpn\_gateway.example remotevpngw-abc123456

# » ucloud\_vpn\_connection

Provides a IPSec VPN Gateway Connection resource.

```
= "tf-acc"
 tag
  cidr_block = "192.168.1.0/24"
          = "${ucloud_vpc.foo.id}"
 vpc_id
}
resource "ucloud_eip" "foo" {
               = "tf-acc-vpn-connection-basic"
               = 1
 bandwidth
 internet_type = "bgp"
  charge_mode = "bandwidth"
               = "tf-acc"
 tag
}
resource "ucloud_vpn_gateway" "foo" {
 vpc_id = ucloud_vpc.foo.id
 grade = "standard"
 eip_id = ucloud_eip.foo.id
 name = "tf-acc-vpn-connection-basic"
        = "tf-acc"
 tag
}
resource "ucloud_vpn_customer_gateway" "foo" {
  ip_address = "10.0.0.1"
            = "tf-acc-vpn-connection-basic"
 name
            = "tf-acc"
  tag
}
resource "ucloud_vpn_connection" "foo" {
  vpn_gateway_id = ucloud_vpn_gateway.foo.id
  customer_gateway_id = ucloud_vpn_customer_gateway.foo.id
 vpc_id
                     = ucloud_vpc.foo.id
                     = "tf-acc-vpn-connection-basic"
 name
                     = "tf-acc"
 tag
                     = "test"
 remark
 ike_config {
    pre_shared_key = "test_2019"
  ipsec_config {
    local_subnet_ids = [ucloud_subnet.foo.id]
   remote_subnets = ["10.0.0.0/24"]
 }
}
```

The following arguments are supported:

- vpc\_id (Required) The ID of VPC linked to the VPN Gateway Connection.
- vpn gateway id (Required) The ID of the VPN Customer Gateway.
- customer\_gateway\_id (Required) The grade of the VPN Gateway
- ike\_config (Required) The configurations of IKE negotiation. Each ike config supports fields documented below.
- ipsec\_config (Required) The configurations of IPSec negotiation. Each ipsec\_config supports fields documented below.
- name (Optional) The name of the VPN Gateway Connection which contains 1-63 characters and only support Chinese, English, numbers and special characters: -\_.. If not specified, terraform will auto-generate a name beginning with tf-vpn-connection-.
- remark (Optional) The remarks of the VPN Gateway Connection. (Default: "").
- tag (Optional) A tag assigned to VPN Gateway Connection, 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).

#### » Block ike\_config

The ike\_config mapping supports the following:

- pre\_shared\_key (Required) The key used for authentication between the VPN gateway and the Customer gateway which contains 1-128 characters and only support English, numbers and special characters: !@#\$%^&\*()\_+-=[]:,./'~.
- ike\_version (Optional) The version of the IKE protocol which only be supported IKE V1 protocol at present. Possible values: ikev1. (Default: ikev1)
- exchange\_mode (Optional) The negotiation exchange mode of IKE V1 of VPN gateway. Possible values: main (main mode), aggressive (aggressive mode). (Default: main)
- encryption\_algorithm (Optional) The encryption algorithm of IKE negotiation. Possible values: aes128, aes192, aes256, aes512, 3des. (Default: aes128).
- authentication\_algorithm (Optional) The authentication algorithm of IKE negotiation. Possible values: sha1, md5, sha2-256. (Default: sha1)
- local\_id (Optional) The identification of the VPN gateway.
- remote\_id (Optional) The identification of the Customer gateway.

- dh\_group (Optional) The Diffie-Hellman group used by IKE negotiation.
   Possible values: 1, 2, 5, 14, 15, 16. (Default:15)
- sa\_life\_time (Optional) The Security Association lifecycle as the result of IKE negotiation. Unit: second. Range: 600-604800. (Default: 86400)

#### » Block ipsec config

The ipsec\_config mapping supports the following:

- local\_subnet\_ids (Required) The id list of Local subnet.
- remote\_subnets (Required) The ip address list of remote subnet.
- protocol (Optional) The security protocol of IPSec negotiation. Possible values: esp, ah. (Default:esp)
- encryption\_algorithm (Optional) The encryption algorithm of IPSec negotiation. Possible values: aes128, aes192, aes256, aes512, 3des. (Default: aes128).
- authentication\_algorithm (Optional) The authentication algorithm of IPSec negotiation. Possible values: sha1, md5. (Default: sha1)
- pfs\_dh\_group (Optional) Whether the PFS of IPSec negotiation is on or off, disable as off, The Diffie-Hellman group as open. Possible values: disable, 1, 2, 5, 14, 15, 16. (Default:disable)
- sa\_life\_time (Optional) The Security Association lifecycle as the result of IPSec negotiation. Unit: second. Range: 1200-604800. (Default: 3600)
- sa\_life\_time\_bytes (Optional) The Security Association lifecycle in bytes as the result of IPSec negotiation. Unit: second. Range: 1200-604800. (Default: 3600)

#### » Attributes Reference

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

- create\_time The creation time for VPN Gateway Connection, formatted in RFC3339 time string.
- expire\_time The expiration time for VPN Gateway Connection, formatted in RFC3339 time string.

#### » Import

VPN Connection can be imported using the id, e.g.

\$ terraform import ucloud\_vpn\_connection.example vpntunnel-abc123456