» tencentcloud_as_scaling_configs

Use this data source to query scaling configuration information.

» Example Usage

```
data "tencentcloud_as_scaling_configs" "as_configs" {
  configuration_id = "asc-oqio4yyj"
  result_output_file = "my_test_path"
}
```

» Argument Reference

The following arguments are supported:

- configuration_id (Optional) Launch configuration ID.
- configuration_name (Optional) Launch configuration name.
- result_output_file (Optional) Used to save results.

» Attributes Reference

- configuration_list A list of configuration. Each element contains the following attributes:
 - configuration_id Launch configuration ID.
 - configuration_name Launch configuration name.
 - create_time The time when the launch configuration was created.
 - data_disk Configurations of data disk.
 - disk_size Volume of disk in GB. Default is 0.
 - disk_type Type of disk.
 - snapshot_id Data disk snapshot ID.
 - enhanced_monitor_service Whether to activate cloud monitor service.
 - enhanced_security_service Whether to activate cloud security service.
 - image_id ID of available image, for example img-8toqc6s3.
 - instance_tags A tag list associates with an instance.
 - instance_types Instance type list of the scaling configuration.
 - internet_charge_type Charge types for network traffic.
 - internet_max_bandwidth_out Max bandwidth of Internet access in Mbps.
 - key_ids ID list of login keys

- project_id ID of the project to which the configuration belongs.
 Default value is 0.
- public_ip_assigned Specify whether to assign an Internet IP address.
- security_group_ids Security groups to which the instance belongs.
- status Current statues of a launch configuration.
- system_disk_size System disk size of the scaling configuration in GB.
- system_disk_type System disk category of the scaling configuration.
- user_data Base64-encoded User Data text.

» tencentcloud_as_scaling_groups

Use this data source to query the detail information of an existing autoscaling group.

» Example Usage

```
data "tencentcloud_as_scaling_groups" "as_scaling_groups" {
   scaling_group_name = "myasgroup"
   configureation_id = "asc-oqio4yyj"
   result_output_file = "my_test_path"
}
```

» Argument Reference

The following arguments are supported:

- configuration_id (Optional) Filter results by launch configuration ID.
- result_output_file (Optional) Used to save results.
- scaling_group_id (Optional) A specified scaling group ID used to query.
- scaling_group_name (Optional) A scaling group name used to query.

» Attributes Reference

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

• scaling_group_list - A list of scaling group. Each element contains the following attributes:

- configuration_id Launch configuration ID.
- create_time The time when the AS group was created.
- default_cooldown Default cooldown time of scaling group.
- desired_capacity The desired number of CVM instances.
- forward_balancer_ids A lsit of application clb ids.
- listener_id Listener ID for application load balancers.
- load_balancer_id ID of available load balancers.
- location_id ID of forwarding rules.
- target_attribute Attribute list of target rules.
 - * port Port number.
 - * weight Weight.
- instance_count Number of instance.
- load_balancer_ids A lsit of traditional clb ids which the CVM instances attached to.
- max size The maximum number of CVM instances.
- min_size The minimum number of CVM instances.
- project_id ID of the project to which the scaling group belongs.
 Default value is 0.
- retry_policy A retry policy can be used when a creation fails.
- scaling_group_id Auto scaling group ID.
- scaling_group_name Auto scaling group name.
- status Current status of a scaling group.
- subnet_ids A list of subnet IDs.
- termination_policies A policy used to select a CVM instance to be terminated from the scaling group.
- vpc id ID of the vpc with which the instance is associated.
- zones A list of available zones.

» tencentcloud_as_scaling_policies

Use this data source to query detailed information of scaling policy.

» Example Usage

```
data "tencentcloud_as_scaling_policies" "as_scaling_policies" {
   scaling_policy_id = "asg-mvyghxu7"
   result_output_file = "mytestpath"
}
```

» Argument Reference

The following arguments are supported:

- policy_name (Optional) Scaling policy name.
- result_output_file (Optional) Used to save results.
- scaling_group_id (Optional) Scaling group ID.
- scaling_policy_id (Optional) Scaling policy ID.

» Attributes Reference

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

- scaling_policy_list A list of scaling policy. Each element contains the following attributes:
 - adjustment_type Adjustment type of the scaling rule.
 - adjustment_value Adjustment value of the scaling rule.
 - comparison_operator Comparison operator.
 - continuous time Retry times.
 - cooldown Cooldown time of the scaling rule.
 - metric_name Name of an indicator.
 - notification_user_group_ids Users need to be notified when an alarm is triggered.
 - period Time period in second.
 - policy_name Scaling policy name.
 - scaling_group_id Scaling policy ID.
 - statistic Statistic types.
 - threshold Alarm threshold.

» tencentcloud_availability_zones

Use this data source to get the available zones in the current region. By default only AVAILABLE zones will be returned, but UNAVAILABLE zones can also be fetched when include unavailable is specified.

» Example Usage

```
data "tencentcloud_availability_zones" "my_favourite_zone" {
  name = "ap-guangzhou-3"
}
```

» Argument Reference

• include_unavailable - (Optional) A bool variable Indicates that the query will include UNAVAILABLE zones.

 name - (Optional) When specified, only the zone with the exactly name match will return.

» Attributes Reference

A list of zones will be exported and its every element contains the following attributes:

- id An internal id for the zone, like 200003, usually not so useful for end user.
- name The english name for the zone, like ap-guangzhou-3.
- description The description for the zone, unfortunately only Chinese characters at this stage.
- state The state for the zone, indicate availability using AVAILABLE and UNAVAILABLE values.

» tencentcloud_cbs_snapshots

Use this data source to query detailed information of CBS snapshots.

» Example Usage

```
data "tencentcloud_cbs_snapshots" "snapshots" {
   snapshot_id = "snap-f3io7adt"
   result_output_file = "mytestpath"
}
```

» Argument Reference

The following arguments are supported:

- availability_zone (Optional) The available zone that the CBS instance locates at.
- project_id (Optional) ID of the project within the snapshot.
- result_output_file (Optional) Used to save results.
- snapshot_id (Optional) ID of the snapshot to be queried.
- snapshot_name (Optional) Name of the snapshot to be queried.
- storage_id (Optional) ID of the the CBS which this snapshot created from.
- storage_usage (Optional) Types of CBS which this snapshot created from, and available values include SYSTEM_DISK and DATA_DISK.

» Attributes Reference

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

- snapshot_list A list of snapshot. Each element contains the following attributes:
 - availability_zone The available zone that the CBS instance locates at.
 - create_time Creation time of snapshot.
 - encrypt Indicates whether the snapshot is encrypted.
 - percent Snapshot creation progress percentage.
 - project_id ID of the project within the snapshot.
 - snapshot_id ID of the snapshot.
 - snapshot_name Name of the snapshot.
 - storage_id ID of the the CBS which this snapshot created from.
 - storage_size Volume of storage which this snapshot created from.
 - storage_usage Types of CBS which this snapshot created from.

» tencentcloud_cbs_storages

Use this data source to query detailed information of CBS storages.

» Example Usage

» Argument Reference

The following arguments are supported:

- availability_zone (Optional) The available zone that the CBS instance locates at.
- project_id (Optional) ID of the project with which the CBS is associated.
- result_output_file (Optional) Used to save results.
- storage_id (Optional) ID of the CBS to be queried.
- storage_name (Optional) Name of the CBS to be queried.
- storage_type (Optional) Types of storage medium, and available values include CLOUD_BASIC, CLOUD_PREMIUM and CLOUD_SSD.

• storage_usage - (Optional) Types of CBS, and available values include SYSTEM_DISK and DATA_DISK.

» Attributes Reference

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

- storage_list A list of storage. Each element contains the following attributes:
 - attached Indicates whether the CBS is mounted the CVM.
 - availability_zone The zone of CBS.
 - create_time Creation time of CBS.
 - encrypt Indicates whether CBS is encrypted.
 - instance_id ID of the CVM instance that be mounted by this CBS
 - project_id ID of the project.
 - status Status of CBS.
 - storage_id ID of CBS.
 - storage_name Name of CBS.
 - storage_size Volume of CBS.
 - storage_type Types of storage medium.
 - storage_usage Types of CBS.
 - tags The available tags within this CBS.

» tencentcloud ccn bandwidth limits

Use this data source to query detailed information of CCN bandwidth limits.

```
variable "other_region1" {
  default = "ap-shanghai"
}

resource "tencentcloud_ccn" "main" {
  name = "ci-temp-test-ccn"
  description = "ci-temp-test-ccn-des"
  qos = "AG"
}

data "tencentcloud_ccn_bandwidth_limits" "limit" {
  ccn_id = "${tencentcloud_ccn.main.id}"
}
```

The following arguments are supported:

- ccn_id (Required, ForceNew) ID of the CCN to be queried.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

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

- limits The bandwidth limits of regions
 - bandwidth_limit Limitation of bandwidth.
 - region Limitation of region.

» tencentcloud_ccn_instances

Use this data source to query detailed information of CCN instances.

The following arguments are supported:

- ccn id (Optional, ForceNew) ID of the CCN to be gueried.
- name (Optional, ForceNew) Name of the CCN to be queried.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

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

- instance_list Information list of CCN.
 - attachment_list Information list of instance is attached.
 - attached_time Time of attaching.
 - cidr_block A network address block of the instance that is attached.
 - instance_id ID of instance is attached.
 - instance_region The region that the instance locates at.
 - instance_type Type of attached instance network, and available values include VPC, DIRECTCONNECT and BMVPC.
 - state States of instance is attached, and available values include PENDING, ACTIVE, EXPIRED, REJECTED, DELETED, FAILED(asynchronous forced disassociation after 2 hours), ATTACHING, DETACHING and DETACHFAILED(asynchronous forced disassociation after 2 hours).
 - ccn_id ID of the CCN.
 - create_time Creation time of resource.
 - description Description of the CCN.
 - name Name of the CCN.
 - qos Service quality of CCN, and the available value include 'PT', 'AU', 'AG'. The default is 'AU'.
 - state States of instance. The available value include 'ISO-LATED' (arrears) and 'AVAILABLE'.

» tencentcloud_container_cluster_instances

Use this data source to get all instances in a specific cluster.

NOTE: It has been deprecated and replaced by tencentcloud kubernetes clusters.

» Example Usage

data "tencentcloud_container_cluster_instances" "foo_instance" {

```
cluster_id = "cls-abcdefg"
}
```

- cluster_id (Required) An id identify the cluster, like cls-xxxxxx.
- limit (Optional) An int variable describe how many instances in return at most.

» Attributes Reference

• total_count - Describe how many nodes in the cluster.

A list of nodes will be exported and its every element contains the following attributes:

- abnormal_reason Describe the reason when node is in abnormal state(if
 it was).
- cpu Describe the cpu of the node.
- mem Describe the memory of the node.
- instance_id An id identify the node, provided by cvm.
- is_normal Describe whether the node is normal.
- wan_ip Describe the wan ip of the node.
- lan_ip Describe the lan ip of the node.

» tencentcloud container clusters

Use this data source to get container clusters in the current region. By default every clusters in current region will be returned.

NOTE: It has been deprecated and replaced by tencentcloud_kubernetes_clusters.

» Example Usage

data "tencentcloud_container_clusters" "foo" {}

» Argument Reference

- cluster_id (Optional) An id identify the cluster, like cls-xxxxxx.
- limit (Optional) An int variable describe how many cluster in return at most .

» Attributes Reference

A list of clusters will be exported and its every element contains the following attributes:

- cluster_id An id identify the cluster, like cls-xxxxxx.
- security_certification_authority Describe the certificate string needed for using kubectl to access to kubernetes.
- security_cluster_external_endpoint Describe the address needed for using kubectl to access to kubernetes.
- security_username Describe the username needed for using kubectl to access to kubernetes.
- security_password Describe the password needed for using kubectl to access to kubernetes.
- description The description of the cluster.
- kubernetes_version Describe the running kubernetes version on the cluster.
- nodes_num Describe how many cluster instances in the cluster.
- nodes_status Describe the current status of the instances in the cluster.
- total cpu Describe the total cpu of each instance in the cluster.
- total_mem Describe the total memory of each instance in the cluster.

» tencentcloud cos bucket object

Use this data source to query the metadata of an object stored inside a bucket.

» Example Usage

» Argument Reference

The following arguments are supported:

- bucket (Required) Name of the bucket that contains the objects to query.
- key (Required) The full path to the object inside the bucket.
- result_output_file (Optional) Used to save results.

» Attributes Reference

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

- cache_control Specifies caching behavior along the request/reply chain.
- content_disposition Specifies presentational information for the object.
- content_encoding Specifies what content encodings have been applied to the object and thus what decoding mechanisms must be applied to obtain the media-type referenced by the Content-Type header field.
- content_type A standard MIME type describing the format of the object data.
- etag ETag generated for the object which is may not equal to MD5 value.
- last_modified Last modified date of the object.
- storage_class Object storage type such as STANDARD.

» tencentcloud_cos_buckets

Use this data source to query the COS buckets of the current Tencent Cloud user.

» Example Usage

```
data "tencentcloud_cos_buckets" "cos_buckets" {
  bucket_prefix = "tf-bucket-"
  result_output_file = "mytestpath"
}
```

» Argument Reference

The following arguments are supported:

- bucket_prefix (Optional) A prefix string to filter results by bucket name
- result_output_file (Optional) Used to save results.

» Attributes Reference

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

• bucket_list - A list of bucket. Each element contains the following attributes:

- bucket Bucket name, the format likes <bucket>-<appid>.
- cors_rules A list of CORS rule configurations.
- allowed headers Specifies which headers are allowed.
- allowed_methods Specifies which methods are allowed. Can be GET, PUT, POST, DELETE or HEAD.
- allowed_origins Specifies which origins are allowed.
- expose_headers Specifies expose header in the response.
- max_age_seconds Specifies time in seconds that browser can cache
 the response for a preflight request.
- lifecycle rules The lifecycle configuration of a bucket.
- expiration Specifies a period in the object's expire.
 - * date Specifies the date after which you want the corresponding action to take effect.
 - * days Specifies the number of days after object creation when the specific rule action takes effect.
- filter_prefix Object key prefix identifying one or more objects to which the rule applies.
- transition Specifies a period in the object's transitions.
 - * date Specifies the date after which you want the corresponding action to take effect.
 - * days Specifies the number of days after object creation when the specific rule action takes effect.
 - * storage_class Specifies the storage class to which you want the object to transition. Available values include STANDARD, STANDARD IA and ARCHIVE.
- website A list of one element containing configuration parameters used when the bucket is used as a website.
- error_document An absolute path to the document to return in case of a 4XX error.
- index_document COS returns this index document when requests are made to the root domain or any of the subfolders.

» tencentcloud_dc_instances

Use this data source to query detailed information of DC instances.

```
data "tencentcloud_dc_instances" "name_select" {
   name = "t"
}
data "tencentcloud_dc_instances" "id" {
```

```
dcx_id = "dc-kax48sg7"
}
```

The following arguments are supported:

- dc_id (Optional, ForceNew) ID of the DC to be queried.
- name (Optional, ForceNew) Name of the DC to be queried.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

- instance_list Information list of the DC.
 - access_point_id Access point ID of the DC.
 - bandwidth Bandwidth of the DC.
 - circuit_code The circuit code provided by the operator for the DC.
 - create_time Creation time of resource.
 - customer_address Interconnect IP of the DC within client. Note: This field may return null, indicating that no valid values are taken.
 - customer_email Applicant email of the DC, the default is obtained from the account. Note: This field may return null, indicating that no valid values are taken.
 - customer_name Applicant name of the DC, the default is obtained from the account. Note: This field may return null, indicating that no valid values are taken.
 - customer_phone Applicant phone number of the DC, the default is obtained from the account. Note: This field may return null, indicating that no valid values are taken.
 - dc_id ID of the DC.
 - enabled_time Enable time of resource.
 - expired_time Expire date of resource.
 - fault_report_contact_person Contact of reporting a faulty.
 Note: This field may return null, indicating that no valid values are taken.
 - fault_report_contact_phone Phone number of reporting a faulty.
 Note: This field may return null, indicating that no valid values are taken.
 - line_operator Operator of the DC, and available values include ChinaTelecom, ChinaMobile, ChinaUnicom, In-houseWiring, ChinaOther and InternationalOperator.
 - location The DC location where the connection is located.

- name Name of the DC.
- port_type Port type of the DC in client, and available values include 100Base-T, 1000Base-T, 1000Base-LX, 10GBase-T and 10GBase-LR. The default value is 1000Base-LX.
- redundant_dc_id ID of the redundant DC.
- state State of the DC, and available values include REJECTED, TOPAY, PAID, ALLOCATED, AVAILABLE, DELETING and DELETED.
- tencent_address Interconnect IP of the DC within Tencent. Note:
 This field may return null, indicating that no valid values are taken.

» tencentcloud_dc_gateway_ccn_routes

Use this data source to query detailed information of direct connect gateway route entries.

» Example Usage

```
resource "tencentcloud ccn" "main" {
             = "ci-temp-test-ccn"
  description = "ci-temp-test-ccn-des"
  qos
              = "AG"
}
resource "tencentcloud_dc_gateway" "ccn_main" {
                     = "ci-cdg-ccn-test"
 network_instance_id = "${tencentcloud_ccn.main.id}"
 network_type
                     = "CCN"
                      = "NORMAL"
  gateway_type
}
resource "tencentcloud_dc_gateway_ccn_route" "route1" {
          = "${tencentcloud_dc_gateway.ccn_main.id}"
  cidr_block = "10.1.1.0/32"
resource "tencentcloud_dc_gateway_ccn_route" "route2" {
            = "${tencentcloud_dc_gateway.ccn_main.id}"
  cidr_block = "192.1.1.0/32"
}
#You need to sleep for a few seconds because there is a cache on the server
```

data "tencentcloud_dc_gateway_ccn_routes" "test" {

```
dcg_id = "${tencentcloud_dc_gateway.ccn_main.id}"
}
```

The following arguments are supported:

- dcg_id (Required) ID of the DCG to be queried.
- result_output_file (Optional) Used to save results.

» Attributes Reference

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

- instance_list Information list of the DCG route entries.
 - as_path As Path list of the BGP.
 - cidr_block A network address segment of IDC.
 - dcg_id ID of the DCG.
 - route_id ID of the DCG route.

» tencentcloud_dc_gateway_instances

Use this data source to query detailed information of direct connect gateway instances.

```
name = "${tencentcloud_dc_gateway.ccn_main.name}"
}
data "tencentcloud_dc_gateway_instances" "id_select" {
  dcg_id = "${tencentcloud_dc_gateway.ccn_main.id}"
}
```

The following arguments are supported:

- dcg_id (Optional) ID of the DCG to be queried.
- name (Optional) Name of the DCG to be queried.
- result_output_file (Optional) Used to save results.

» Attributes Reference

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

- instance_list Information list of the DCG.
 - cnn_route_type Type of CCN route, the available value include 'BGP' and 'STATIC'.
 - create time Creation time of resource.
 - dcg_id ID of the DCG
 - dcg_ip IP of the DCG
 - enable_bgp Indicates whether the BGP is enabled.
 - gateway_type Type of the gateway, the available value include 'NORMAL' and 'NAT'. Default is 'NORMAL'.
 - name Name of the DCG
 - network_instance_id Type of associated network, the available value include 'VPC' and 'CCN'.
 - network_type IP of the DCG

» tencentcloud_dcx_instances

Use this data source to query detailed information of dedicated tunnels instances.

```
data "tencentcloud_dcx_instances" "name_select" {
  name = "main"
```

```
}
data "tencentcloud_dcx_instances" "id" {
  dcx_id = "dcx-3ikuw30k"
}
```

The following arguments are supported:

- dcx_id (Optional, ForceNew) ID of the dedicated tunnels to be queried.
- name (Optional, ForceNew) Name of the dedicated tunnels to be queried.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

- instance_list Information list of the dedicated tunnels.
 - bandwidth Bandwidth of the DC.
 - bgp_asn BGP ASN of the user.
 - bgp_auth_key BGP key of the user.
 - create time Creation time of resource.
 - customer_address Interconnect IP of the DC within client.
 - dc id ID of the DC.
 - dcg_id ID of the DC Gateway. Currently only new in the console.
 - dcx_id ID of the dedicated tunnel.
 - name Name of the dedicated tunnel.
 - network_region The region of the dedicated tunnel.
 - network_type Type of the network, and available values include VPC, BMVPC and CCN. The default value is VPC.
 - route_filter_prefixes Static route, the network address of the user IDC.
 - route_type Type of the route, and available values include BGP and STATIC. The default value is BGP.
 - state State of the dedicated tunnels, and available values include PENDING, ALLOCATING, ALLOCATED, ALTERING, DELET-ING, DELETED, COMFIRMING and REJECTED.
 - ${\tt tencent_address}$ ${\tt Interconnect}$ ${\tt IP}$ of the DC within Tencent.
 - vlan Vlan of the dedicated tunnels, and the range of values is [0-3000]. '0' means that only one tunnel can be created for the physical connect.
 - vpc_id ID of the VPC or BMVPC.

» tencentcloud clb instances

Use this data source to query detailed information of CLB

» Example Usage

» Argument Reference

The following arguments are supported:

- clb_id (Optional) Id of the CLB to be queried.
- clb_name (Optional) Name of the CLB to be queried.
- network_type (Optional) Type of CLB instance, and available values include 'OPEN' and 'INTERNAL'
- project_id (Optional) Project id of the CLB.
- result_output_file (Optional) Used to save results.

» Attributes Reference

- clb_list A list of cloud load balancers. Each element contains the following attributes:
 - clb_id Id of CLB.
 - clb_name Name of CLB.
 - clb_vips The virtual service address table of the CLB.
 - create_time Creation time of the CLB
 - network_type Types of CLB.
 - project_id Id of the project.
 - security_groups Id of the security groups.
 - status_time Latest state transition time of CLB.
 - status The status of CLB.
 - subnet_id Id of the subnet
 - ${\tt tags}$ ${\tt The}$ available tags within this CLB.
 - target_region_info_region Region information of backend service are attached the CLB.

- target_region_info_vpc_id VpcId information of backend service are attached the CLB.
- vpc_id Id of the VPC

» tencentcloud clb listeners

Use this data source to query detailed information of CLB listener

» Example Usage

```
data "tencentcloud_clb_listeners" "foo" {
  clb_id = "lb-k2zjp9lv"
  listener_id = "lbl-mwr6vbtv"
  protocol = "TCP"
  port = 80
}
```

» Argument Reference

The following arguments are supported:

- clb_id (Required) Id of the CLB to be queried.
- listener_id (Optional) Id of the listener to be queried.
- port (Optional) Port of the CLB listener.
- protocol (Optional) Type of protocol within the listener, and available values include 'TCP', 'UDP', 'HTTP', 'HTTPS' and 'TCP_SSL'.
- result_output_file (Optional) Used to save results.

» Attributes Reference

- listener_list A list of listeners of cloud load balancers. Each element contains the following attributes:
 - certificate_ca_id Id of the client certificate. It must be set when SSLMode is 'mutual'. NOTES: only supported by listeners of 'HTTPS' and 'TCP SSL' protocol.
 - certificate_id Id of the server certificate. It must be set when protocol is 'HTTPS' or 'TCP_SSL'. NOTES: only supported by listeners of 'HTTPS' and 'TCP_SSL' protocol and must be set when it is available.

- certificate_ssl_mode Type of certificate, and available values inclue 'UNIDIRECTIONAL', 'MUTUAL'. NOTES: Only supports listeners of 'HTTPS' and 'TCP_SSL' protocol and must be set when it is available.
- clb_id Id of the CLB.
- health_check_health_num Health threshold of health check, and the default is 3. If a success result is returned for the health check three consecutive times, the CVM is identified as healthy. The value range is 2-10. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud clb listener rule.
- health_check_interval_time Interval time of health check. The value range is 5-300 sec, and the default is 5 sec. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud clb listener rule.
- health_check_switch Indicates whether health check is enabled.
- health_check_time_out Response timeout of health check. The value range is 2-60 sec, and the default is 2 sec. Response timeout needs to be less than check interval. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration.
- health_check_unhealth_num Unhealth threshold of health check, and the default is 3. If a success result is returned for the health check three consecutive times, the CVM is identified as unhealthy. The value range is 2-10. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud_clb_listener_rule.
- listener_id Id of the listener.
- listener_name Name of the CLB listener.
- port Port of the CLB listener.
- protocol Protocol of the listener. Available values are 'HTTP', 'HTTPS', 'TCP', 'UDP', 'TCP_SSL'.
- scheduler Scheduling method of the CLB listener, and available values include 'WRR' and 'LEAST_CONN'. The default is 'WRR'. NOTES: The listener of 'HTTP' and 'HTTPS' protocol additionally supports the 'IP HASH' method. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud_clb_listener_rule.
- session_expire_time Time of session persistence within the CLB listener. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud_clb_listener_rule.
- sni_switch Indicates whether SNI is enabled. NOTES: Only supported by 'HTTPS' protocol.

» tencentcloud_clb_listener_rules

Use this data source to query detailed information of CLB listener rule

» Example Usage

» Argument Reference

The following arguments are supported:

- clb_id (Required) Id of the CLB to be queried.
- listener_id (Required) Id of the CLB listener to be queried.
- domain (Optional) Domain name of the forwarding rule to be queried.
- result_output_file (Optional) Used to save results.
- rule_id (Optional) Id of the forwarding rule to be queried.
- scheduler (Optional) Scheduling method of the forwarding rule of thr CLB listener, and available values include 'WRR', 'IP HASH' and 'LEAST_CONN'. The default is 'WRR'.
- url (Optional) Url of the forwarding rule to be queried.

» Attributes Reference

- rule_list A list of forward rules of listeners. Each element contains the following attributes:
 - certificate_ca_id Id of the client certificate. NOTES: Only supports listeners of 'HTTPS' and 'TCP SSL' protocol.
 - certificate_id Id of the server certificate. NOTES: Only supports listeners of 'HTTPS' and 'TCP_SSL' protocol.
 - certificate_ssl_mode Type of SSL Mode, and available values inclue 'UNIDIRECTIONAL', 'MUTUAL'.NOTES: Only supports listeners of 'HTTPS' and 'TCP_SSL' protocol.
 - clb id Id of the CLB.

- health_check_health_num Health threshold of health check, and the default is 3. If a success result is returned for the health check three consecutive times, the CVM is identified as healthy. The value range is 2-10. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud clb listener rule.
- health_check_http_code HTTP Status Code. The default is 31 and value range is 1-31. '0b0001' means the return value '1xx' is health. '0b0010' means the return value '2xx' is health. '0b0100' means the return value '3xx' is health. '0b1000' means the return value 4xx is health. '0b10000' means the return value '5xx' is health. If you want multiple return codes to indicate health, need to add the corresponding values. NOTES: The 'HTTP' health check of the 'TCP' listener only supports specifying one health check status code. NOTES: Only supports listeners of 'HTTP' and 'HTTPS' protocol.
- health_check_http_domain Domain name of health check.
 NOTES: Only supports listeners of 'HTTPS' and 'HTTP' protocol.
- health_check_http_method Methods of health check. NOTES: Only supports listeners of 'HTTPS' and 'HTTP' protocol. The default is 'HEAD', the available value include 'HEAD' and 'GET'.
- health_check_http_path Path of health check. NOTES: Only supports listeners of 'HTTPS' and 'HTTP' protocol.
- health_check_interval_time Interval time of health check. The value range is 5-300 sec, and the default is 5 sec. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud clb listener rule.
- health_check_switch Indicates whether health check is enabled.
- health_check_unhealth_num Unhealth threshold of health check, and the default is 3. If a success result is returned for the health check three consecutive times, the CVM is identified as unhealthy. The value range is 2-10. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud_clb_listener_rule.
- listener_id Id of the listener.
- rule_id Id of the rule.
- scheduler Scheduling method of the CLB listener, and available values include 'WRR', 'IP_HASH' and 'LEAST_CONN'. The default is 'WRR'. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud clb listener rule.
- session_expire_time Time of session persistence within the CLB listener. NOTES: Available when scheduler is specified as 'WRR'. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud clb listener rule.

» tencentcloud clb attachments

Use this data source to query detailed information of CLB attachments

» Example Usage

```
data "tencentcloud_clb_attachments" "clblab" {
   listener_id = "lbl-hh141sn9"
   clb_id = "lb-k2zjp9lv"
   rule_id = "loc-4xxr2cy7"
}
```

» Argument Reference

The following arguments are supported:

- clb_id (Required) Id of the CLB to be queried.
- listener_id (Required) Id of the CLB listener to be queried.
- result_output_file (Optional) Used to save results.
- rule_id (Optional) Id of the CLB listener rule. If the protocol of listener is HTTP/HTTPS, this para is required.

» Attributes Reference

- attachment_list A list of cloud load redirection configurations. Each element contains the following attributes:
 - clb_id Id of the CLB.
 - listener id ID of the CLB listener.
 - protocol_type Type of protocol within the listener, and available values include 'TCP', 'UDP', 'HTTP', 'HTTPS' and 'TCP_SSL'.NOTES: TCP_SSL is testing internally, please apply if you need to use.
 - rule_id Id of the CLB listener rule.
 - targets Information of the backends to be attached.
 - instance_id Id of the backend server.
 - port Port of the backend server.
 - weight Forwarding weight of the backend service, the range of [0, 100], defaults to 10.

» tencentcloud clb redirections

Use this data source to query detailed information of CLB redirections

» Example Usage

» Argument Reference

The following arguments are supported:

- clb_id (Required) Id of the CLB to be queried.
- source_listener_id (Required) Id of source listener to be queried.
- source_rule_id (Required) Rule id of source listener to be queried.
- result_output_file (Optional) Used to save results.
- target_listener_id (Optional) Id of source listener to be queried.
- target_rule_id (Optional) Rule id of target listener to be queried.

» Attributes Reference

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

- redirection_list A list of cloud load redirection configurations. Each element contains the following attributes:
 - clb_id Id of the CLB.
 - source_listener_id Id of source listener.
 - source_rule_id Rule id of source listener.
 - target_listener_id Id of source listener.
 - target_rule_id Rule id of target listener.

» tencentcloud_eip

The EIP data source fetch proper EIP from user's EIP pool.

» Example Usage

```
data "tencentcloud_eip" "my_eip" {
  filter {
    name = "address-status"
    values = ["UNBIND"]
  }
}
```

» Argument Reference

• filter - (Optional) One or more name/value pairs to filter off of. There are several valid keys: address-id,address-name,address-ip. For a full reference, check out DescribeImages in the TencentCloud API reference.

» Attributes Reference

- id An EIP id indicate the uniqueness of a certain EIP, which can be used for instance binding or network interface binding.
- public_ip An public IP address for the EIP.
- status The status of the EIP, there are several status like BIND, UNBIND, and BIND_ENI. For a full reference, check out DescribeImages in the TencentCloud API reference.

» tencentcloud_gaap_certificates

Use this data source to query GAAP certificate.

```
resource "tencentcloud_gaap_certificate" "foo" {
  type = "BASIC"
  content = "test:tx2KGdo3zJg/."
  name = "test_certificate"
}
data "tencentcloud_gaap_certificates" "foo" {
  id = "${tencentcloud_gaap_certificate.foo.id}"
}
```

The following arguments are supported:

- id (Optional) ID of the certificate to be queried.
- name (Optional) Name of the certificate to be queried.
- result_output_file (Optional, ForceNew) Used to save results.
- type (Optional) Type of the certificate to be queried. Available values include: BASIC, CLIENT, SERVER, REALSERVER and PROXY; BASIC means basic certificate; CLIENT means client CA certificate; SERVER means server SSL certificate; REALSERVER means realserver CA certificate; PROXY means proxy SSL certificate.

» Attributes Reference

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

- certificates An information list of certificate. Each element contains the following attributes:
 - begin_time Beginning time of the certificate.
 - create_time Creation time of the certificate.
 - end_time Ending time of the certificate.
 - id ID of the certificate.
 - issuer cn Issuer name of the certificate.
 - name Name of the certificate.
 - subject_cn Subject name of the certificate.
 - type Type of the certificate.

ightarrow tencentcloud_gaap_http_domains

Use this data source to query forward domain of layer7 listeners.

The following arguments are supported:

- domain (Required) Forward domain of the layer7 listener to be queried.
- listener_id (Required) ID of the layer7 listener to be queried.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

- domains An information list of forward domain of the layer7 listeners. Each element contains the following attributes:
 - basic_auth_id ID of the basic authentication.
 - basic_auth Indicates whether basic authentication is enable
 - certificate_id ID of the server certificate
 - client_certificate_id ID of the client certificate
 - domain Forward domain of the layer7 listener.
 - gaap_auth_id ID of the SSL certificate.
 - gaap_auth Indicates whether SSL certificate authentication is enable
 - realserver_auth Indicates whether realserver authentication is enable
 - realserver_certificate_domain CA certificate domain of the re-
 - realserver_certificate_id CA certificate ID of the realserver.

» tencentcloud_gaap_http_rules

Use this data source to query forward rule of layer7 listeners.

```
resource "tencentcloud_gaap_proxy" "foo" {
                   = "ci-test-gaap-proxy"
 bandwidth
                   = 10
  concurrent
 access_region = "SouthChina"
 realserver_region = "NorthChina"
}
resource "tencentcloud_gaap_layer7_listener" "foo" {
 protocol = "HTTP"
          = "ci-test-gaap-17-listener"
 port
          = 80
 proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
resource "tencentcloud_gaap_realserver" "foo" {
 ip = "1.1.1.1"
 name = "ci-test-gaap-realserver"
resource "tencentcloud_gaap_http_rule" "foo" {
 listener_id = "${tencentcloud_gaap_layer7_listener.foo.id}"
 domain
                 = "www.qq.com"
                 = "/"
 path
 realserver_type = "IP"
 health_check
                 = true
 realservers {
    id = "${tencentcloud_gaap_realserver.foo.id}"
   ip = "${tencentcloud_gaap_realserver.foo.ip}"
   port = 80
 }
}
data "tencentcloud_gaap_http_rules" "foo" {
 listener_id = "${tencentcloud_gaap_layer7_listener.foo.id}"
  domain
             = "${tencentcloud_gaap_http_rule.foo.domain}"
}
```

The following arguments are supported:

- listener id (Required) ID of the layer7 listener to be queried.
- domain (Optional) Forward domain of the layer7 listener to be queried.
- path (Optional) Path of the forward rule to be queried.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

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

- rules An information list of forward rule of the layer7 listeners. Each element contains the following attributes:
 - connect_timeout Timeout of the health check response.
 - domain Forward domain of the layer7 listener.
 - health_check_method Method of the health check.
 - health_check_path Path of health check.
 - health_check_status_codes Return code of confirmed normal.
 - health_check Indicates whether health check is enable.
 - id ID of the forward rule.
 - interval Interval of the health check.
 - listener_id ID of the layer7 listener.
 - path Path of the forward rule.
 - realserver_type Type of the realserver.
 - realservers An information list of GAAP realserver. Each element contains the following attributes:
 - domain Domain of the GAAP realserver.
 - id ID of the GAAP realserver.
 - ip IP of the GAAP realserver.
 - port Port of the GAAP realserver.
 - status Status of the GAAP realserver.
 - weight Scheduling weight.
 - scheduler Scheduling policy of the layer4 listener.

$\ \ \, * tencent cloud_gaap_layer 4_listeners$

Use this data source to query gaap layer4 listeners.

```
resource "tencentcloud gaap proxy" "foo" {
```

```
name
                    = "ci-test-gaap-proxy"
                    = 10
 bandwidth
  concurrent
                    = "SouthChina"
  access_region
  realserver_region = "NorthChina"
}
resource "tencentcloud_gaap_realserver" "foo" {
  ip = "1.1.1.1"
 name = "ci-test-gaap-realserver"
resource "tencentcloud_gaap_layer4_listener" "foo" {
                  = "TCP"
 name
                  = "ci-test-gaap-4-listener"
 port
 realserver_type = "IP"
                  = "${tencentcloud_gaap_proxy.foo.id}"
 proxy_id
 health_check
                  = true
  interval
  connect_timeout = 2
 realserver_bind_set {
        = "${tencentcloud_gaap_realserver.foo.id}"
        = "${tencentcloud_gaap_realserver.foo.ip}"
   port = 80
 }
}
data "tencentcloud_gaap_layer4_listeners" "foo" {
            = "TCP"
 protocol
             = "${tencentcloud_gaap_proxy.foo.id}"
 proxy_id
  listener_id = "${tencentcloud_gaap_layer4_listener.foo.id}"
}
```

The following arguments are supported:

- protocol (Required) Protocol of the layer4 listener to be queried, and the available values include TCP and UDP.
- proxy_id (Required) ID of the GAAP proxy to be queried.
- listener_id (Optional) ID of the layer4 listener to be queried.
- listener_name (Optional) Name of the layer4 listener to be queried.
- port (Optional) Port of the layer4 listener to be queried.

• result_output_file - (Optional, ForceNew) Used to save results.

» Attributes Reference

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

- listeners An information list of layer4 listeners. Each element contains the following attributes:
 - connect_timeout Timeout of the health check response.
 - create_time Creation time of the layer4 listener.
 - health_check Indicates whether health check is enable.
 - id ID of the layer4 listener.
 - interval Interval of the health check
 - name Name of the layer4 listener.
 - port Port of the layer4 listener.
 - protocol Protocol of the layer4 listener.
 - realserver_type Type of the realserver.
 - scheduler Scheduling policy of the layer4 listener.
 - status Status of the layer4 listener.

» tencentcloud_gaap_layer7_listeners

Use this data source to query gaap layer7 listeners.

```
resource "tencentcloud_gaap_proxy" "foo" {
 name
                   = "ci-test-gaap-proxy"
                   = 10
 bandwidth
  concurrent
                  = "SouthChina"
 access region
 realserver_region = "NorthChina"
}
resource "tencentcloud_gaap_layer7_listener" "foo" {
 protocol = "HTTP"
           = "ci-test-gaap-17-listener"
 name
 port
 proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
data "tencentcloud_gaap_layer7_listeners" "listenerId" {
             = "HTTP"
 protocol
```

```
proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
listener_id = "${tencentcloud_gaap_layer7_listener.foo.id}"
}
```

The following arguments are supported:

- protocol (Required) Protocol of the layer7 listener to be queried, and the available values include HTTP and HTTPS.
- proxy_id (Required) ID of the GAAP proxy to be queried.
- listener_id (Optional) ID of the layer7 listener to be queried.
- listener_name (Optional) Name of the layer7 listener to be queried.
- port (Optional) Port of the layer7 listener to be queried.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

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

- listeners An information list of layer7 listeners. Each element contains the following attributes:
 - auth_type Authentication type of the layer7 listener. 0 is one-way authentication and 1 is mutual authentication.
 - certificate id Certificate ID of the layer7 listener.
 - client_certificate_id ID of the client certificate.
 - create_time Creation time of the layer7 listener.
 - forward_protocol Protocol type of the forwarding.
 - id ID of the layer7 listener.
 - name Name of the layer7 listener.
 - port Port of the layer7 listener.
 - protocol Protocol of the layer7 listener.
 - status Status of the layer7 listener.

» tencentcloud_gaap_proxies

Use this data source to query gaap proxies.

```
bandwidth = 10
concurrent = 2
access_region = "SouthChina"
realserver_region = "NorthChina"
}

data "tencentcloud_gaap_proxies" "foo" {
  ids = ["${tencentcloud_gaap_proxy.foo.id}"]
}
```

The following arguments are supported:

- access_region (Optional) Access region of the GAAP proxy to be queried. Conflict with ids.
- ids (Optional) ID of the GAAP proxy to be queried. Conflict with project_id,access_region,realserver_region.
- project_id (Optional) Project ID of the GAAP proxy to be queried. Conflict with ids.
- realserver_region (Optional) Region of the GAAP realserver to be queried. Conflict with ids.
- ${\tt result_output_file}$ (Optional, ForceNew) Used to save results.
- tags (Optional) Tags of the GAAP proxy to be queried. Support up to 5, display the information as long as it matches one.

» Attributes Reference

- proxies An information list of GAAP proxy. Each element contains the following attributes:
 - access_region Access region of the GAAP proxy.
 - bandwidth Maximum bandwidth of the GAAP proxy, unit is Mbps.
 - concurrent Maximum concurrency of the GAAP proxy, unit is 10k.
 - create_time Creation time of the GAAP proxy.
 - domain Access domain of the GAAP proxy.
 - forward_ip Forwarding IP of the GAAP proxy.
 - id ID of the GAAP proxy.
 - ip Access domain of the GAAP proxy.
 - name Name of the GAAP proxy.
 - policy_id Security policy ID of the GAAP proxy.
 - project_id ID of the project within the GAAP proxy, '0' means is Default Project.
 - realserver_region Region of the GAAP realserver.

```
scalable - Indicates whether GAAP proxy can scalable.
status - Status of the GAAP proxy.
```

- support_protocols Supported protocols of the GAAP proxy.
- tags Tags of the GAAP proxy.
- version Version of the GAAP proxy.

» tencentcloud_gaap_realservers

Use this data source to query gaap realservers.

» Example Usage

```
resource "tencentcloud_gaap_realserver" "foo" {
   ip = "1.1.1.1"
   name = "ci-test-gaap-realserver"
}
data "tencentcloud_gaap_realservers" "foo" {
   ip = "${tencentcloud_gaap_realserver.foo.ip}"
}
```

» Argument Reference

The following arguments are supported:

- domain (Optional) Domain of the GAAP realserver to be queried, conflict with ip.
- ip (Optional) IP of the GAAP realserver to be queried, conflict with domain.
- name (Optional) Name of the GAAP realserver to be queried, the maximum length is 30.
- project_id (Optional) ID of the project within the GAAP realserver to be queried, default is '-1' means all projects.
- result_output_file (Optional, ForceNew) Used to save results.
- tags (Optional) Tags of the GAAP proxy to be queried. Support up to 5, display the information as long as it matches one.

» Attributes Reference

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

• realservers - An information list of GAAP realserver. Each element contains the following attributes:

```
domain - Domain of the GAAP realserver.
id - ID of the GAAP realserver.
ip - IP of the GAAP realserver.
name - Name of the GAAP realserver.
project_id - ID of the project within the GAAP realserver.
tags - Tags of the GAAP realserver.
```

» tencentcloud_gaap_security_policies

Use this data source to query security policies of GAAP proxy.

» Example Usage

```
resource "tencentcloud_gaap_proxy" "foo" {
                   = "ci-test-gaap-proxy"
 name
 bandwidth
                   = 10
 concurrent
                   = 2
                = "SouthChina"
 access_region
 realserver_region = "NorthChina"
resource "tencentcloud_gaap_security_policy" "foo" {
 proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
 action = "ACCEPT"
}
data "tencentcloud_gaap_security_policies" "foo" {
 id = "${tencentcloud_gaap_security_policy.foo.id}"
```

» Argument Reference

The following arguments are supported:

- id (Required) ID of the security policy to be queried.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

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

• action - Default policy.

- proxy_id ID of the GAAP proxy.
- status Status of the security policy.

» tencentcloud_gaap_security_rules

Use this data source to query security policy rule.

» Example Usage

```
resource "tencentcloud_gaap_proxy" "foo" {
                   = "ci-test-gaap-proxy"
 name
                 = 10
 bandwidth
 concurrent
                 = 2
 access region = "SouthChina"
 realserver_region = "NorthChina"
}
resource "tencentcloud_gaap_security_policy" "foo" {
 proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
 action = "ACCEPT"
}
resource "tencentcloud_gaap_security_rule" "foo" {
 policy_id = "${tencentcloud_gaap_security_policy.foo.id}"
         = "ci-test-gaap-s-rule"
 name
 cidr_ip = "1.1.1.1"
 action = "ACCEPT"
 protocol = "TCP"
           = "80"
 port
}
data "tencentcloud_gaap_security_rules" "protocol" {
 policy_id = "${tencentcloud_gaap_security_policy.foo.id}"
 protocol = "${tencentcloud_gaap_security_rule.foo.protocol}"
```

» Argument Reference

- policy_id (Required) ID of the security policy to be queried.
- action (Optional) Policy of the rule to be queried.

- cidr_ip (Optional) A network address block of the request source to be queried.
- name (Optional) Name of the security policy rule to be queried.
- port (Optional) Port of the security policy rule to be queried.
- protocol (Optional) Protocol of the security policy rule to be queried.
- result_output_file (Optional, ForceNew) Used to save results.
- rule_id (Optional) ID of the security policy rules to be queried.

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

- rules An information list of security policy rule. Each element contains the following attributes:
 - action Policy of the rule.
 - cidr_ip A network address block of the request source.
 - id ID of the security policy rule.
 - name Name of the security policy rule.
 - port Port of the security policy rule.
 - protocol Protocol of the security policy rule.

» tencentcloud_image

The Images data source fetch proper image, which could be one of the private images of the user and images of system resources provided by TencentCloud, as well as other public images and those available on the image market.

» Example Usage

```
data "tencentcloud_image" "my_favorate_image" {
   os_name = "centos"

filter {
   name = "image-type"
   values = ["PUBLIC_IMAGE"]
  }
}
```

» Argument Reference

• image_name_regex - (Optional) A regex string to apply to the image list returned by TencentCloud. **NOTE**: it is not wildcard, should look like

```
image_name_regex = "^CentOS^s+6^.8^s+64^w*".
```

- os_name (Optional) A string to apply with fuzzy match to the os_name attribute on the image list returned by TencentCloud. **NOTE**: when os_name is provided, highest priority is applied in this field instead of image_name_regex.
- filter (Optional) One or more name/value pairs to filter off of. There are several valid keys: image-id,image-type,image-name. For a full reference, check out DescribeImages in the TencentCloud API reference.

- image_id An image id indicate the uniqueness of a certain image, which can be used for instance creation or resetting.
- image_name Name of this image.

» tencentcloud_instance_types

The Instance Types data source list the cvm instance types of TencentCloud.

» Example Usage

```
data "tencentcloud_instance_types" "lowest_cost_config" {
  filter {
    name = "instance-family"
    values = ["S1"]
  }
  cpu_core_count = 1
  memory_size = 1
}
```

» Argument Reference

- filter (Optional) One or more name/value pairs to filter off of. There are several valid keys: zone,instance-family. For a full reference, check out DescribeInstanceTypeConfigs in the TencentCloud API reference.
 - cpu_core_count (Optional) Limit search to specific cpu core count.
 - memory_size (Optional) Limit search to specific memory size.

The following attributes are exported

- availability zone Indicate the availability zone for this instance type.
- instance_type TencentCloud instance type of the cvm instance.
- cpu_core_count Number of CPU cores.
- memory_size Size of memory, measured in GB.
- family The instance type family.

» tencentcloud_kubernetes_clusters

Use this data source to query detailed information of kubernetes clusters.

» Example Usage

```
data "tencentcloud_kubernetes_clusters" "name" {
   cluster_name = "terraform"
}
data "tencentcloud_kubernetes_clusters" "id" {
   cluster_id = "cls-godovr32"
}
```

» Argument Reference

The following arguments are supported:

- cluster_id (Optional) ID of the cluster. Conflict with cluster_name, can not be set at the same time.
- cluster_name (Optional) Name of the cluster. Conflict with cluster_id, can not be set at the same time.
- result_output_file (Optional) Used to save results.

» Attributes Reference

- list An information list of kubernetes clusters . Each element contains the following attributes:
 - cluster_cidr A network address block of the cluster. Different from vpc cidr and cidr of other clusters within this vpc.
 - cluster_deploy_type Deployment type of the cluster.

- cluster_desc Description of the cluster
- cluster_ipvs Indicates whether ipvs is enabled.
- cluster_max_pod_num The maximum number of Pods per node in the cluster.
- cluster_max_service_num The maximum number of services in the cluster.
- cluster_name Name of the cluster
- cluster_node_num Number of nodes in the cluster.
- cluster_os Operating system of the cluster.
- cluster_version Version of the cluster.
- container_runtime Container runtime of the cluster.
- ignore_cluster_cidr_conflict Indicates whether to ignore the cluster cidr conflict error.
- project id Project Id of the cluster.
- vpc_id Vpc Id of the cluster.
- worker_instances_list An information list of cvm within the WORKER clusters. Each element contains the following attributes.
- failed_reason Information of the cvm when it is failed.
- instance_id ID of the cvm
- instance_role Role of the cvm
- instance_state State of the cvm

» tencentcloud_mongodb_instances

Use this data source to query detailed information of Mongodb instances.

» Example Usage

```
data "tencentcloud_mongodb_instances" "mongodb" {
  instance_id = "cmgo-l6lwdsel"
  cluster_type = "REPLSET"
}
```

» Argument Reference

- cluster_type (Optional) Type of Mongodb cluster, and available values include replica set cluster(expressed with REPLSET), sharding cluster(expressed with SHARD).
- instance_id (Optional) ID of the Mongodb instance to be queried.
- instance_name_prefix (Optional) Name prefix of the Mongodb instance.

• result_output_file - (Optional) Used to store results.

» Attributes Reference

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

- instance_list A list of instances. Each element contains the following attributes:
 - available_zone The available zone of the Mongodb.
 - cluster_type Type of Mongodb cluster.
 - cpu Number of cpu's core.
 - create_time Creation time of the Mongodb instance.
 - engine_version Version of the Mongodb engine.
 - instance_id ID of the Mongodb instance.
 - instance_name Name of the Mongodb instance.
 - machine_type Type of Mongodb instance.
 - memory Memory size.
 - project_id ID of the project which the instance belongs.
 - shard_quantity Number of sharding.
 - status Status of the Mongodb, and available values include pending initialization(expressed with 0), processing(expressed with 1), running(expressed with 2) and expired(expressed with -2)
 - subnet_id ID of the subnet.
 - vip IP of the Mongodb instance.
 - volume Disk size.
 - vpc_id ID of the VPC.
 - vport IP port of the Mongodb instance.

» tencentcloud_mongodb_zone_config

Use this data source to query the available mongodb specifications for different zone.

» Example Usage

```
data "tencentcloud_mongodb_zone_config" "mongodb" {
  available_zone = "ap-guangzhou-2"
}
```

» Argument Reference

- available_zone (Optional) The available zone of the Mongodb.
- result_output_file (Optional) Used to store results.

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

- list A list of zone config. Each element contains the following attributes:
 - available_zone The available zone of the Mongodb.
 - cluster_type Type of Mongodb cluster.
 - cpu Number of cpu's core.
 - default_storage Default disk size.
 - engine_version Version of the Mongodb version.
 - machine_type Type of Mongodb instance.
 - max storage Maximum size of the disk.
 - memory Memory size.
 - min_storage Minimum sie of the disk.

» tencentcloud_mysql_backup_list

Use this data source to query the list of backup databases.

» Example Usage

» Argument Reference

- mysql_id (Required, ForceNew) Instance ID, such as cdb-c1nl9rpv. It is identical to the instance ID displayed in the database console page.
- max_number (Optional, ForceNew) The latest files to list, rang from 1 to 10000. And the default value is 10.
- result_output_file (Optional, ForceNew) Used to store results.

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

- list A list of MySQL backup. Each element contains the following attributes:
 - backup_id ID of Backup task.
 - backup_model Backup method. Supported values include: physical
 physical backup, and logical logical backup.
 - creator The owner of the backup files.
 - finish_time The time at which the backup finishes.
 - internet_url URL for downloads externally.
 - intranet_url URL for downloads internally.
 - size the size of backup file.
 - time The earliest time at which the backup starts. For example, 2 indicates 2:00 am.

» tencentcloud_mysql_instance

Use this data source to get information about a MySQL instance.

» Example Usage

» Argument Reference

- engine_version (Optional) The version number of the database engine to use. Supported versions include 5.5/5.6/5.7.
- init_flag (Optional) Initialization mark. Available values: 0 Uninitialized; 1 Initialized.
- instance_name (Optional) Name of mysql instance.
- instance_role (Optional) Instance type. Supported values include: master - master instance, dr - disaster recovery instance, and ro - read-only instance
- limit (Optional) Number of results returned for a single request. Default is 20, and maximum is 2000.

- mysql_id (Optional) Instance ID, such as cdb-c1nl9rpv. It is identical to the instance ID displayed in the database console page.
- offset (Optional) Record offset. Default is 0.
- result_output_file (Optional) Used to store results.
- security_group_id (Optional) Security groups ID of instance.
- status (Optional) Instance status. Available values: 0 Creating; 1 Running; 4 Isolating; 5 Isolated.
- with_dr (Optional) Indicates whether to query disaster recovery instances
- with master (Optional) Indicates whether to query master instances.
- with ro (Optional) Indicates whether to query read-only instances.

- instance_list A list of instances. Each element contains the following attributes:
 - cpu_core_count CPU count.
 - create_time The time at which a instance is created.
 - device_type Supported instance model.HA high available version;
 Basic basic version.
 - dr_instance_ids ID list of disaster-recovery type associated with the current instance.
 - engine_version The version number of the database engine to use. Supported versions include 5.5/5.6/5.7.
 - init_flag Initialization mark. Available values: 0 Uninitialized;
 1 Initialized.
 - instance_name Name of mysql instance.
 - instance_role Instance type. Supported values include: master master instance, dr - disaster recovery instance, and ro - read-only instance.
 - internet_host Public network domain name.
 - internet_port Public network port.
 - internet_status Status of public network.
 - intranet_ip Instance IP for internal access.
 - intranet_port Transport layer port number for internal purpose.
 - memory_size Memory size (in MB).
 - mysql_id Instance ID, such as cdb-c1nl9rpv. It is identical to the instance ID displayed in the database console page.
 - project_id Project ID to which the current instance belongs.
 - ro_instance_ids ID list of read-only type associated with the current instance.
 - slave_sync_mode Data replication mode. 0 Async replication; 1
 Semisync replication; 2 Strongsync replication.

```
    status - Instance status. Available values: 0 - Creating; 1 - Running;
    4 - Isolating; 5 - Isolated.
```

- subnet_id ID of subnet to which the current instance belongs.
- volume_size Disk capacity (in GB).
- vpc_id ID of Virtual Private Cloud.
- zone Information of available zone.

» tencentcloud_mysql_parameter_list

Use this data source to get information about a parameter group of a database instance.

» Example Usage

» Argument Reference

The following arguments are supported:

- engine_version (Optional) The version number of the database engine to use. Supported versions include 5.5/5.6/5.7.
- mysql_id (Optional) Instance ID.
- result_output_file (Optional) Used to store results.

» Attributes Reference

- parameter_list A list of parameters. Each element contains the following attributes:
 - current_value Current value.
 - default_value Default value.
 - description Parameter specification description.
 - enum_value Enumerated value.
 - max Maximum value for the parameter.
 - min Minimum value for the parameter.

- need_reboot Indicates whether reboot is needed to enable the new parameters.
- parameter name Parameter name.
- parameter_type Parameter type.

» tencentcloud_mysql_zone_config

Use this data source to query the available database specifications for different regions. And a maximum of 20 requests can be initiated per second for this query.

» Example Usage

» Argument Reference

The following arguments are supported:

- region (Optional, ForceNew) Region parameter, which is used to identify the region to which the data you want to work with belongs.
- result_output_file (Optional, ForceNew) Used to store results.

» Attributes Reference

- list A list of zone config. Each element contains the following attributes:
 - disaster_recovery_zones Information about available zones of recovery.
 - engine_versions The version number of the database engine to use. Supported versions include 5.5/5.6/5.7.
 - first_slave_zones Zone information about first slave instance.
 - is_default Indicates whether the current DC is the default DC for the region. Possible returned values: 0 - No; 1 - Yes.
 - is_support_disaster_recovery Indicates whether recovery is supported: 0 No; 1 Yes.
 - is_support_vpc Indicates whether VPC is supported: 0 No; 1 Yes.

- name The name of available zone which is equal to a specific datacenter.
- second_slave_zones Zone information about second slave instance.
- sells A list of supported instance types for sell:
- max_volume_size Maximum disk size (in GB).
- mem_size Memory size (in MB).
- min_volume_size Minimum disk size (in GB).
- qps Queries per second.
- volume_step Disk increment (in GB).
- slave_deploy_modes Availability zone deployment method. Available values: 0 Single availability zone; 1 Multiple availability zones.
- support_slave_sync_modes Data replication mode. 0 Async replication; 1 Semisync replication; 2 Strongsync replication.

» tencentcloud nats

The NATs data source lists a number of NATs resource information owned by an TencentCloud account.

```
Basic usage:
```

```
# Query the NAT gateway by ID
data "tencentcloud_nats" "anat" {
  id = "nat-k6ualnp2"
# Query the list of normal NAT gateways
data "tencentcloud_nats" "nat_state" {
  state = 0
}
# Multi conditional query NAT gateway list
data "tencentcloud_nats" "multi_nat" {
                 = "terraform test"
 name
                 = "vpc-ezij4ltv"
 vpc_id
 max_concurrent = 3000000
 bandwidth
                 = 500
}
```

The following arguments are supported:

- id (Optional) The ID for NAT Gateway.
- name (Optional) The name for NAT Gateway.
- vpc_id (Optional) The VPC ID for NAT Gateway.
- max_concurrent (Optional) The upper limit of concurrent connection of NAT gateway, for example: 1000000, 3000000, 10000000. To learn more, please refer to Virtual Private Cloud Gateway Description.
- bandwidth (Optional) The maximum public network output bandwidth of the gateway (unit: Mbps), for example: 10, 20, 50, 100, 200, 500, 1000, 2000, 5000. For more information, please refer to Virtual Private Cloud Gateway Description.
- assigned_eip_set (Optional) Elastic IP arrays bound to the gateway, For more information on elastic IP, please refer to Elastic IP.
- state (Optional) NAT gateway status, 0: Running, 1: Unavailable, 2: Be in arrears and out of service

» Attributes Reference

The following attributes are exported:

- id The ID of the NAT Gateway.
- name The name of the NAT Gateway.
- max_concurrent The upper limit of concurrent connection of the NAT gateway.
- bandwidth The maximum public network output bandwidth of the NAT gateway (unit: Mbps).
- assigned_eip_set Elastic IP arrays bound to the NAT gateway
- state NAT gateway status, 0: Running, 1: Unavailable, 2: Be in arrears and out of service
- create_time The create time of the NAT gateway

» tencentcloud_redis_instances

Use this data source to query the detail information of redis instance.

```
project_id = 0
limit = 20
result_output_file = "/tmp/redis_instances"
}
```

The following arguments are supported:

- limit (Optional, ForceNew) The number limitation of results for a query.
- project_id (Optional, ForceNew) ID of the project to which redis instance belongs.
- result_output_file (Optional, ForceNew) Used to save results.
- search_key (Optional, ForceNew) Key words used to match the results, and the key words can be: instance ID, instance name and IP address.
- zone (Optional, ForceNew) ID of an available zone.

» Attributes Reference

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

- instance_list A list of redis instance. Each element contains the following attributes:
 - create_time The time when the instance is created.
 - ip IP address of an instance.
 - mem_size Memory size in MB
 - name Name of a redis instance.
 - port The port used to access a redis instance.
 - project_id ID of the project to which a redis instance belongs.
 - redis_id ID of a redis instance.
 - status Current status of an instance maybe: init, processing, online, isolate and todelete.
 - subnet_id ID of the vpc subnet.
 - type Instance type. Available values: master_slave_redis, master_slave_ckv, cluster_ckv, cluster_redis and standalone_redis.
 - vpc_id ID of the vpc with which the instance is associated.
 - zone Available zone to which a redis instance belongs.

» tencentcloud_redis_zone_config

Use this data source to query which instance types of Redis are available in a specific region.

» Example Usage

» Argument Reference

The following arguments are supported:

- region (Optional, ForceNew) Name of a region. If this value is not set, the current region getting from provider's configuration will be used.
- result_output_file (Optional, ForceNew) Used to save results.

» Attributes Reference

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

- list A list of zone. Each element contains the following attributes:

 mem_sizes The memory volume of an available instance in MB.
 - type Instance type. Available values: master_slave_redis, master_slave_ckv, cluster_ckv, cluster_redis and standalone_redis.
 - version Version description of an available instance. Possible values: Redis 3.2, Redis 4.0.
 - zone ID of available zone.

» tencentcloud route table

tencentcloud_route_table provides details about a specific Route Table.

This resource can prove useful when a module accepts a Subnet id as an input variable and needs to, for example, add a route in the Route Table.

NOTE: It has been deprecated and replaced by tencentcloud_vpc_route_tables.

» Example Usage

The following example shows how one might accept a vpc id as a variable and use this data source to obtain the data necessary to create a route.

```
variable "route_table_id" {}

data "tencentcloud_route_table" "selected" {
  route_table_id = "${var.route_table_id}"
}

resource "tencentcloud_route_entry" "rtb_entry_instance" {
  vpc_id = "{data.tencentcloud_route_table.selected.vpc_id}"
  route_table_id = "${var.route_table_id}"
  cidr_block = "10.4.8.0/24"
  next_type = "instance"
  next_hub = "10.16.1.7"
}
```

The arguments of this data source act as filters for querying the available Route Table in the current region. The given filters must match exactly one Route Table whose data will be exported as attributes.

• route_table_id - (Required) The Route Table ID.

» Attributes Reference

- name The name for Route Table.
- vpc_id The VPC ID.
- routes routes are also exported with the following attributes, when there are relevants: Each route supports the following:
 - cidr_block The RouteEntry's target network segment.
 - next type The next hub type.
 - next_hub The RouteEntry's next hub.
 - description The RouteEntry's description.
- subnet_num Number of associated subnets.
- create_time Creation time of routing table, for example: 2018-01-22 17:50:21.

» tencentcloud_security_group

Use this data source to query detailed information of security group.

NOTE: It has been deprecated and replaced by tencentcloud_security_groups.

» Example Usage

```
data "tencentcloud_security_group" "sglab" {
   security_group_id = "${tencentcloud_security_group.sglab.id}"
}
```

» Argument Reference

The following arguments are supported:

- security_group_id (Required) ID of the security group to be queried.
- description (Optional) Description of the security group.
- name (Optional) Name of the security group to be queried.

» Attributes Reference

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

- be_associate_count Number of security group binding resources.
- create_time Creation time of security group.

» tencentcloud_security_groups

Use this data source to query detailed information of security groups.

» Example Usage

```
data "tencentcloud_security_groups" "sglab" {
   security_group_id = "${tencentcloud_security_group.sglab.id}"
}
```

» Argument Reference

- name (Optional) Name of the security group to be queried. Conflict with security_group_id.
- project_id (Optional) Project ID of the security group. Conflict with security_group_id.
- security_group_id (Optional) ID of the security group to be queried. Conflict with name and project_id.

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

```
• security_groups - Information list of security group.
```

- be_associate_count Number of security group binding resources.
- create time Creation time of security group.
- description Description of the security group.
- name Name of the security group.
- project_id Project ID of the security group.
- security_group_id ID of the security group.

» tencentcloud subnet

tencentcloud_subnet provides details about a specific VPC subnet.

This resource can prove useful when a module accepts a subnet id as an input variable and needs to, for example, determine the id of the VPC that the subnet belongs to.

NOTE: It has been deprecated and replaced by tencentcloud vpc subnets.

» Example Usage

The following example shows how one might accept a subnet id as a variable and use this data source to obtain the data necessary to create a security group that allows connections from hosts in that subnet.

```
variable "subnet_id" {}
variable "vpc_id" {}

data "tencentcloud_subnet" "selected" {
   vpc_id = "${var.vpc_id}"
   subnet_id = "${var.subnet_id}"
}

resource "tencentcloud_security_group" "default" {
   name = "test subnet data"
   description = "test subnet data description"
}

resource "tencentcloud_security_group_rule" "subnet" {
   security_group_id = "${tencentcloud_security_group.default.id}"
   type = "ingress"
   cidr_ip = "${data.tencentcloud_subnet.selected.cidr_block}"
```

The arguments of this data source act as filters for querying the available subnets in the current region. The given filters must match exactly one subnet whose data will be exported as attributes.

- vpc_id (Required) The VPC ID.
- subnet_id (Required) The ID of the Subnet.

» Attributes Reference

The following attributes are exported:

- name The name for the Subnet.
- cidr_block The CIDR block of the Subnet.
- availability_zone- The AZ for the subnet.
- route_table_id The Route Table ID.

» tencentcloud_vpc

tencentcloud_vpc provides details about a specific VPC.

This resource can prove useful when a module accepts a vpc id as an input variable and needs to, for example, determine the CIDR block of that VPC.

NOTE: It has been deprecated and replaced by tencentcloud_vpc_instances.

» Example Usage

The following example shows how one might accept a VPC id as a variable and use this data source to obtain the data necessary to create a subnet within it.

```
variable "vpc_id" {}

data "tencentcloud_vpc" "selected" {
  id = "${var.vpc_id}"
}

resource "tencentcloud_subnet" "main" {
```

```
name = "my test subnet"
cidr_block = "${cidrsubnet(data.tencentcloud_vpc.selected.cidr_block, 4, 1)}"
availability_zone = "eu-frankfurt-1"
vpc_id = "${data.tencentcloud_vpc.selected.id}"
```

The following arguments are supported:

- id (Optional) The id of the specific VPC to retrieve.
- name (Optional) VPC name. Fuzzy search is supported, as defined by the underlying TencentCloud API.

» Attributes Reference

All of the argument attributes except filter blocks are also exported as result attributes. This data source will complete the data by populating any fields that are not included in the configuration with the data for the selected VPC.

The following attribute is additionally exported:

- cidr_block The CIDR block of the VPC.
- is default Whether or not the default VPC.
- is_multicast Whether or not the VPC has Multicast support.

» tencentcloud_vpc_instances

Use this data source to query vpc instances' information.

}

» Argument Reference

The following arguments are supported:

- name (Optional, ForceNew) Name of the VPC to be queried.
- result_output_file (Optional, ForceNew) Used to save results.
- vpc_id (Optional, ForceNew) ID of the VPC to be queried.

» Attributes Reference

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

- instance_list The information list of the VPC.
 - cidr_block A network address block of a VPC CIDR.
 - create_time Creation time of VPC.
 - dns_servers A list of DNS servers which can be used within the VPC.
 - is_default Indicates whether it is the default VPC for this region.
 - is_multicast Indicates whether VPC multicast is enabled.
 - name Name of the VPC.
 - subnet_ids A ID list of subnets within this VPC.
 - vpc_id ID of the VPC.

» tencentcloud_vpc_route_tables

Use this data source to query vpc route tables information.

```
variable "availability_zone" {
  default = "ap-guangzhou-3"
}

resource "tencentcloud_vpc" "foo" {
  name = "guagua-ci-temp-test"
  cidr_block = "10.0.0.0/16"
}

resource "tencentcloud_route_table" "route_table" {
  vpc_id = "${tencentcloud_vpc.foo.id}"
```

```
name = "ci-temp-test-rt"
}
data "tencentcloud_vpc_route_tables" "id_instances" {
  route_table_id = "${tencentcloud_route_table.route_table.id}"
}
data "tencentcloud_vpc_route_tables" "name_instances" {
  name = "${tencentcloud_route_table.route_table.name}"
}
```

The following arguments are supported:

- name (Optional, ForceNew) Name of the routing table to be queried.
- result_output_file (Optional, ForceNew) Used to save results.
- route_table_id (Optional, ForceNew) ID of the routing table to be queried.

» Attributes Reference

- instance list The information list of the VPC.
 - create_time Creation time of the routing table.
 - is_default Indicates whether it is the default routing table.
 - name Name of the routing table.
 - route_entry_infos Detailed information of each entry of the route table.
 - description Description information user defined for a route table rule.
 - destination_cidr_block The destination address block.
 - next_hub ID of next-hop gateway. Note: when 'next_type' is EIP,
 GatewayId will fix the value '0'.
 - next_type Type of next-hop, and available values include CVM, VPN, DIRECTCONNECT, PEERCONNECTION, SSLVPN, NAT, NORMAL CVM, EIP and CCN.
 - route_entry_id ID of a route table entry.
 - route table id ID of the routing table.
 - subnet_ids List of subnet IDs bound to the route table.
 - vpc_id ID of the VPC.

» tencentcloud_vpc_subnets

Use this data source to query vpc subnets information.

» Example Usage

```
variable "availability_zone" {
 default = "ap-guangzhou-3"
resource "tencentcloud_vpc" "foo" {
 name = "guagua_vpc_instance_test"
 cidr_block = "10.0.0.0/16"
resource "tencentcloud_subnet" "subnet" {
 availability_zone = "${var.availability_zone}"
                 = "guagua_vpc_subnet_test"
 name
 vpc_id
                 = "${tencentcloud_vpc.foo.id}"
 cidr_block
                 = "10.0.20.0/28"
 is_multicast
                   = false
data "tencentcloud_vpc_subnets" "id_instances" {
 subnet_id = "${tencentcloud_subnet.subnet.id}"
}
data "tencentcloud_vpc_subnets" "name_instances" {
 name = "${tencentcloud subnet.subnet.name}"
}
```

» Argument Reference

The following arguments are supported:

- name (Optional, ForceNew) Name of the subnet to be queried.
- result_output_file (Optional, ForceNew) Used to save results.
- subnet_id (Optional, ForceNew) ID of the subnet to be queried.

» Attributes Reference

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

• instance_list - List of subnets.

```
availability_zone - The availability zone of the subnet.
available_ip_count - The number of available IPs.
cidr_block - A network address block of the subnet.
create_time - Creation time of the subnet resource.
is_default - Indicates whether it is the default subnet of the VPC for this region.
is_multicast - Indicates whether multicast is enabled.
name - Name of the subnet.
route_table_id - ID of the routing table.
subnet_id - ID of the subnet.
vpc_id - ID of the VPC.
```

» tencentcloud_as_scaling_config

Provides a resource to create a configuration for an AS (Auto scaling) instance.

```
resource "tencentcloud_as_scaling_config" "launch_configuration" {
  configuration_name = "launch-configuration"
                    = "img-9qabwvbn"
  image_id
  instance_types
                    = ["SA1.SMALL1"]
 project_id
                    = 0
  system_disk_type = "CLOUD_PREMIUM"
                    = "50"
  system_disk_size
  data_disk = {
   disk_type = "CLOUD_PREMIUM"
    disk_size = 50
  internet_charge_type
                         = "TRAFFIC_POSTPAID_BY_HOUR"
  internet_max_bandwidth_out = 10
 public_ip_assigned
                            = true
 password
                            = "test123#"
  enhanced_security_service = false
  enhanced_monitor_service
                            = false
  user_data
                            = "dGVzdA=="
  instance_tags = {
    tag = "as"
}
```

The following arguments are supported:

- configuration name (Required) Name of a launch configuration.
- image_id (Required) An available image ID for a cvm instance.
- instance_types (Required) Specified types of CVM instances.
- data_disk (Optional) Configurations of data disk.
- enhanced_monitor_service (Optional) To specify whether to enable cloud monitor service. Default is TRUE.
- enhanced_security_service (Optional) To specify whether to enable cloud security service. Default is TRUE.
- instance_tags (Optional) A list of tags used to associate different resources.
- internet_charge_type (Optional) Charge types for network traffic. Available values include TRAFFIC_POSTPAID_BY_HOUR.
- internet_max_bandwidth_out (Optional) Max bandwidth of Internet access in Mbps. Default is 0.
- keep_image_login (Optional) Specify whether to keep original settings of a CVM image. And it can't be used with password or key ids together.
- key_ids (Optional) ID list of keys.
- password (Optional) Password to access.
- project_id (Optional) Specifys to which project the configuration belongs.
- public_ip_assigned (Optional) Specify whether to assign an Internet IP address.
- security_group_ids (Optional) Security groups to which a CVM instance belongs.
- system_disk_size (Optional) Volume of system disk in GB. Default is 50
- system_disk_type (Optional) Type of a CVM disk, and available values include CLOUD_PREMIUM and CLOUD_SSD. Default is CLOUD_PREMIUM
- user_data (Optional) ase64-encoded User Data text, the length limit is 16KB.

The data_disk object supports the following:

- disk_size (Optional) Volume of disk in GB. Default is 0.
- disk_type (Optional) Types of disk available values: CLOUD_PREMIUM and CLOUD_SSD.
- snapshot_id (Optional) Data disk snapshot ID.

» Attributes Reference

- create_time The time when the launch configuration was created.
- status Current statues of a launch configuration.

» Import

AutoScaling Configuration can be imported using the id, e.g.

\$ terraform import tencentcloud_as_scaling_config.scaling_config asc-n32ymck2

» tencentcloud_as_scaling_group

Provides a resource to create a group of AS (Auto scaling) instances.

```
resource "tencentcloud_as_scaling_group" "scaling_group" {
  scaling_group_name = "tf-as-scaling-group"
  configuration_id = "asc-oqio4yyj"
 max_size
                     = 1
 min_size
                   = 0
                   = "vpc-3efmz0z"
 vpc_id
 subnet_ids = ["subnet-mc3egos"]
project_id = 0
 default_cooldown = 400
 desired_capacity = 1
 termination_policies = ["NEWEST_INSTANCE"]
 retry_policy = "INCREMENTAL_INTERVALS"
  forward_balancer_ids {
   load_balancer_id = "lb-hk693b11"
   listener_id = "lbl-81wr497k"
   rule_id
                 = "loc-kiodx943"
   target_attribute {
     port = 80
     weight = 90
   }
}
```

The following arguments are supported:

- configuration_id (Required) An available ID for a launch configuration.
- max size (Required) Maximum number of CVM instances (0~2000).
- min_size (Required) Minimum number of CVM instances (0~2000).
- scaling_group_name (Required) Name of a scaling group.
- vpc_id (Required) ID of VPC network.
- default_cooldown (Optional) Default cooldown time in second, and default value is 300.
- desired_capacity (Optional) Desired volume of CVM instances, which is between max_size and min_size.
- forward_balancer_ids (Optional) List of application load balancers, which can't be specified with load_balancer_ids together.
- load_balancer_ids (Optional) ID list of traditional load balancers.
- project_id (Optional) Specifys to which project the scaling group belongs.
- retry_policy (Optional) Available values for retry policies include IM-MEDIATE RETRY and INCREMENTAL INTERVALS.
- subnet_ids (Optional) ID list of subnet, and for VPC it is required.
- termination_policies (Optional) Available values for termination policies include OLDEST_INSTANCE and NEWEST_INSTANCE.
- zones (Optional) List of available zones, for Basic network it is required.

The forward_balancer_ids object supports the following:

- listener_id (Required) Listener ID for application load balancers.
- load_balancer_id (Required) ID of available load balancers.
- target_attribute (Required) Attribute list of target rules.
- rule_id (Optional) ID of forwarding rules.

The target_attribute object supports the following:

- port (Required) Port number.
- weight (Required) Weight.

» Attributes Reference

- instance_count The time when the AS group was created.
- status Current status of a scaling group.

» Import

AutoScaling Groups can be imported using the id, e.g.

\$ terraform import tencentcloud_as_scaling_group.scaling_group asg-n32ymck2

» tencentcloud_as_attachment

Provides a resource to attach or detach CVM instances to a specified scaling group.

» Example Usage

```
resource "tencentcloud_as_attachment" "attachment" {
   scaling_group_id = "sg-afasfa"
   instance_ids = ["ins-01", "ins-02"]
}
```

» Argument Reference

The following arguments are supported:

- instance_ids (Required) ID list of CVM instances to be attached to the scaling group.
- scaling_group_id (Required, ForceNew) ID of a scaling group.

» tencentcloud_as_scaling_policy

Provides a resource for an AS (Auto scaling) policy.

```
resource "tencentcloud_as_scaling_policy" "scaling_policy" {
   scaling_group_id = "asg-n32ymck2"
   policy_name = "tf-as-scaling-policy"
   adjustment_type = "EXACT_CAPACITY"
   adjustment_value = 0
   comparison_operator = "GREATER_THAN"
   metric_name = "CPU_UTILIZATION"
   threshold = 80
   period = 300
```

```
continuous_time = 10
statistic = "AVERAGE"
cooldown = 360
}
```

The following arguments are supported:

- adjustment_type (Required) Specifies whether the adjustment is an absolute number or a percentage of the current capacity. Available values include CHANGE_IN_CAPACITY, EXACT_CAPACITY and PERCENT_CHANGE_IN_CAPACITY.
- adjustment_value (Required) Define the number of instances by which to scale.For CHANGE_IN_CAPACITY type or PER-CENT_CHANGE_IN_CAPACITY, a positive increment adds to the current capacity and a negative value removes from the current capacity. For EXACT_CAPACITY type, it defines an absolute number of the existing Auto Scaling group size.
- comparison_operator (Required) Comparison operator, of which valid values can be GREATER_THAN, GREATER_THAN_OR_EQUAL_TO, LESS_THAN, LESS_THAN_OR_EQUAL_TO, EQUAL_TO and NOT EQUAL TO.
- continuous_time (Required) Retry times (1~10).
- metric_name (Required) Name of an indicator, which can be CPU_UTILIZATION, MEM_UTILIZATION, LAN_TRAFFIC_OUT, LAN_TRAFFIC_IN, WAN_TRAFFIC_OUT and WAN_TRAFFIC_IN.
- period (Required) Time period in second, of which valid values can be 60 and 300.
- policy_name (Required) Name of a policy used to define a reaction when an alarm is triggered.
- scaling_group_id (Required, ForceNew) ID of a scaling group.
- threshold (Required) Alarm threshold.
- cooldown (Optional) Cooldwon time in second. Default is 300.
- notification_user_group_ids (Optional) An ID group of users to be notified when an alarm is triggered.
- statistic (Optional) Statistic types, include AVERAGE, MAXIMUM and MINIMUM. Default is AVERAGE.

» tencentcloud_as_schedule

Provides a resource for an AS (Auto scaling) schedule.

» Example Usage

```
resource "tencentcloud_as_schedule" "schedule" {
                   = "sg-12af45"
  scaling_group_id
 schedule_action_name = "tf-as-schedule"
                     = 10
 max_size
 min_size
                      = 0
 desired capacity
                    = 0
 start_time
                      = "2019-01-01T00:00:00+08:00"
 end time
                    = "2019-12-01T00:00:00+08:00"
 recurrence
                     = "0 0 * * *"
}
```

» Argument Reference

The following arguments are supported:

- desired_capacity (Required) The desired number of CVM instances that should be running in the group.
- max_size (Required) The maximum size for the Auto Scaling group.
- min_size (Required) The minimum size for the Auto Scaling group.
- scaling group id (Required, ForceNew) ID of a scaling group.
- schedule_action_name (Required) The name of this scaling action.
- start_time (Required) The time for this action to start, in "YYYY-MM-DDThh:mm:ss+08:00" format (UTC+8).
- end_time (Optional) The time for this action to end, in "YYYY-MM-DDThh:mm:ss+08:00" format (UTC+8).
- recurrence (Optional) The time when recurring future actions will start. Start time is specified by the user following the Unix cron syntax format. And this argument should be set with end time together.

$\ \ \, * tencent cloud_as_life cycle_hook$

Provides a resource for an AS (Auto scaling) lifecycle hook.

```
notification_metadata = "tf test"
notification_target_type = "CMQ_QUEUE"
notification_queue_name = "lifcyclehook"
}
```

The following arguments are supported:

- lifecycle_hook_name (Required) The name of the lifecycle hook.
- lifecycle_transition (Required) The instance state to which you want to attach the lifecycle hook. The valid values are IN-STANCE LAUNCHING and INSTANCE TERMINATING.
- scaling_group_id (Required, ForceNew) ID of a scaling group.
- default_result (Optional) Defines the action the AS group should take
 when the lifecycle hook timeout elapses or if an unexpected failure occurs.
 The valid values are CONTINUE and ABANDON. The default value is
 CONTINUE.
- heartbeat_timeout (Optional) Defines the amount of time, in seconds, that can elapse before the lifecycle hook times out. The range is 30 to 3600, and default value is 300.
- notification_metadata (Optional) Contains additional information that you want to include any time AS sends a message to the notification target.
- $notification_queue_name$ (Optional) For CMQ_QUEUE type, a name of queue must be set.
- notification_target_type (Optional) Target type, which can be CMQ QUEUE or CMQ TOPIC.
- notification_topic_name (Optional) For CMQ_TOPIC type, a name of topic must be set.

» tencentcloud_as_notification

Provides a resource for an AS (Auto scaling) notification.

The following arguments are supported:

- notification_types (Required) A list of Notification Types that trigger notifications. Acceptable values are SCALE_OUT_FAILED, SCALE_IN_SUCCESSFUL, SCALE_IN_FAILED, REPLACE_UNHEALTHY_INSTANCE_SUCCE and REPLACE_UNHEALTHY_INSTANCE_FAILED.
- notification_user_group_ids (Required) A group of user IDs to be notified.
- scaling_group_id (Required, ForceNew) ID of a scaling group.

» tencentcloud_cbs_storage

Provides a resource to create a CBS.

» Example Usage

» Argument Reference

- availability_zone (Required, ForceNew) The available zone that the CBS instance locates at.
- storage_name (Required) Name of CBS. The maximum length can not exceed 60 bytes.
- storage_size (Required) Volume of CBS.
- storage_type (Required, ForceNew) Type of CBS medium, and available values include CLOUD_BASIC, CLOUD_PREMIUM and CLOUD_SSD.

- encrypt (Optional, ForceNew) Indicates whether CBS is encrypted.
- period (Optional) The purchased usage period of CBS, and value range [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36].
- project_id (Optional) ID of the project to which the instance belongs.
- snapshot_id (Optional) ID of the snapshot. If specified, created the CBS by this snapshot.
- tags (Optional) The available tags within this CBS.

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

- attached Indicates whether the CBS is mounted the CVM.
- storage_status Status of CBS, and available values include UNATTACHED, ATTACHING, ATTACHED, DETACHING, EXPANDING, ROLLBACKING, TORECYCLE and DUMPING.

» Import

CBS storage can be imported using the id, e.g.

\$ terraform import tencentcloud_cbs_storage.storage disk-41s6jwy4

» tencentcloud_cbs_storage_attachment

Provides a CBS storage attachment resource.

» Example Usage

```
resource "tencentcloud_cbs_storage_attachment" "attachment" {
   storage_id = "disk-kdt0sq6m"
   instance_id = "ins-jqlegd42"
}
```

» Argument Reference

- instance_id (Required, ForceNew) ID of the CVM instance.
- storage_id (Required, ForceNew) ID of the mounted CBS.

» tencentcloud_cbs_snapshot

Provides a resource to create a CBS snapshot.

» Example Usage

```
resource "tencentcloud_cbs_snapshot" "snapshot" {
   snapshot_name = "unnamed"
   storage_id = "disk-kdt0sq6m"
}
```

» Argument Reference

The following arguments are supported:

- snapshot_name (Required) Name of the snapshot.
- storage_id (Required, ForceNew) ID of the the CBS which this snapshot created from.

» Attributes Reference

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

- create_time Creation time of snapshot.
- disk_type Types of CBS which this snapshot created from.
- percent Snapshot creation progress percentage. If the snapshot has created successfully, the constant value is 100.
- snapshot_status Status of the snapshot.
- ${\tt storage_size}$ Volume of storage which this snapshot created from.

» Import

CBS snapshot can be imported using the id, e.g.

\$ terraform import tencentcloud_cbs_snapshot.snapshot snap-3sa3f39b

» tencentcloud_cbs_snapshot_policy

Provides a snapshot policy resource.

» Example Usage

```
resource "tencentcloud-cbs_snapshot_policy" "snapshot_policy" {
   snapshot_policy_name = "mysnapshotpolicyname"
   repeat_weekdays = [1, 4]
   repeat_hours = [1]
   retention_days = 7
}
```

» Argument Reference

The following arguments are supported:

- repeat_hours (Required) Trigger times of periodic snapshot, the available values are 0 to 23. The 0 means 00:00, and so on.
- repeat_weekdays (Required) Periodic snapshot is enabled, the available values are [0, 1, 2, 3, 4, 5, 6]. 0 means Sunday, 1-6 means Monday to Saturday.
- snapshot_policy_name (Required) Name of snapshot policy. The maximum length can not exceed 60 bytes.
- retention_days (Optional) Retention days of the snapshot, and the default value is 7.

» Import

CBS snapshot policy can be imported using the id, e.g.

\$ terraform import tencentcloud_cbs_snapshot_policy.snapshot_policy asp-jliex1tn

» tencentcloud_ccn

Provides a resource to create a CCN instance.

The following arguments are supported:

- name (Required) Name of the CCN to be queried, and maximum length does not exceed 60 bytes.
- description (Optional) Description of CCN, and maximum length does not exceed 100 bytes.
- qos (Optional, ForceNew) Service quality of CCN, and the available value include 'PT', 'AU', 'AG'. The default is 'AU'.

» Attributes Reference

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

- create_time Creation time of resource.
- instance_count Number of attached instances.
- state States of instance. The available value include 'ISO-LATED' (arrears) and 'AVAILABLE'.

» Import

Ccn instance can be imported, e.g.

```
$ terraform import tencentcloud_ccn.test ccn-id
```

» tencentcloud ccn attachment

Provides a CCN attaching resource.

The following arguments are supported:

- ccn_id (Required, ForceNew) ID of the CCN
- instance_id (Required, ForceNew) ID of instance is attached.
- instance_region (Required, ForceNew) The region that the instance locates at.
- instance_type (Required, ForceNew) Type of attached instance network, and available values include VPC, DIRECTCONNECT and BMVPC.

» Attributes Reference

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

- attached_time Time of attaching.
- cidr block A network address block of the instance that is attached.
- state States of instance is attached, and available values include PENDING, ACTIVE, EXPIRED, REJECTED, DELETED, FAILED(asynchronous forced disassociation after 2 hours), ATTACHING, DETACHING and DETACHFAILED(asynchronous forced disassociation after 2 hours).

» tencentcloud ccn bandwidth limit

Provides a resource to limit CCN bandwidth.

» Example Usage

» Argument Reference

The following arguments are supported:

- ccn_id (Required, ForceNew) ID of the CCN
- region (Required, ForceNew) Limitation of region.
- bandwidth_limit (Optional) Limitation of bandwidth.

» tencentcloud_container_cluster

Provides a Container Cluster resource.

NOTE: It has been deprecated and replaced by tencentcloud_kubernetes_cluster.

» Example Usage

Basic Usage

```
= "subnet-abcdabc"
  subnet_id
                                = 0
  is_vpc_gateway
                                = 0
  storage_size
                                = 50
 root_size
  goods_num
                                = 1
                                = "Admin12345678"
 password
                                = "vpc-abcdabc"
  vpc_id
  cluster_cidr
                                = "10.0.2.0/24"
  ignore cluster cidr conflict = 0
                                = "PayByHour"
  cvm_type
                                = "foofoofoo"
  cluster_desc
  period
  zone_id
                                = 100004
                                = "S2.SMALL1"
  instance type
 mount_target
                                = ""
  docker_graph_path
                                = "bar-vm"
  instance_name
                                = "1.7.8"
  cluster_version
}
```

- cluster_name (Required) The name of the cluster.
- cpu (Required) The cpu of the node.
- mem (Required) The memory of the node.
- os name (Required) The system os name of the node.
- bandwidth (Required) The network bandwidth of the node.
- bandwidth type (Required) The network type of the node.
- subnet_id (Required) The subnet id which the node stays in.
- is_vpc_gateway (Required) Describe whether the node enable the gateway capability.
- storage_size (Required) The size of the data volumn.
- storage_type (Optional) The type of the data volumn. see more from CVM.
- root_size (Required) The size of the root volumn.
- root_type (Optional) The type of the root volumn. see more from CVM.
- goods_num (Required) The node number is going to create in the cluster.
- vpc_id (Required) Specify vpc which the node(s) stay in.
- cluster_cidr (Required) The CIDR which the cluster is going to use.
- cluster_desc (Optional) The description of the cluster.
- cvm_type (Optional) The type of node needed by cvm.
- period (Optional) The puchase duration of the node needed by cvm.
- zone id (Required) The zone which the node stays in.

- instance_type (Optional) The instance type of the node needed by cvm.
- sg_id (Optional) The safe-group id.
- mount_target (Optional) The path which volumn is going to be mounted.
- docker_graph_path (Optional) The docker graph path is going to mounted.
- instance_name (Optional) The name ot node.
- cluster_version (Optional) The kubernetes version of the cluster.
- password (Optional) The password of each node.
- key_id (Optional) The key_id of each node(if using key pair to access).
- require_wan_ip (Optional) Indicate whether wan ip is needed.
- user_script (Optional) User defined script in a base64-format. The script runs after the kubernetes component is ready on node. see more from CCS api documents.

» Attributes Reference

The following attributes are exported:

- kubernetes_version The kubernetes version of the cluster
- nodes_num The node number of the cluster
- nodes_status The node status of the cluster
- total_cpu The total cpu of the cluster
- total_mem The total memory of the cluster

» tencentcloud container cluster instance

Provides a Container Cluster Instance resource.

NOTE: It has been deprecated and replaced by tencentcloud kubernetes scale worker.

» Example Usage

Basic Usage

```
root_size
                    = 50
                    = "Admin12345678"
 password
                    = "PayByMonth"
  cvm_type
                    = 1
  period
  zone_id
                    = 100004
                    = "CVM.S2"
  instance_type
                    = "/data"
 mount_target
  docker_graph_path = ""
                    = "subnet-abcdedf"
  subnet id
  cluster_id
                    = "cls-abcdef"
}
```

- cluster_id (Required) The id of the cluster.
- cpu (Required) The cpu of the node.
- mem (Required) The memory of the node.
- bandwidth (Required) The network bandwidth of the node.
- bandwidth_type (Required) The network type of the node.
- require_wan_ip (Optional) Indicate whether wan ip is needed.
- subnet_id (Required) The subnet id which the node stays in.
- is_vpc_gateway (Required) Describe whether the node enable the gateway capability.
- storage_size (Required) The size of the data volumn.
- storage_type (Optional) The type of the data volumn. see more from CVM.
- root_size (Required) The size of the root volumn.
- root type (Optional) The type of the root volumn. see more from CVM.
- vpc_id (Required) Specify vpc which the node(s) stay in.
- cvm_type (Optional) The type of node needed by cvm.
- period (Optional) The puchase duration of the node needed by cvm.
- zone_id (Required) The zone which the node stays in.
- instance_type (Optional) The instance type of the node needed by cvm.
- sg_id (Optional) The safe-group id.
- mount_target (Optional) The path which volumn is going to be mounted.
- docker_graph_path (Optional) The docker graph path is going to mounted.
- password (Optional) The password of each node.
- key_id (Optional) The key_id of each node(if using key pair to access).
- unschedulable (Optional) Determine whether the node will be schedulable. 0 is the default meaning node will be schedulable. 1 for unschedulable.

• user_script - (Optional) User defined script in a base64-format. The script runs after the kubernetes component is ready on node. see more from CCS api documents.

» Attributes Reference

The following attributes are exported:

- abnormal_reason Describe the reason when node is in abnormal state(if it was).
- instance_id An id identify the node, provided by cvm.
- is_normal Describe whether the node is normal.
- wan_ip Describe the wan ip of the node.
- lan_ip Describe the lan ip of the node.

» tencentcloud_clb_instance

Provides a resource to create a CLB instance.

```
INTERNAL CLB
```

```
resource "tencentcloud_clb_instance" "internal_clb" {
 network_type = "INTERNAL"
              = "myclb"
 clb_name
 project_id
             = 0
              = "vpc-7007117q"
 vpc_id
  subnet_id = "subnet-12rastkr"
 tags = {
    test = "tf"
 }
}
OPEN CLB
resource "tencentcloud_clb_instance" "open_clb" {
 network_type
                           = "OPEN"
                           = "myclb"
  clb_name
 project_id
                           = "vpc-da7ffa61"
 vpc_id
                           = ["sg-o0ek7r93"]
  security_groups
  target_region_info_region = "ap-guangzhou"
```

```
target_region_info_vpc_id = "vpc-da7ffa61"

tags = {
   test = "tf"
  }
}
```

The following arguments are supported:

- clb_name (Required) Name of the CLB. The name can only contain Chinese characters, English letters, numbers, underscore and hyphen '-'.
- network_type (Required, ForceNew) Type of CLB instance, and available values include 'OPEN' and 'INTERNAL'.
- project_id (Optional, ForceNew) Id of the project within the CLB instance, '0' Default Project.
- security_groups (Optional) Security groups of the CLB instance. Only supports 'OPEN' CLBs.
- subnet_id (Optional, ForceNew) Subnet id of the CLB. Effective only for CLB within the VPC. Only supports 'INTERNAL' CLBs.
- tags (Optional, ForceNew) The available tags within this CLB.
- target_region_info_region (Optional) Region information of backend services are attached the CLB instance. Only supports 'OPEN' CLBs.
- target_region_info_vpc_id (Optional) Vpc information of backend services are attached the CLB instance. Only supports 'OPEN' CLBs.
- vpc id (Optional, ForceNew) VPC id of the CLB.

» Attributes Reference

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

• clb_vips - The virtual service address table of the CLB.

» Import

CLB instance can be imported using the id, e.g.

\$ terraform import tencentcloud_clb_instance.foo lb-7a0t6zqb

» tencentcloud clb listener

Provides a resource to create a CLB listener.

```
HTTP Listener
resource "tencentcloud_clb_listener" "HTTP_listener" {
              = "lb-0lh5au7v"
 listener_name = "test_listener"
              = 80
 port
 protocol
             = "HTTP"
}
TCP/UDP Listener
resource "tencentcloud_clb_listener" "TCP_listener" {
                         = "lb-0lh5au7v"
 listener_name
                           = "test_listener"
                           = 80
 port
 protocol
                           = "TCP"
 health_check_switch
                           = true
 health_check_time_out
                          = 2
 health_check_interval_time = 5
 health_check_health_num
 health_check_unhealth_num = 3
 session_expire_time
                          = 30
  scheduler
                           = "WRR"
}
HTTPS Listener
resource "tencentcloud_clb_listener" "HTTPS_listener" {
  clb_id
                 = "lb-0lh5au7v"
 listener_name
                    = "test_listener"
                    = "80"
 port
                     = "HTTPS"
 protocol
 certificate_ssl_mode = "MUTUAL"
 certificate_id = "VjAYq9xc"
 certificate_ca_id = "VfqcL1ME"
 sni_switch
                 = true
}
TCP SSL Listener
resource "tencentcloud_clb_listener" "TCPSSL_listener" {
  clb_id
                           = "lb-0lh5au7v"
                           = "test_listener"
 listener_name
                           = "80"
 port
                           = "TCP SSL"
 protocol
 certificate_ssl_mode
                          = "MUTUAL"
                           = "VjAYq9xc"
 certificate_id
```

- clb_id (Required, ForceNew) Id of the CLB.
- listener_name (Required) Name of the CLB listener, and available values can only be Chinese characters, English letters, numbers, underscore and hyphen '-'.
- protocol (Required, ForceNew) Type of protocol within the listener, and available values include 'TCP', 'UDP', 'HTTP', 'HTTPS' and 'TCP SSL'.
- certificate_ca_id (Optional) Id of the client certificate. NOTES: Only supports listeners of 'HTTPS' and 'TCP_SSL' protocol and must be set when the ssl mode is 'MUTUAL'.
- certificate_id (Optional) Id of the server certificate. NOTES: Only supports listeners of 'HTTPS' and 'TCP_SSL' protocol and must be set when it is available.
- certificate_ssl_mode (Optional) Type of certificate, and available values inclue 'UNIDIRECTIONAL', 'MUTUAL'. NOTES: Only supports listeners of 'HTTPS' and 'TCP_SSL' protocol and must be set when it is available.
- health_check_health_num (Optional) Health threshold of health check, and the default is 3. If a success result is returned for the health check for 3 consecutive times, the backend CVM is identified as healthy. The value range is 2-10. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud_clb_listener_rule.
- health_check_interval_time (Optional) Interval time of health check. The value range is 5-300 sec, and the default is 5 sec. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud_clb_listener_rule.
- health_check_switch (Optional) Indicates whether health check is enabled.
- health_check_time_out (Optional) Response timeout of health check.
 The value range is 2-60 sec, and the default is 2 sec. Response timeout needs to be less than check interval. NOTES: Only supports listeners of

- 'TCP', 'UDP', 'TCP_SSL' protocol.
- health_check_unhealth_num (Optional) Unhealth threshold of health check, and the default is 3. If a success result is returned for the health check 3 consecutive times, the CVM is identified as unhealthy. The value range is 2-10. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud clb listener rule.
- port (Optional, ForceNew) Port of the CLB listener.
- scheduler (Optional) Scheduling method of the CLB listener, and available values include 'WRR' and 'LEAST_CONN'. The default is 'WRR'. NOTES: The listener of HTTP and 'HTTPS' protocol additionally supports the 'IP Hash' method. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud clb listener rule.
- session_expire_time (Optional) Time of session persistence within the CLB listener. NOTES: Available when scheduler is specified as 'WRR', and not available when listener protocol is 'TCP_SSL'. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud clb listener rule.
- sni_switch (Optional, ForceNew) Indicates whether SNI is enabled, and only supported with protocol 'HTTPS'. If enabled, you can set a certificate for each rule in tencentcloud_clb_listener_rule, otherwise all rules have a certificate.

» tencentcloud_clb_listener_rule

Provides a resource to create a CLB listener rule.

NOTE: This resource only be applied to the HTTP or HTTPS listeners.

```
resource "tencentcloud_clb_listener_rule" "foo" {
  listener_id
                              = "lbl-hh141sn9"
  clb_id
                              = "lb-k2zjp9lv"
                              = "foo.net"
  domain
                              = "/bar"
  url
 health_check_switch
                              = true
 health_check_interval_time = 5
 health_check_health_num
 health_check_unhealth_num = 3
 health_check_http_code
                              = "http_1xx"
 {\tt health\_check\_http\_path}
                              = "Default Path"
```

- clb_id (Required) Id of CLB instance.
- domain (Required, ForceNew) Domain name of the listener rule.
- listener_id (Required, ForceNew) Id of CLB listener.
- url (Required, ForceNew) Url of the listener rule.
- certificate_ca_id (Optional, ForceNew) Id of the client certificate. NOTES: Only supports listeners of 'HTTPS' protocol.
- certificate_id (Optional, ForceNew) Id of the server certificate. NOTES: Only supports listeners of 'HTTPS' protocol.
- certificate_ssl_mode (Optional, ForceNew) Type of certificate, and available values inclue 'UNIDIRECTIONAL', 'MUTUAL'. NOTES: Only supports listeners of 'HTTPS' protocol.
- health_check_health_num (Optional) Health threshold of health check, and the default is 3. If a success result is returned for the health check 3 consecutive times, indicates that the forwarding is normal. The value range is 2-10. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud clb listener rule.
- health_check_http_code (Optional) HTTP Status Code. The default is 31 and value range is 1-31. '0b0001' means the return value '1xx' is health. '0b0010' means the return value '2xx' is health. '0b0100' means the return value '3xx' is health. '0b1000' means the return value '4xx' is health. 0b10000 means the return value '5xx' is health. If you want multiple return codes to indicate health, need to add the corresponding values. NOTES: The 'HTTP' health check of the 'TCP' listener only supports specifying one health check status code. NOTES: Only supports listeners of 'HTTP' and 'HTTPS' protocol.
- health_check_http_domain (Optional) Domain name of health check. NOTES: Only supports listeners of 'HTTP' and 'HTTPS' protocol.
- health_check_http_method (Optional) Methods of health check. NOTES: Only supports listeners of 'HTTP' and 'HTTPS' protocol. The default is 'HEAD', the available value include 'HEAD' and 'GET'.
- health check http path (Optional) Path of health check. NOTES:

- Only supports listeners of 'HTTP' and 'HTTPS' protocol.
- health_check_interval_time (Optional) Interval time of health check. The value range is 5-300 sec, and the default is 5 sec. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud clb listener rule.
- health_check_switch (Optional) Indicates whether health check is enabled.
- health_check_unhealth_num (Optional) Unhealth threshold of health check, and the default is 3. If the unhealth result is returned 3 consecutive times, indicates that the forwarding is abnormal. The value range is 2-10. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencentcloud clb listener rule.
- scheduler (Optional) Scheduling method of the CLB listener rules, and available values include 'WRR', 'IP HASH' and 'LEAST_CONN'. The default is 'WRR'. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud_clb_listener_rule.
- session_expire_time (Optional) Time of session persistence within the CLB listener. NOTES: Available when scheduler is specified as 'WRR', and not available when listener protocol is 'TCP_SSL'. NOTES: TCP/UDP/TCP_SSL listener allows direct configuration, HTTP/HTTPS listener needs to be configured in tencent-cloud_clb_listener_rule.

» tencentcloud_clb_attachment

Provides a resource to create a CLB attachment.

The following arguments are supported:

- clb_id (Required, ForceNew) Id of the clb.
- listener_id (Required, ForceNew) Id of the clb listener.
- targets (Required) Information of the backends to be attached.
- rule_id (Optional, ForceNew) Id of the clb listener rule. Only supports listeners of 'HTTPS' and 'HTTP' protocol.

The targets object supports the following:

- instance_id (Required) Id of the backend server.
- port (Required) Port of the backend server.
- weight (Optional) Forwarding weight of the backend service, the range of [0, 100], defaults to 10.

» Attributes Reference

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

• protocol_type - Type of protocol within the listener.

» Import

CLB attachment can be imported using the id, e.g.

\$ terraform import tencentcloud_clb_attachment.foo loc-4xxr2cy7#lbl-hh141sn9#lb-7a0t6zqb

» tencentcloud clb redirection

Provides a resource to create a CLB redirection.

The following arguments are supported:

- clb id (Required, ForceNew) Id of CLB instance.
- source_listener_id (Required, ForceNew) Id of source listener.
- source_rule_id (Required, ForceNew) Rule id of source listener.
- target_listener_id (Required, ForceNew) Id of source listener.
- target_rule_id (Required, ForceNew) Rule id of target listener.

» Import

CLB redirection can be imported using the id, e.g.

\$ terraform import tencentcloud_clb_redirection.foo loc-ft8fmngv#loc-4xxr2cy7#lbl-jc1dx6ju#

» tencentcloud lb

Provides a Load Balancer resource.

NOTE: It has been deprecated and replaced by tencentcloud_clb_instance.

» Example Usage

Basic usage:

» Argument Reference

- type (Required) The network type of the LB, valid choices: "OPEN", "INTERNAL".
- forward (Optional) The type of the LB, valid choices: "CLASSIC", "APPLICATION".
- name (Optional) The name of the LB.
- vpc_id (Optional) The VPC ID of the LB, unspecified or 0 stands for CVM basic network.

• project_id - (Optional) The project id of the LB, unspecified or 0 stands for default project.

» Attributes Reference

The following attributes are exported in addition to the arguments listed above:

• status - The status of the LB.

» tencentcloud alb server attachment

Provides Load Balancer server attachment resource.

 ${\bf NOTE:} It has been deprecated and replaced by {\tt tencentcloud_clb_attachment}.$

NOTE: Currently only support existing loadbalancer_id listener_id location_id and Application layer 7 load balancer

» Example Usage

```
resource "tencentcloud_alb_server_attachment" "service1" {
 loadbalancer_id = "lb-qk1dqox5"
              = "lbl-ghoke4tl"
 listener_id
 location_id = "loc-i858qv11"
 backends = [
   {
     instance_id = "ins-4j30i5pe"
     port = 80
     weight
              = 50
   },
     instance_id = "ins-4j30i5pe"
             = 8080
     port
     weight
   },
 ]
}
```

» Argument Reference

- loadbalancer_id (Required, Forces new resource) loadbalancer ID.
- listener_id (Required, Forces new resource) listener ID.
- location_id (Optional) location ID only support for layer 7 loadbalancer
- backends (Required) list of backend server. Valid value range [1-100].

» Block backends

The backends mapping supports the following:

- instance_id (Required) A list backend instance ID (CVM instance ID).
- port (Required) The port used by the backend server. Valid value range: [1-65535].
- weight (Optional) Weight of the backend server. Valid value range: [0-100]. Default to 10.

» Attributes Reference

The following attributes are exported:

- loadbalancer_id loadbalancer ID.
- listener_id listener ID.
- location_id location ID (only support for layer 7 loadbalancer)
- protocol_type http or tcp

» tencentcloud cos bucket

Provides a COS resource to create a COS bucket and set its attributes.

» Example Usage

website = {

```
Private Bucket

resource "tencentcloud_cos_bucket" "mycos" {
  bucket = "mycos-1258798060"
  acl = "private"
}

Static Website

resource "tencentcloud_cos_bucket" "mycos" {
  bucket = "mycos-1258798060"
```

```
index_document = "index.html"
    error_document = "error.html"
 }
}
Using CORS
resource "tencentcloud_cos_bucket" "mycos" {
 bucket = "mycos-1258798060"
        = "public-read-write"
  cors_rules {
    allowed_origins = ["http://*.abc.com"]
    allowed_methods = ["PUT", "POST"]
    allowed headers = ["*"]
   max_age_seconds = 300
    expose_headers = ["Etag"]
}
Using object lifecycle
resource "tencentcloud_cos_bucket" "mycos" {
 bucket = "mycos-1258798060"
 acl
         = "public-read-write"
 lifecycle_rules {
    filter_prefix = "path1/"
   transition {
      date
                    = "2019-06-01"
      storage_class = "STANDARD_IA"
    }
    expiration {
      days = 90
 }
}
```

- bucket (Required, ForceNew) The name of a bucket to be created.
- acl (Optional) The canned ACL to apply. Available values include private, public-read, and public-read-write. Defaults to private.

- cors_rules (Optional) A rule of Cross-Origin Resource Sharing (documented below).
- lifecycle_rules (Optional) A configuration of object lifecycle management (documented below).
- website (Optional) A website object(documented below).

The cors_rules object supports the following:

- allowed_headers (Required) Specifies which headers are allowed.
- allowed_methods (Required) Specifies which methods are allowed. Can be GET, PUT, POST, DELETE or HEAD.
- allowed_origins (Required) Specifies which origins are allowed.
- expose_headers (Optional) Specifies expose header in the response.
- max_age_seconds (Optional) Specifies time in seconds that browser can cache the response for a preflight request.

The lifecycle_rules object supports the following:

- filter_prefix (Required) Object key prefix identifying one or more objects to which the rule applies.
- expiration (Optional) Specifies a period in the object's expire (documented below).
- transition (Optional) Specifies a period in the object's transitions (documented below).

The transition object supports the following:

- storage_class (Required) Specifies the storage class to which you want the object to transition. Available values include STANDARD, STAN-DARD IA and ARCHIVE.
- date (Optional) Specifies the date after which you want the corresponding action to take effect.
- days (Optional) Specifies the number of days after object creation when the specific rule action takes effect.

The expiration object supports the following:

- date (Optional) Specifies the date after which you want the corresponding action to take effect.
- days (Optional) Specifies the number of days after object creation when the specific rule action takes effect.

The website object supports the following:

- error_document (Optional) An absolute path to the document to return in case of a 4XX error.
- index_document (Optional) COS returns this index document when requests are made to the root domain or any of the subfolders.

» Import

COS bucket can be imported, e.g.

\$ terraform import tencentcloud cos bucket.bucket bucket-name

» tencentcloud_cos_bucket_object

Provides a COS object resource to put an object (content or file) to the bucket.

» Example Usage

```
Uploading a file to a bucket
resource "tencentcloud_cos_bucket_object" "myobject" {
  bucket = "mycos-1258798060"
  key = "new_object_key"
  source = "path/to/file"
}
Uploading a content to a bucket
resource "tencentcloud_cos_bucket" "mycos" {
  bucket = "mycos-1258798060"
  acl = "public-read"
}
resource "tencentcloud_cos_bucket_object" "myobject" {
  bucket = "${tencentcloud_cos_bucket.mycos.bucket}"
  key = "new_object_key"
  content = "the content that you want to upload."
}
```

» Argument Reference

- bucket (Required, ForceNew) The name of a bucket to use.
- key (Required, ForceNew) The name of the object once it is in the bucket.
- acl (Optional) The canned ACL to apply. Available values include private, public-read, and public-read-write. Defaults to private.
- \bullet cache_control (Optional) Specifies caching behavior along the request/reply chain. For further details RFC2616 can be referred.
- content_disposition (Optional) Specifies presentational information for the object.

- content_encoding (Optional) Specifies what content encodings have been applied to the object and thus what decoding mechanisms must be applied to obtain the media-type referenced by the Content-Type header field.
- content_type (Optional) A standard MIME type describing the format of the object data.
- content (Optional) Literal string value to use as the object content, which will be uploaded as UTF-8-encoded text.
- etag (Optional) The ETag generated for the object (an MD5 sum of the object content).
- source (Optional) The path to the source file being uploaded to the bucket.
- storage_class (Optional) Object storage type, Available values include STANDARD, STANDARD_IA and ARCHIVE.

» tencentcloud instance

Provides a CVM instance resource.

NOTE: You can launch an CVM instance for a VPC network via specifying parameter vpc_id. One instance can only belong to one VPC.

NOTE: At present, 'PREPAID' instance cannot be deleted and must wait it to be outdated and released automatically.

```
data "tencentcloud_image" "my_favorate_image" {
    os_name = "centos"

filter {
    name = "image-type"
    values = ["PUBLIC_IMAGE"]
  }
}
data "tencentcloud_instance_types" "my_favorate_instance_types" {
    filter {
        name = "instance-family"
        values = ["S3"]
  }
  cpu_core_count = 1
    memory_size = 1
```

```
}
data "tencentcloud_availability_zones" "my_favorate_zones" {}
// Create VPC resource
resource "tencentcloud_vpc" "app" {
  cidr_block = "10.0.0.0/16"
            = "awesome_app_vpc"
 name
resource "tencentcloud_subnet" "app" {
                  = "${tencentcloud_vpc.app.id}"
  availability_zone = "${data.tencentcloud_availability_zones.my_favorate_zones.cones.0.name
                  = "awesome app subnet"
  cidr_block
                  = "10.0.1.0/24"
}
// Create 2 CVM instances to host awesome_app
resource "tencentcloud_instance" "my_awesome_app" {
  instance_name
                            = "awesome_app"
  availability_zone
                             = "${data.tencentcloud_availability_zones.my_favorate_zones.zon
                             = "${data.tencentcloud_image.my_favorate_image.image_id}"
  image_id
                             = "${data.tencentcloud_instance_types.my_favorate_instance_type
  instance_type
                             = "CLOUD_PREMIUM"
  system_disk_type
  system_disk_size
                             = 50
 hostname
                             = "user"
 project_id
                             = "${tencentcloud_vpc.app.id}"
 vpc_id
                             = "${tencentcloud_subnet.app.id}"
  subnet_id
  internet_max_bandwidth_out = 20
  count
                             = 2
 data_disks {
    data_disk_type = "CLOUD_PREMIUM"
    data_disk_size = 50
 }
  tags = {
    tagKey = "tagValue"
}
```

- availability_zone (Required, ForceNew) The available zone that the CVM instance locates at.
- image_id (Required, ForceNew) The Image to use for the instance. Change 'image id' will case instance destroy and re-created.
- allocate_public_ip (Optional, ForceNew) Associate a public ip address with an instance in a VPC or Classic. Boolean value, Default is false.
- data_disks (Optional) Settings for data disk.
- disable_monitor_service (Optional) Disable enhance service for monitor, it is enabled by default. When this options is set, monitor agent won't be installed.
- disable_security_service (Optional) Disable enhance service for security, it is enabled by default. When this options is set, security agent won't be installed.
- hostname (Optional, ForceNew) The hostname of CVM.
- instance_charge_type_prepaid_period (Optional) The tenancy (time unit is month) of the prepaid instance, NOTE: it only works when instance_charge_type is set to PREPAID. Valid values are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36.
- instance_charge_type_prepaid_renew_flag (Optional) When enabled, the CVM instance will be renew automatically when it reach the end of the prepaid tenancy. Valid values are NOTIFY_AND_AUTO_RENEW, NOTIFY_AND_MANUAL_RENEW and DISABLE_NOTIFY_AND_MANUAL_RENEW. NOTE: it only works when instance charge type is set to PREPAID.
- instance_charge_type (Optional, ForceNew) The charge type of instance. Valid values are PREPAID, POSTPAID_BY_HOUR and SPOTPAID, The default is POSTPAID BY HOUR.
- instance_name (Optional) The name of the CVM. The max length of instance_name is 60, and default value is Terrafrom-CVM-Instance.
- instance_type (Optional, ForceNew) The type of instance to start.
- internet_charge_type (Optional, ForceNew) Internet charge type of the instance, Valid values are BANDWIDTH_PREPAID, TRAFFIC_POSTPAID_BY_HOUR, BANDWIDTH_POSTPAID_BY_HOUR and BANDWIDTH_PACKAGE. The default is TRAFFIC_POSTPAID_BY_HOUR.
- internet_max_bandwidth_out (Optional, ForceNew) Maximum outgoing bandwidth to the public network, measured in Mbps (Mega bit per second). Value range: [0, 100], If this value is not specified, then automatically sets it to 0 Mbps.
- key_name (Optional) The key pair to use for the instance, it looks like skey-16jig7tx.
- password (Optional) Password to an instance. In order to take effect new password, the instance will be restarted after modifying the password.
- private_ip (Optional) The private ip to be assigned to this instance, must be in the provided subnet and available.
- project id (Optional) The project CVM belongs to, default to 0.
- running_flag (Optional) Set instance to running or stop. Default value

- is true, the instance will shutdown when flag is false.
- security_groups (Optional) A list of security group ids to associate with.
- subnet_id (Optional) The id of a VPC subnetwork. If you want to create instances in VPC network, this parameter must be set.
- system_disk_id (Optional) System disk snapshot ID used to initialize
 the system disk. When system disk type is LOCAL_BASIC and LOCAL_SSD,
 disk id is not supported.
- system_disk_size (Optional) Size of the system disk. Value range: [50, 1000], and unit is GB. Default is 50GB.
- system_disk_type (Optional, ForceNew) Type of the system disk.
 Valid values are LOCAL_BASIC, LOCAL_SSD, CLOUD_BASIC, CLOUD_SSD and CLOUD_PREMIUM, default value is CLOUD_BASIC. NOTE: LOCAL_BASIC and LOCAL_SSD are deprecated.
- tags (Optional) A mapping of tags to assign to the resource. For tag limits, please refer to Use Limits.
- user_data_raw (Optional, ForceNew) The user data to be specified into this instance, plain text. Conflicts with user_data. Limited in 16 KB after encrypted in base64 format.
- user_data (Optional, ForceNew) The user data to be specified into this instance. Must be encrypted in base64 format and limited in 16 KB.
- vpc_id (Optional) The id of a VPC network. If you want to create instances in VPC network, this parameter must be set.

The data_disks object supports the following:

- data_disk_size (Required) Size of the system disk. Value range: [50, 16000], and unit is GB.
- data_disk_type (Required) Type of the data disk. Valid values are LOCAL_BASIC, LOCAL_SSD, CLOUD_BASIC, CLOUD_SSD and CLOUD_PREMIUM. NOTE: LOCAL_BASIC and LOCAL_SSD are deprecated.
- data_disk_id (Optional) Data disk snapshot ID used to initialize the data disk. When data disk type is LOCAL_BASIC and LOCAL_SSD, disk id is not supported.
- delete_with_instance (Optional) Decides whether the disk is deleted with instance(only applied to cloud disk), default to true.

» Attributes Reference

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

- create_time Create time of the instance.
- \bullet $\mbox{\tt expired_time}$ $\mbox{\tt Expired}$ time of the instance.
- instance_status Current status of the instance.
- public ip Public ip of the instance.

» Import

CVM instance can be imported using the id, e.g. terraform import tencentcloud_instance.foo ins-2qol3a80

» tencentcloud_eip

Provides an EIP resource.

» Example Usage

```
Basic Usage
resource "tencentcloud_eip" "foo" {
  name = "awesome_gateway_ip"
}
```

» Argument Reference

The following arguments are supported:

• name - (Optional) The eip's name.

» Attributes Reference

The following attributes are exported:

- id The EIP id, something like eip-xxxxxxx, use this for EIP assocication.
- public_ip The elastic ip address.
- status The EIP current status.

» Import

EIPs can be imported using the id, e.g. terraform import tencentcloud_eip.foo eip-nyvf60va

» tencentcloud_eip_association

Provides an eip resource associated with other resource like CVM or ENI.

NOTE: Please DO NOT define allocate_public_ip in tencentcloud_instance resource when using tencentcloud_eip_association.

» Example Usage

```
Basic Usage
resource "tencentcloud_eip_association" "foo" {
  eip_id = "eip-xxxxxx"
  instance_id = "ins-xxxxxx"
}
or
resource "tencentcloud_eip_association" "bar" {
  eip_id = "eip-xxxxxx"
  network_interface_id = "eni-xxxxxx"
  private_ip = "10.0.1.22"
}
```

» Argument Reference

The following arguments are supported:

- eip_id (Required) The eip's id.
- instance_id (Optional) The instance id going to bind with the EIP. This field is conflict with network_interface_id and private_ip fields.
- network_interface_id (Optional) Indicates the network interface id like eni-xxxxxx. This field is conflict with instance id.
- private_ip (Optional) Indicates an IP belongs to the network_interface_id.

 This field is conflict with instance_id.

» Attributes Reference

The following attributes are exported:

- id The association id.
- eip_id The id of the EIP.
- instance_id The instance id of the EIP bound with.
- network_interface_id The network interface id.
- private_ip (Optional) The IP belongs to the network_interface_id.

» tencentcloud_key_pair

Provides a key pair resource.

» Example Usage

```
Basic Usage
resource "tencentcloud_key_pair" "foo" {
  key_name = "from_terraform_public_key"
  public_key = "ssh-rsa AAAAB3NzaSuperLongString foo@bar"
}
```

» Argument Reference

The following arguments are supported:

- key_name (Force new resource) The key pair's name. It is the only in one TencentCloud account.
- public_key (Force new resource) You can import an existing public key and using TencentCloud key pair to manage it.

» Attributes Reference

• id - The id of the key pair, something like skey-xxxxxxx, use this for instance creation and resetting.

» Import

Key pairs can be imported using the id, e.g.

terraform import tencentcloud_key_pair.foo skey-17634f05

» tencentcloud_dcx

Provides a resource to creating dedicated tunnels instances.

NOTE: 1. ID of the DC is queried, can only apply for this resource offline.

» Example Usage

```
variable "dc id" {
 default = "dc-kax48sg7"
variable "dcg_id" {
 default = "dcg-dmbhf7jf"
variable "vpc_id" {
 default = "vpc-4h9v4mo3"
}
resource "tencentcloud_dcx" "bgp_main" {
 bandwidth = 900
 dc_id = "${var.dc_id}"
            = "${var.dcg_id}"
 dcg_id
          = "bgp_main"
 name
 network_type = "VPC"
 route_type = "BGP"
            = 306
 vlan
           = "${var.vpc_id}"
 vpc_id
resource "tencentcloud_dcx" "static_main" {
                      = 900
 bandwidth
                       = "${var.dc_id}"
 dc_id
                     = "${var.dcg_id}"
 dcg_id
                       = "static_main"
 name
 network_type
                       = "VPC"
                       = "STATIC"
 route_type
 vlan
                       = 301
                      = "${var.vpc_id}"
 vpc_id
 route_filter_prefixes = ["10.10.10.101/32"]
 tencent_address = "100.93.46.1/30"
customer_address = "100.93.46.2/30"
}
```

» Argument Reference

The following arguments are supported:

• dc_id - (Required, ForceNew) ID of the DC to be queried, application deployment offline.

- dcg_id (Required, ForceNew) ID of the DC Gateway. Currently only new in the console.
- name (Required) Name of the dedicated tunnel.
- vpc_id (Required, ForceNew) ID of the VPC or BMVPC.
- bandwidth (Optional, ForceNew) Bandwidth of the DC.
- bgp_asn (Optional, ForceNew) BGP ASN of the user. A required field within BGP.
- bgp_auth_key (Optional, ForceNew) BGP key of the user.
- customer_address (Optional, ForceNew) Interconnect IP of the DC within client.
- network_type (Optional, ForceNew) Type of the network, and available values include VPC, BMVPC and CCN. The default value is VPC.
- route_filter_prefixes (Optional, ForceNew) Static route, the network address of the user IDC. It can be modified after setting but cannot be deleted. AN unable field within BGP.
- route_type (Optional, ForceNew) Type of the route, and available values include BGP and STATIC. The default value is BGP.
- tencent_address (Optional, ForceNew) Interconnect IP of the DC within Tencent.
- vlan (Optional, ForceNew) Vlan of the dedicated tunnels, and the range of values is [0-3000]. '0' means that only one tunnel can be created for the physical connect.

» Attributes Reference

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

- create time Creation time of resource.
- state State of the dedicated tunnels, and available values include PENDING, ALLOCATING, ALLOCATED, ALTERING, DELETING, DELETED, COMFIRMING and REJECTED.

» tencentcloud_dc_gateway

Provides a resource to creating direct connect gateway instance.

The following arguments are supported:

- name (Required) Name of the DCG.
- network_instance_id (Required, ForceNew) If the 'network_type' value is 'VPC', the available value is VPC ID. But when the 'network_type' value is 'CCN', the available value is CCN instance ID.
- network_type (Required, ForceNew) Type of associated network, the available value include 'VPC' and 'CCN'.
- gateway_type (Optional, ForceNew) Type of the gateway, the available value include 'NORMAL' and 'NAT'. Default is 'NORMAL' NOTES: CCN only supports 'NORMAL' and a vpc can create two DCGs, the one is NAT type and the other is non-NAT type.

» Attributes Reference

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

- cnn_route_type Type of CCN route, the available value include 'BGP' and 'STATIC'. The property is available when the DCG type is CCN gateway and BGP enabled.
- create_time Creation time of resource.
- enable_bgp Indicates whether the BGP is enabled.

» Import

Direct connect gateway instance can be imported, e.g.

\$ terraform import tencentcloud_dc_gateway.instance dcg-id

» tencentcloud_dc_gateway_ccn_route

Provides a resource to creating direct connect gateway route entry.

» Example Usage

```
resource "tencentcloud_ccn" "main" {
         = "ci-temp-test-ccn"
 description = "ci-temp-test-ccn-des"
           = "AG"
 qos
}
resource "tencentcloud_dc_gateway" "ccn_main" {
                    = "ci-cdg-ccn-test"
 network_instance_id = "${tencentcloud_ccn.main.id}"
                    = "CCN"
 network_type
                    = "NORMAL"
  gateway_type
}
resource "tencentcloud_dc_gateway_ccn_route" "route1" {
           = "${tencentcloud_dc_gateway.ccn_main.id}"
 cidr_block = "10.1.1.0/32"
resource "tencentcloud_dc_gateway_ccn_route" "route2" {
 dcg_id = "${tencentcloud_dc_gateway.ccn_main.id}"
 cidr_block = "192.1.1.0/32"
```

» Argument Reference

The following arguments are supported:

- cidr_block (Required, ForceNew) A network address segment of IDC.
- dcg_id (Required, ForceNew) ID of the DCG

» Attributes Reference

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

• as_path - As_Path list of the BGP.

» tencentcloud_gaap_proxy

Provides a resource to create a GAAP proxy.

» Example Usage

» Argument Reference

The following arguments are supported:

- access_region (Required, ForceNew) Access region of the GAAP proxy. The available values include NorthChina, EastChina, SouthChina, SouthWestChina, Hongkong, SL_TAIWAN, SoutheastAsia, Korea, SL_India, SL_Australia, Europe, SL_UK, SL_SouthAmerica, NorthAmerica, SL_MiddleUSA, Canada, SL_VIET, WestIndia, Thailand, Virginia, Russia, Japan, SL_Indonesia
- bandwidth (Required) Maximum bandwidth of the GAAP proxy, unit is Mbps. The available values include 10,20,50,100,200,500,1000.
- concurrent (Required) Maximum concurrency of the GAAP proxy, unit is 10k. The available values include 2,5,10,20,30,40,50,60,70,80,90,100.
- name (Required) Name of the GAAP proxy, the maximum length is 30.
- realserver_region (Required, ForceNew) Region of the GAAP realserver. The available values include NorthChina, EastChina, SouthChina, SouthWestChina, Hongkong, SL_TAIWAN, SoutheastAsia, Korea, SL_India, SL_Australia, Europe, SL_UK, SL_SouthAmerica, NorthAmerica, SL_MiddleUSA, Canada, SL_VIET, WestIndia, Thailand, Virginia, Russia, Japan, SL_Indonesia
- enable (Optional) Indicates whether GAAP proxy is enabled, default is true.
- project_id (Optional) ID of the project within the GAAP proxy, '0' means is Default Project.
- tags (Optional) Tags of the GAAP proxy.

» Attributes Reference

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

- create_time Creation time of the GAAP proxy.
- domain Access domain of the GAAP proxy.
- forward_ip Forwarding IP of the GAAP proxy.
- ip Access IP of the GAAP proxy.
- scalable Indicates whether GAAP proxy can scalable.
- status Status of the GAAP proxy.
- support_protocols Supported protocols of the GAAP proxy.

» Import

GAAP proxy can be imported using the id, e.g.

\$ terraform import tencentcloud_gaap_proxy.foo link-11112222

» tencentcloud_gaap_realserver

Provides a resource to create a GAAP realserver.

» Example Usage

```
resource "tencentcloud_gaap_realserver" "foo" {
  ip = "1.1.1.1"
  name = "ci-test-gaap-realserver"

  tags = {
    test = "test"
  }
}
```

» Argument Reference

- name (Required) Name of the GAAP realserver, the maximum length is 30.
- domain (Optional, ForceNew) Domain of the GAAP realserver, conflict with ip.
- ip (Optional, ForceNew) IP of the GAAP realserver, conflict with domain.
- project_id (Optional, ForceNew) ID of the project within the GAAP realserver, '0' means is Default Project.
- tags (Optional) Tags of the GAAP realserver.

» Import

GAAP realserver can be imported using the id, e.g.

\$ terraform import tencentcloud_gaap_realserver.foo rs-4ftghy6

» tencentcloud_gaap_layer4_listener

Provides a resource to create a layer4 listener of GAAP.

```
resource "tencentcloud_gaap_proxy" "foo" {
                  = "ci-test-gaap-proxy"
 bandwidth
                   = 10
 concurrent
                  = 2
 access_region = "SouthChina"
 realserver_region = "NorthChina"
}
resource "tencentcloud_gaap_realserver" "foo" {
 ip = "1.1.1.1"
 name = "ci-test-gaap-realserver"
resource "tencentcloud_gaap_realserver" "bar" {
     = "119.29.29.29"
 name = "ci-test-gaap-realserver2"
}
resource "tencentcloud_gaap_layer4_listener" "foo" {
                 = "TCP"
 protocol
                 = "ci-test-gaap-4-listener"
 name
 port
                 = 80
 realserver_type = "IP"
                 = "${tencentcloud_gaap_proxy.foo.id}"
 proxy_id
 health_check
                 = true
 realserver_bind_set {
   id = "${tencentcloud_gaap_realserver.foo.id}"
   ip = "${tencentcloud_gaap_realserver.foo.ip}"
   port = 80
 }
```

```
realserver_bind_set {
  id = "${tencentcloud_gaap_realserver.bar.id}"
  ip = "${tencentcloud_gaap_realserver.bar.ip}"
  port = 80
}
```

The following arguments are supported:

- name (Required) Name of the layer4 listener, the maximum length is 30.
- port (Required, ForceNew) Port of the layer4 listener.
- protocol (Required, ForceNew) Protocol of the layer4 listener, and the available values include TCP and UDP.
- proxy_id (Required, ForceNew) ID of the GAAP proxy.
- realserver_type (Required, ForceNew) Type of the realserver, and the available values include IP,DOMAIN. NOTES: when the protocol is specified as TCP and the scheduler is specified as wrr, the item can only be set to IP.
- connect_timeout (Optional) Timeout of the health check response, should less than interval, default is 2s. NOTES: Only supports listeners of TCP protocol and require less than interval.
- health_check (Optional) Indicates whether health check is enable, default is false. NOTES: Only supports listeners of TCP protocol.
- interval (Optional) Interval of the health check, default is 5s. NOTES: Only supports listeners of TCP protocol.
- realserver_bind_set (Optional) An information list of GAAP realserver. Each element contains the following attributes:
- scheduler (Optional) Scheduling policy of the layer4 listener, default is rr. Available values include rr,wrr and lc.

The realserver_bind_set object supports the following:

- id (Required) ID of the GAAP realserver.
- ip (Required) IP of the GAAP realserver.
- port (Required) Port of the GAAP realserver.
- weight (Optional) Scheduling weight, default is 1. The range of values is [1,100].

» Attributes Reference

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

- create time Creation time of the layer4 listener.
- status Status of the layer4 listener.

» tencentcloud_gaap_layer7_listener

Provides a resource to create a layer7 listener of GAAP.

» Example Usage

```
resource "tencentcloud_gaap_proxy" "foo" {
                    = "ci-test-gaap-proxy"
 bandwidth
                    = 10
  concurrent
                    = "SouthChina"
 access region
 realserver region = "NorthChina"
}
resource "tencentcloud_gaap_layer7_listener" "foo" {
 protocol = "HTTP"
           = "ci-test-gaap-17-listener"
 name
 port
 proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
}
```

» Argument Reference

- name (Required) Name of the layer7 listener, the maximum length is 30.
- port (Required, ForceNew) Port of the layer7 listener.
- protocol (Required, ForceNew) Protocol of the layer7 listener, and the available values include HTTP and HTTPS.
- proxy_id (Required, ForceNew) ID of the GAAP proxy.
- auth_type (Optional, ForceNew) Authentication type of the layer7 listener. 0 is one-way authentication and 1 is mutual authentication. NOTES: Only supports listeners of HTTPS protocol.
- certificate_id (Optional) Certificate ID of the layer7 listener.
 NOTES: Only supports listeners of HTTPS protocol.
- client_certificate_id (Optional) ID of the client certificate. Set only when auth_type is specified as mutual authentication. NOTES: Only supports listeners of HTTPS protocol.
- forward_protocol (Optional, ForceNew) Protocol type of the forwarding, the available values include HTTP and HTTPS. NOTES: Only supports listeners of HTTPS protocol.

» Attributes Reference

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

- create_time Creation time of the layer7 listener.
- status Status of the layer7 listener.

» tencentcloud_gaap_http_domain

Provides a resource to create a forward domain of layer7 listener.

» Example Usage

```
resource "tencentcloud_gaap_proxy" "foo" {
 name
                    = "ci-test-gaap-proxy"
                    = 10
 bandwidth
                    = 2
  concurrent
                    = "SouthChina"
  access region
 realserver_region = "NorthChina"
}
resource "tencentcloud_gaap_layer7_listener" "foo" {
 protocol = "HTTP"
          = "ci-test-gaap-17-listener"
           = 80
 port
 proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
}
resource "tencentcloud_gaap_http_domain" "foo" {
  listener_id = "${tencentcloud_gaap_layer7_listener.foo.id}"
             = "www.qq.com"
  domain
}
```

» Argument Reference

- domain (Required, ForceNew) Forward domain of the layer7 listener.
- listener_id (Required, ForceNew) ID of the layer7 listener.
- basic_auth_id (Optional) ID of the basic authentication.
- basic_auth (Optional) Indicates whether basic authentication is enable, default is false.

- certificate_id (Optional) ID of the server certificate, default value is default.
- client_certificate_id (Optional) ID of the client certificate, default value is default.
- gaap_auth_id (Optional) ID of the SSL certificate.
- gaap_auth (Optional) Indicates whether SSL certificate authentication is enable, default is false.
- realserver_auth (Optional) Indicates whether realserver authentication is enable, default is false.
- realserver_certificate_domain (Optional) CA certificate domain of the realserver.
- realserver_certificate_id (Optional) CA certificate ID of the realserver.

» tencentcloud_gaap_http_rule

Provides a resource to create a forward rule of layer7 listener.

```
resource "tencentcloud_gaap_proxy" "foo" {
  name
                   = "ci-test-gaap-proxy"
                   = 10
 bandwidth
  concurrent
                   = 2
                  = "SouthChina"
  access_region
 realserver_region = "NorthChina"
}
resource "tencentcloud_gaap_layer7_listener" "foo" {
 protocol = "HTTP"
        = "ci-test-gaap-17-listener"
          = 80
 port
 proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
resource "tencentcloud_gaap_realserver" "foo" {
      = "1.1.1.1"
 name = "ci-test-gaap-realserver"
}
resource "tencentcloud_gaap_realserver" "bar" {
  ip = "8.8.8.8"
 name = "ci-test-gaap-realserver"
```

```
}
resource "tencentcloud_gaap_http_domain" "foo" {
  listener_id = "${tencentcloud_gaap_layer7_listener.foo.id}"
              = "www.qq.com"
}
resource "tencentcloud_gaap_http_rule" "foo" {
                            = "${tencentcloud_gaap_layer7_listener.foo.id}"
  listener id
 domain
                            = "${tencentcloud_gaap_http_domain.foo.domain}"
                            = "/"
 path
                            = "IP"
 realserver_type
 health_check
                            = true
                            = "/"
 health check path
 health_check_method
                            = "GET"
 health check status codes = [200]
 realservers {
       = "${tencentcloud_gaap_realserver.foo.id}"
         = "${tencentcloud_gaap_realserver.foo.ip}"
   port = 80
  }
  realservers {
        = "${tencentcloud_gaap_realserver.bar.id}"
         = "${tencentcloud gaap realserver.bar.ip}"
   port = 80
}
```

- domain (Required, ForceNew) Forward rule domain of the layer7 listener.
- health_check (Required) Indicates whether health check is enable.
- listener_id (Required, ForceNew) ID of the layer7 listener.
- path (Required) Path of the forward rule. Maximum length is 80.
- realserver_type (Required, ForceNew) Type of the realserver, and the available values include IP,DOMAIN.
- realservers (Required) An information list of GAAP realserver. Each element contains the following attributes:
- connect_timeout (Optional) Timeout of the health check response, default is 2s.
- health check method (Optional) Method of the health check. Available

values includes GET and HEAD.

- health_check_path (Optional) Path of health check. Maximum length is 80.
- health_check_status_codes (Optional) Return code of confirmed normal. Available values includes 100,200,300,400 and 500.
- interval (Optional) Interval of the health check, default is 5s.
- scheduler (Optional) Scheduling policy of the layer4 listener, default is rr. Available values include rr,wrr and lc.

The realservers object supports the following:

- id (Required) ID of the GAAP realserver.
- ip (Required) IP of the GAAP realserver.
- port (Required) Port of the GAAP realserver.
- weight (Optional) Scheduling weight, default is 1. The range of values is [1,100].

» tencentcloud_gaap_certificate

Provides a resource to create a certificate of GAAP.

» Example Usage

```
resource "tencentcloud_gaap_certificate" "foo" {
  type = "BASIC"
  content = "test:tx2KGdo3zJg/."
  name = "test_certificate"
}
```

» Argument Reference

- content (Required, ForceNew) Content of the certificate, and URL encoding. When the certificate is basic authentication, use the user:xxx password:xxx format, where the password is encrypted with htpasswd or openssl; When the certificate is CA or SSL, the format is pem.
- type (Required, ForceNew) Type of the certificate. Available values include: BASIC, CLIENT, SERVER, REALSERVER and PROXY; BASIC means basic certificate; CLIENT means client CA certificate; SERVER means server SSL certificate; REALSERVER means realserver CA certificate; PROXY means proxy SSL certificate.
- key (Optional, ForceNew) Key of the CA or SSL certificate.
- name (Optional) Name of the certificate.

» Attributes Reference

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

- begin_time Beginning time of the certificate.
- create_time Creation time of the certificate.
- end_time Ending time of the certificate.
- issuer_cn Issuer name of the certificate.
- subject_cn Subject name of the certificate.

» Import

GAAP certificate can be imported using the id, e.g.

\$ terraform import tencentcloud_gaap_certificate.foo cert-d5y6ei3b

» tencentcloud_gaap_security_policy

Provides a resource to create a security policy of GAAP proxy.

» Example Usage

» Argument Reference

- action (Required, ForceNew) Default policy, the available values includes ACCEPT and DROP.
- proxy_id (Required, ForceNew) ID of the GAAP proxy.
- enable (Optional) Indicates whether policy is enable, default is true.

» Import

GAAP security policy can be imported using the id, e.g.

\$ terraform import tencentcloud_gaap_security_policy.foo pl-xxxx

» tencentcloud_gaap_security_rule

Provides a resource to create a security policy rule.

» Example Usage

```
resource "tencentcloud_gaap_proxy" "foo" {
                   = "ci-test-gaap-proxy"
 bandwidth
                   = 10
  concurrent
                   = 2
                   = "SouthChina"
 access_region
  realserver_region = "NorthChina"
}
resource "tencentcloud_gaap_security_policy" "foo" {
 proxy_id = "${tencentcloud_gaap_proxy.foo.id}"
  action = "ACCEPT"
resource "tencentcloud_gaap_security_rule" "foo" {
 policy_id = "${tencentcloud_gaap_security_policy.foo.id}"
          = "1.1.1.1"
 cidr_ip
          = "ACCEPT"
 action
 protocol = "TCP"
}
```

» Argument Reference

- action (Required, ForceNew) Policy of the rule, the available values includes ACCEPT and DROP.
- cidr_ip (Required, ForceNew) A network address block of the request source.
- policy_id (Required, ForceNew) ID of the security policy.
- name (Optional) Name of the security policy rule. Maximum length is 30.

- port (Optional, ForceNew) Target port. Available values includes 80,80,443,3306-20000.
- protocol (Optional, ForceNew) Protocol of the security policy rule. Default is ALL, the available values includes TCP,UDP and ALL.

» tencentcloud kubernetes cluster

Provide a resource to create a kubernetes cluster.

```
variable "availability_zone" {
 default = "ap-guangzhou-3"
variable "vpc" {
 default = "vpc-dk8zmwuf"
variable "subnet" {
 default = "subnet-pqfek0t8"
variable "default_instance_type" {
 default = "SA1.LARGE8"
#examples for MANAGED_CLUSTER cluster
resource "tencentcloud_kubernetes_cluster" "managed_cluster" {
                         = "${var.vpc}"
 vpc_id
                         = "10.1.0.0/16"
 cluster cidr
 cluster_max_pod_num
                        = 32
 cluster_name
cluster_desc
                         = "test"
                        = "test cluster desc"
 cluster_max_service_num = 32
 worker_config {
   count
                              = 2
                              = "${var.availability_zone}"
   availability_zone
                              = "${var.default_instance_type}"
   instance_type
                              = "CLOUD_SSD"
   system_disk_type
   system_disk_size
                              = 60
    internet_charge_type
                              = "TRAFFIC_POSTPAID_BY_HOUR"
```

```
internet_max_bandwidth_out = 100
    public_ip_assigned = true
    subnet_id
                              = "${var.subnet}"
    data_disk {
      disk_type = "CLOUD_PREMIUM"
      disk_size = 50
    }
    enhanced_security_service = false
    enhanced_monitor_service = false
    user_data
                            = "dGVzdA=="
                            = "ZZXXccvv1212"
   password
 }
  cluster_deploy_type = "MANAGED_CLUSTER"
#examples for INDEPENDENT_CLUSTER cluster
resource "tencentcloud_kubernetes_cluster" "independing_cluster" {
                       = "${var.vpc}"
  vpc_id
  cluster_cidr
                        = "10.1.0.0/16"
  cluster_max_pod_num = 32
 cluster_name
                        = "test"
                    = "test cluster desc"
  cluster_desc
  cluster_max_service_num = 32
 master_config {
                              = 3
    count
                          = "${var.availability_zone}"
= "${var.default_instance_type}"
   availability_zone
   instance_type
                           = "CLOUD_SSD"
   system_disk_type
   system_disk_size = 60
internet_charge_type = "TRAFFIC_POSTPAID_BY_HOUR"
    internet_max_bandwidth_out = 100
    public_ip_assigned = true
    subnet_id
                              = "${var.subnet}"
    data_disk {
      disk_type = "CLOUD_PREMIUM"
      disk_size = 50
    enhanced_security_service = false
    enhanced_monitor_service = false
                             = "dGVzdA=="
    user_data
```

```
password
                              = "MMMZZXXccvv1212"
  worker_config {
    count
                               = "${var.availability_zone}"
    availability_zone
                               = "${var.default_instance_type}"
    instance_type
                               = "CLOUD_SSD"
    system_disk_type
    system_disk_size
    internet_charge_type
                               = "TRAFFIC POSTPAID BY HOUR"
    internet_max_bandwidth_out = 100
    public_ip_assigned
                               = true
                               = "${var.subnet}"
    subnet_id
    data_disk {
      disk type = "CLOUD PREMIUM"
      disk_size = 50
    enhanced_security_service = false
    enhanced_monitor_service = false
    user_data
                              = "dGVzdA=="
                              = "ZZXXccvv1212"
   password
  cluster_deploy_type = "INDEPENDENT_CLUSTER"
}
```

- cluster_cidr (Required, ForceNew) A network address block of the cluster. Different from vpc cidr and cidr of other clusters within this vpc. Must be in 10./192.168/172.[16-31] segments.
- vpc_id (Required, ForceNew) Vpc Id of the cluster.
- cluster_deploy_type (Optional, ForceNew) Deployment type of the cluster, the available values include: 'MANAGED_CLUSTER' and 'IN-DEPENDENT_CLUSTER', Default is 'MANAGED_CLUSTER'.
- cluster_desc (Optional, ForceNew) Description of the cluster.
- cluster_ipvs (Optional, ForceNew) Indicates whether ipvs is enabled. Default is true.
- cluster_max_pod_num (Optional, ForceNew) The maximum number of Pods per node in the cluster. Default is 256. Must be a multiple of 16 and large than 32.

- cluster_max_service_num (Optional, ForceNew) The maximum number of services in the cluster. Default is 256. Must be a multiple of 16.
- cluster_name (Optional, ForceNew) Name of the cluster.
- cluster_os (Optional, ForceNew) Operating system of the cluster, the available values include: 'centos7.2x86_64' and 'ubuntu16.04.1 LTSx86_64'. Default is 'ubuntu16.04.1 LTSx86_64'.
- cluster_version (Optional, ForceNew) Version of the cluster, Default is '1.10.5'.
- container_runtime (Optional, ForceNew) Runtime type of the cluster, the available values include: 'docker' and 'containerd'. Default is 'docker'.
- ignore_cluster_cidr_conflict (Optional, ForceNew) Indicates whether to ignore the cluster cidr conflict error. Default is false.
- master_config (Optional, ForceNew) Deploy the machine configuration information of the 'MASTER_ETCD' service, and create <=7 units for common users.
- project_id (Optional, ForceNew) Project ID, default value is 0.
- worker_config (Optional, ForceNew) Deploy the machine configuration information of the 'WORKER' service, and create <=20 units for common users. The other 'WORK' service are added by 'tencentcloud kubernetes worker'.

The master_config object supports the following:

- instance_type (Required, ForceNew) Specified types of CVM instance.
- subnet_id (Required, ForceNew) Private network ID.
- availability_zone (Optional, ForceNew) Indicates which availability zone will be used.
- count (Optional, ForceNew) Number of cvm.
- data_disk (Optional, ForceNew) Configurations of data disk.
- enhanced_monitor_service (Optional, ForceNew) To specify whether to enable cloud monitor service. Default is TRUE.
- enhanced_security_service (Optional, ForceNew) To specify whether to enable cloud security service. Default is TRUE.
- instance name (Optional, ForceNew) Name of the CVMs.
- internet_charge_type (Optional, ForceNew) Charge types for network traffic. Available values include TRAFFIC POSTPAID BY HOUR.
- internet_max_bandwidth_out (Optional, ForceNew) Max bandwidth of Internet access in Mbps. Default is 0.
- key_ids (Optional, ForceNew) ID list of keys.
- password (Optional, ForceNew) Password to access.
- public_ip_assigned (Optional, ForceNew) Specify whether to assign an Internet IP address.
- security_group_ids (Optional, ForceNew) Security groups to which a CVM instance belongs.
- system_disk_size (Optional, ForceNew) Volume of system disk in GB. Default is 50.
- system_disk_type (Optional, ForceNew) Type of a CVM disk, and

- available values include CLOUD_PREMIUM and CLOUD_SSD. Default is CLOUD_PREMIUM
- user_data (Optional, ForceNew) ase64-encoded User Data text, the length limit is 16KB.

The data_disk object supports the following:

- disk_size (Optional, ForceNew) Volume of disk in GB. Default is 0.
- disk_type (Optional, ForceNew) Types of disk available values: CLOUD PREMIUM and CLOUD SSD.
- snapshot id (Optional, ForceNew) Data disk snapshot ID.

The worker_config object supports the following:

- instance_type (Required, ForceNew) Specified types of CVM instance.
- subnet id (Required, ForceNew) Private network ID.
- availability_zone (Optional, ForceNew) Indicates which availability zone will be used.
- count (Optional, ForceNew) Number of cvm.
- data_disk (Optional, ForceNew) Configurations of data disk.
- enhanced_monitor_service (Optional, ForceNew) To specify whether to enable cloud monitor service. Default is TRUE.
- enhanced_security_service (Optional, ForceNew) To specify whether to enable cloud security service. Default is TRUE.
- instance_name (Optional, ForceNew) Name of the CVMs.
- internet_charge_type (Optional, ForceNew) Charge types for network traffic. Available values include TRAFFIC POSTPAID BY HOUR.
- internet_max_bandwidth_out (Optional, ForceNew) Max bandwidth of Internet access in Mbps. Default is 0.
- key_ids (Optional, ForceNew) ID list of keys.
- password (Optional, ForceNew) Password to access.
- public_ip_assigned (Optional, ForceNew) Specify whether to assign an Internet IP address.
- security_group_ids (Optional, ForceNew) Security groups to which a CVM instance belongs.
- system_disk_size (Optional, ForceNew) Volume of system disk in GB. Default is 50.
- system_disk_type (Optional, ForceNew) Type of a CVM disk, and available values include CLOUD_PREMIUM and CLOUD_SSD. Default is CLOUD_PREMIUM
- user_data (Optional, ForceNew) ase64-encoded User Data text, the length limit is 16KB.

The data_disk object supports the following:

- disk_size (Optional, ForceNew) Volume of disk in GB. Default is 0.
- disk_type (Optional, ForceNew) Types of disk available values: CLOUD PREMIUM and CLOUD SSD.
- snapshot_id (Optional, ForceNew) Data disk snapshot ID.

» Attributes Reference

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

- cluster_node_num Number of nodes in the cluster.
- worker_instances_list An information list of cvm within the 'WORKER' clusters. Each element contains the following attributes:
 - failed_reason Information of the cvm when it is failed.
 - instance id ID of the cvm
 - instance_role Role of the cvm
 - instance_state State of the cvm

» tencentcloud_kubernetes_scale_worker

Provide a resource to increase instance to cluster

```
variable "availability_zone" {
  default = "ap-guangzhou-3"
}
variable "subnet" {
 default = "subnet-pqfek0t8"
variable "scale_instance_type" {
  default = "S2.LARGE16"
}
resource tencentcloud_kubernetes_scale_worker test_scale {
  cluster_id = "cls-godovr32"
 worker_config {
    count
                              = "${var.availability_zone}"
    availability_zone
                               = "${var.scale_instance_type}"
    instance_type
                              = "${var.subnet}"
    subnet_id
    system_disk_type
                             = "CLOUD SSD"
                             = 50
    system_disk_size
    internet_charge_type
                           = "TRAFFIC POSTPAID BY HOUR"
    internet_max_bandwidth_out = 100
    public_ip_assigned
                               = true
```

The following arguments are supported:

- cluster id (Required, ForceNew) ID of the cluster.
- worker_config (Required, ForceNew) Deploy the machine configuration information of the 'WORK' service, and create <=20 units for common users.

The worker_config object supports the following:

- instance_type (Required, ForceNew) Specified types of CVM instance.
- subnet_id (Required, ForceNew) Private network ID.
- availability_zone (Optional, ForceNew) Indicates which availability zone will be used.
- count (Optional, ForceNew) Number of cvm.
- data disk (Optional, ForceNew) Configurations of data disk.
- enhanced_monitor_service (Optional, ForceNew) To specify whether to enable cloud monitor service. Default is TRUE.
- enhanced_security_service (Optional, ForceNew) To specify whether to enable cloud security service. Default is TRUE.
- instance_name (Optional, ForceNew) Name of the CVMs.
- internet_charge_type (Optional, ForceNew) Charge types for network traffic. Available values include TRAFFIC POSTPAID BY HOUR.
- internet_max_bandwidth_out (Optional, ForceNew) Max bandwidth of Internet access in Mbps. Default is 0.
- key_ids (Optional, ForceNew) ID list of keys.
- password (Optional, ForceNew) Password to access.
- public_ip_assigned (Optional, ForceNew) Specify whether to assign an Internet IP address.
- security_group_ids (Optional, ForceNew) Security groups to which a CVM instance belongs.
- system_disk_size (Optional, ForceNew) Volume of system disk in GB. Default is 50.

- system_disk_type (Optional, ForceNew) Type of a CVM disk, and available values include CLOUD_PREMIUM and CLOUD_SSD. Default is CLOUD_PREMIUM
- user_data (Optional, ForceNew) ase64-encoded User Data text, the length limit is 16KB.

The data_disk object supports the following:

- disk_size (Optional, ForceNew) Volume of disk in GB. Default is 0.
- disk_type (Optional, ForceNew) Types of disk available values: CLOUD_PREMIUM and CLOUD_SSD.
- snapshot_id (Optional, ForceNew) Data disk snapshot ID.

» Attributes Reference

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

- worker_instances_list An information list of kubernetes cluster 'WORKER'. Each element contains the following attributes:
 - failed_reason Information of the cvm when it is failed.
 - $instance_id ID$ of the cvm
 - instance_role Role of the cvm
 - instance_state State of the cvm

» tencentcloud_mongodb_instance

Provide a resource to create a Mongodb instance.

```
resource "tencentcloud_mongodb_instance" "mongodb" {
  instance_name = "mongodb"
 memory
  volume
                = 100
  engine_version = "MONGO_3_WT"
               = "GIO"
 machine_type
  available_zone = "ap-guangzhou-2"
                = "vpc-mz3efvbw"
  vpc_id
  subnet_id
                = "subnet-lk0svi3p"
 project_id
                = 0
                = "mypassword"
 password
```

The following arguments are supported:

- available_zone (Required, ForceNew) The available zone of the Mongodb.
- engine_version (Required, ForceNew) Version of the Mongodb, and available values include MONGO_3_WT, MONGO_3_ROCKS and MONGO_36 WT.
- instance_name (Required) Name of the Mongodb instance.
- machine_type (Required, ForceNew) Type of Mongodb instance, and available values include GIO and TGIO.
- memory (Required) Memory size.
- password (Required) Password of this Mongodb account.
- volume (Required) Disk size.
- project_id (Optional) ID of the project which the instance belongs.
- security_groups (Optional) ID of the security group.
- subnet_id (Optional, ForceNew) ID of the subnet within this VPC. The vaule is required if VpcId is set.
- vpc_id (Optional, ForceNew) ID of the VPC.

» Attributes Reference

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

- create_time Creation time of the Mongodb instance.
- status Status of the Mongodb instance, and available values include pending initialization(expressed with 0), processing(expressed with 1), running(expressed with 2) and expired(expressed with -2)
- vip IP of the Mongodb instance.
- vport IP port of the Mongodb instance.

» Import

Mongodb instance can be imported using the id, e.g.

\$ terraform import tencentcloud_mongodb_instance.mongodb cmgo-41s6jwy4

» tencentcloud_mongodb_sharding_instance

Provide a resource to create a Mongodb sharding instance.

» Example Usage

```
resource "tencentcloud mongodb sharding instance" "mongodb" {
                 = "mongodb"
  instance_name
  shard_quantity = 2
 nodes_per_shard = 3
 memory
  volume
                  = 100
  engine_version = "MONGO_3_WT"
                 = "GIO"
 machine_type
  available_zone = "ap-guangzhou-3"
                 = "vpc-mz3efvbw"
  vpc_id
                 = "subnet-lk0svi3p"
  subnet_id
 project_id
 password
                 = "mypassword"
```

» Argument Reference

The following arguments are supported:

- available_zone (Required, ForceNew) The available zone of the Mongodb.
- engine_version (Required, ForceNew) Version of the Mongodb, and available values include MONGO_3_WT, MONGO_3_ROCKS and MONGO 36 WT.
- instance_name (Required) Name of the Mongodb instance
- machine_type (Required, ForceNew) Type of Mongodb instance, and available values include GIO and TGIO.
- memory (Required) Memory size.
- nodes_per_shard (Required, ForceNew) Number of nodes per shard, at least 3(one master and two slaves).
- password (Required) Password of this Mongodb account.
- shard_quantity (Required, ForceNew) Number of sharding.
- volume (Required) Disk size.
- project_id (Optional) ID of the project which the instance belongs.
- security_groups (Optional) ID of the security group.
- subnet_id (Optional, ForceNew) ID of the subnet within this VPC. The vaule is required if VpcId is set.
- vpc_id (Optional, ForceNew) ID of the VPC.

» Attributes Reference

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

- create_time Creation time of the Mongodb instance.
- status Status of the Mongodb instance, and available values include pending initialization(expressed with 0), processing(expressed with 1), running(expressed with 2) and expired(expressed with -2)
- vip IP of the Mongodb instance.
- vport IP port of the Mongodb instance.

» Import

Mongodb sharding instance can be imported using the id, e.g.

\$ terraform import tencentcloud_mongodb_sharding_instance.mongodb cmgo-41s6jwy4

» tencentcloud mysql instance

Provides a mysql instance resource to create master database instances.

NOTE: If this mysql has readonly instance, the terminate operation of the mysql does NOT take effect immediately maybe takes for several hours. so during that time, VPCs associated with that mysql instance can't be terminated also.

```
resource "tencentcloud_mysql_instance" "default" {
  internet_service = 1
  engine_version = "5.7"
                   = "******
 root_password
 slave_deploy_mode = 0
 first_slave_zone = "ap-guangzhou-4"
 second slave zone = "ap-guangzhou-4"
 slave_sync_mode = 1
 availability_zone = "ap-guangzhou-4"
 project_id
                   = 201901010001
 instance_name
                   = "myTestMysql"
                   = 128000
 mem_size
                   = 250
 volume_size
                   = "vpc-12mt3l31"
 vpc_id
 subnet_id
                   = "subnet-9uivyb1g"
                   = 3306
  intranet_port
  security_groups = ["sg-ot8eclwz"]
```

```
tags = {
   name = "test"
}

parameters = {
   max_connections = "1000"
}
```

- instance_name (Required) The name of a mysql instance.
- mem_size (Required) Memory size (in MB).
- root_password (Required) Password of root account. This parameter
 can be specified when you purchase master instances, but it should be
 ignored when you purchase read-only instances or disaster recovery instances.
- volume_size (Required) Disk size (in GB).
- availability_zone (Optional, ForceNew) Indicates which availability zone will be used.
- engine_version (Optional, ForceNew) The version number of the database engine to use. Supported versions include 5.5/5.6/5.7, and default is 5.7.
- first_slave_zone (Optional, ForceNew) Zone information about first slave instance.
- internet_service (Optional) Indicates whether to enable the access to an instance from public network: 0 No, 1 Yes.
- intranet_port (Optional) Public access port, rang form 1024 to 65535 and default value is 3306.
- parameters (Optional) List of parameters to use.
- project_id (Optional) Project ID, default value is 0.
- second_slave_zone (Optional, ForceNew) Zone information about second slave instance.
- security_groups (Optional) Security groups to use.
- slave_deploy_mode (Optional, ForceNew) Availability zone deployment method. Available values: 0 - Single availability zone; 1 - Multiple availability zones.
- slave_sync_mode (Optional, ForceNew) Data replication mode. 0 Async replication; 1 Semisync replication; 2 Strongsync replication.
- subnet_id (Optional) Private network ID. If vpc_id is set, this value is required.
- tags (Optional) Instance tags.
- vpc id (Optional) ID of VPC, which can be modified once every 24

hours and can't be removed.

» Attributes Reference

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

- gtid Indicates whether GTID is enable. 0 Not enabled; 1 Enabled.
- internet_host host for public access.
- internet_port Access port for public access.
- intranet_ip instance intranet IP.
- locked Indicates whether the instance is locked. 0 No; 1 Yes.
- status Instance status. Available values: 0 Creating; 1 Running; 4 Isolating; 5 Isolated.
- task_status Indicates which kind of operations is being executed.

» tencentcloud_mysql_readonly_instance

Provides a mysql instance resource to create read-only database instances.

NOTE: The terminate operation of read only mysql does NOT take effect immediately maybe takes for several hours. so during that time, VPCs associated with that mysql instance can't be terminated also.

» Example Usage

```
resource "tencentcloud_mysql_readonly_instance" "default" {
 master_instance_id = "cdb-dnqksd9f"
 instance name = "myTestMysql"
                    = 128000
 mem_size
 volume_size
                  = 255
                    = "vpc-12mt3l31"
 vpc_id
 subnet_id
                    = "subnet-9uivyb1g"
                    = 3306
 intranet_port
                    = ["sg-ot8eclwz"]
 security_groups
 tags = {
   name = "test"
}
```

» Argument Reference

- instance_name (Required) The name of a mysql instance.
- master_instance_id (Required, ForceNew) Indicates the master instance ID of recovery instances.
- mem_size (Required) Memory size (in MB).
- volume_size (Required) Disk size (in GB).
- intranet_port (Optional) Public access port, rang form 1024 to 65535 and default value is 3306.
- security_groups (Optional) Security groups to use.
- subnet_id (Optional) Private network ID. If vpc_id is set, this value is required.
- tags (Optional) Instance tags.
- vpc_id (Optional) ID of VPC, which can be modified once every 24 hours and can't be removed.

» Attributes Reference

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

- intranet_ip instance intranet IP.
- locked Indicates whether the instance is locked. 0 No; 1 Yes.
- status Instance status. Available values: 0 Creating; 1 Running; 4 Isolating; 5 Isolated.
- task_status Indicates which kind of operations is being executed.

» tencentcloud_mysql_account

Provides a MySQL account resource for database management. A MySQL instance supports multiple database account.

» Example Usage

```
resource "tencentcloud_mysql_account" "default" {
  mysql_id = "my-test-database"
  name = "tf_account"
  password = "*******"
  description = "My test account"
}
```

» Argument Reference

- mysql_id (Required, ForceNew) Instance ID to which the account belongs.
- name (Required, ForceNew) Account name.
- password (Required) Operation password.
- description (Optional) Database description.

» tencentcloud_mysql_account_privilege

Provides a mysql account privilege resource to grant different access privilege to different database. A database can be granted by multiple account.

» Example Usage

» Argument Reference

The following arguments are supported:

- account_name (Required, ForceNew) Account name.
- database names (Required) List of specified database name.
- mysql_id (Required, ForceNew) Instance ID.
- privileges (Optional) Database permissions. Available values for Privileges: "SELECT", "INSERT", "UPDATE", "DELETE", "CREATE", "DROP", "REFERENCES", "INDEX", "ALTER", "CREATE TEMPORARY TABLES", "LOCK TABLES", "EXECUTE", "CREATE VIEW", "SHOW VIEW", "CREATE ROUTINE", "ALTER ROUTINE", "EVENT", and "TRIGGER".

» tencentcloud mysql backup policy

Provides a mysql policy resource to create a backup policy.

NOTE: This attribute backup_model only support 'physical' in Terraform TencentCloud provider version 1.16.2

» Example Usage

» Argument Reference

The following arguments are supported:

- mysql_id (Required, ForceNew) Instance ID to which policies will be applied.
- backup_model (Optional) Backup method. Supported values include: 'physical' physical backup
- backup_time (Optional) Instance backup time, in the format of "HH:mm-HH:mm". Time setting interval is four hours. Default to "02:00-06:00". The following value can be supported: 02:00-06:00, 06:00-10:00, 10:00-14:00, 14:00-18:00, 18:00-22:00, and 22:00-02:00.
- retention_period (Optional) Instance backup retention days. Valid values: [7-730]. And default value is 7.

» Attributes Reference

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

• binlog_period - Retention period for binlog in days.

» tencentcloud redis instance

Provides a resource to create a Redis instance and set its attributes.

```
resource "tencentcloud_redis_instance" "redis_instance_test" {
  availability_zone = "ap-hongkong-3"
  type = "master_slave_redis"
  password = "test12345789"
  mem_size = 8192
  name = "terrform_test"
```

```
port = 6379
```

The following arguments are supported:

- availability_zone (Required, ForceNew) The available zone ID of an instance to be created., refer to tencentcloud_redis_zone_config.list
- mem_size (Required) The memory volume of an available instance(in MB), refer to tencentcloud redis zone config.list[zone].mem sizes
- password (Required) Password for a Redis user which should be 8 to 16 characters.
- name (Optional) Instance name.
- port (Optional, ForceNew) The port used to access a redis instance. The default value is 6379. And this value can't be changed after creation, or the Redis instance will be recreated.
- project_id (Optional) Specifies which project the instance should belong to.
- security_groups (Optional, ForceNew) ID of security group. If both vpc_id and subnet_id are not set, this argument should not be set either.
- subnet_id (Optional, ForceNew) Specifies which subnet the instance should belong to.
- type (Optional, ForceNew) Instance type. Available values: master_slave_redis.
- vpc_id (Optional, ForceNew) ID of the vpc with which the instance is to be associated.

» Attributes Reference

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

- create_time The time when the instance was created.
- ip IP address of an instance.
- status Current status of an instance maybe: init, processing, online, isolate and todelete.

» Import

Redis instance can be imported, e.g.

\$ terraform import tencentcloud_redis_instance.redislab redis-id

» tencentcloud_redis_backup_config

Use this data source to query which instance types of Redis are available in a specific region.

» Example Usage

```
resource "tencentcloud_redis_backup_config" "redislab" {
  redis_id = "crs-7yl0q0dd"
  backup_time = "04:00-05:00"
  backup_period = ["Monday"]
}
```

» Argument Reference

The following arguments are supported:

- backup_period (Required) Specifys which day the backup action should take place. Supported values include: Monday Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.
- backup_time (Required) Specifys what time the backup action should take place.
- redis_id (Required, ForceNew) ID of a Redis instance to which the policy will be applied.

» Import

Redis backup config can be imported, e.g.

```
$ terraform import tencentcloud redis backup config.redisconfig redis-id
```

» tencentcloud_vpc

Provide a resource to create a VPC.

```
is_multicast = false
}
```

The following arguments are supported:

- cidr_block (Required, ForceNew) A network address block which should be a subnet of the three internal network segments (10.0.0.0/16, 172.16.0.0/12 and 192.168.0.0/16).
- name (Required) The name of the VPC.
- dns_servers (Optional) The DNS server list of the VPC. And you can specify 0 to 5 servers to this list.
- is_multicast (Optional) Indicates whether VPC multicast is enabled. The default value is 'true'.

» Attributes Reference

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

- create_time Creation time of VPC.
- is_default Indicates whether it is the default VPC for this region.

» Import

Vpc instance can be imported, e.g.

```
$ terraform import tencentcloud_vpc.test vpc-id
```

» tencentcloud_subnet

Provide a resource to create a VPC subnet.

```
variable "availability_zone" {
  default = "ap-guangzhou-3"
}

resource "tencentcloud_vpc" "foo" {
  name = "guagua-ci-temp-test"
  cidr_block = "10.0.0.0/16"
```

```
resource "tencentcloud_subnet" "subnet" {
  availability_zone = "${var.availability_zone}"
  name = "guagua-ci-temp-test"
  vpc_id = "${tencentcloud_vpc.foo.id}"
  cidr_block = "10.0.20.0/28"
  is_multicast = false
}
```

The following arguments are supported:

- availability_zone (Required, ForceNew) The availability zone within which the subnet should be created.
- cidr_block (Required, ForceNew) A network address block of the subnet.
- name (Required) The name of subnet to be created.
- vpc_id (Required, ForceNew) ID of the VPC to be associated.
- is_multicast (Optional) Indicates whether multicast is enabled. The default value is 'true'.
- route_table_id (Optional) ID of a routing table to which the subnet should be associated.

» Attributes Reference

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

- available_ip_count The number of available IPs.
- create_time Creation time of subnet resource.
- is_default Indicates whether it is the default VPC for this region.

» Import

Vpc subnet instance can be imported, e.g.

\$ terraform import tencentcloud_subnet.test subnet_id

» tencentcloud_security_group

Provides a resource to create security group.

» Example Usage

» Argument Reference

The following arguments are supported:

- name (Required) Name of the security group to be queried.
- description (Optional) Description of the security group.
- project_id (Optional, ForceNew) Project ID of the security group.

» Import

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

\$ terraform import tencentcloud_security_group.sglab sg-ey3wmiz1

» tencentcloud_security_group_rule

Provides a resource to create security group rule.

```
Source is CIDR ip
resource "tencentcloud_security_group" "sglab_1" {
          = "mysg_1"
 description = "favourite sg_1"
 project_id = 0
}
resource "tencentcloud_security_group_rule" "sglab_1" {
 security_group_id = "${tencentcloud_security_group.sglab_1.id}"
                   = "ingress"
 type
 cidr_ip
                  = "10.0.0.0/16"
                  = "TCP"
 ip_protocol
                   = "80"
 port_range
                   = "ACCEPT"
 policy
```

```
description
                    = "favourite sg rule_1"
Source is a security group id
resource "tencentcloud_security_group" "sglab_2" {
              = "mysg_2"
  description = "favourite sg_2"
 project_id = 0
resource "tencentcloud_security_group" "sglab_3" {
         = "mysg_3"
 description = "favourite sg_3"
 project id = 0
}
resource "tencentcloud_security_group_rule" "sglab_2" {
  security_group_id = "${tencentcloud_security_group.sglab_2.id}"
                   = "ingress"
  type
                    = "TCP"
  ip_protocol
                   = "80"
 port_range
                   = "ACCEPT"
 policy
                  = "${tencentcloud_security_group.sglab_3.id}"
 source_sgid
                    = "favourite sg rule_2"
  description
}
```

- policy (Required, ForceNew) Rule policy of security group, the available value include ACCEPT and DROP.
- security_group_id (Required, ForceNew) ID of the security group to be queried.
- type (Required, ForceNew) Type of the security group rule, the available value include ingress and egress.
- cidr_ip (Optional, ForceNew) An IP address network or segment, and conflict with source_sgid.
- description (Optional, ForceNew) Description of the security group rule.
- ip_protocol (Optional, ForceNew) Type of ip protocol, the available value include TCP, UDP and ICMP. Default to all types protocol.
- port_range (Optional, ForceNew) Range of the port. The available value can be one, multiple or one segment. E.g. 80, 80,90 and 80-90. Default to all ports.

• source_sgid - (Optional, ForceNew) ID of the nested security group, and conflict with cidr_ip.

» tencentcloud route table

Provides a resource to create a VPC routing table.

» Example Usage

» Argument Reference

The following arguments are supported:

- name (Required) The name of routing table.
- vpc_id (Required, ForceNew) ID of VPC to which the route table should be associated.

» Attributes Reference

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

- create_time Creation time of the routing table.
- is_default Indicates whether it is the default routing table.
- route_entry_ids ID list of the routing entries.
- subnet_ids ID list of the subnets associated with this route table.

» Import

Vpc routetable instance can be imported, e.g.

\$ terraform import tencentcloud_route_table.test route_table_id

» tencentcloud_route_entry

Provides a resource to create a routing entry in a VPC routing table.

NOTE: It has been deprecated and replaced by tencentcloud_route_table_entry.

» Example Usage

```
Basic usage:
resource "tencentcloud_vpc" "main" {
 name = "Used to test the routing entry"
 cidr block = "10.4.0.0/16"
}
resource "tencentcloud_route_table" "r" {
 name = "Used to test the routing entry"
 vpc id = "${tencent vpc.main.id}"
resource "tencentcloud_route_entry" "rtb_entry_instance" {
 vpc_id
          = "${tencentcloud_route_table.main.vpc_id}"
 route_table_id = "${tencentcloud_route_table.r.id}"
 cidr_block = "10.4.8.0/24"
 next_type = "instance"
next_hub = "10.16.1.7
 next_hub
                = "10.16.1.7"
}
resource "tencentcloud_route_entry" "rtb_entry_instance" {
          = "${tencentcloud route table.main.vpc id}"
 route_table_id = "${tencentcloud_route_table.r.id}"
 cidr_block = "10.4.5.0/24"
 next_type
              = "vpn_gateway"
 next_hub
              = "vpngw-db52irtl"
}
```

» Argument Reference

- vpc_id (Required, Forces new resource) The VPC ID.
- route_table_id (Required, Forces new resource) The ID of the route table.
- cidr_block (Required, Forces new resource) The RouteEntry's target network segment.

- next_type (Required, Forces new resource) The next hop type. Available
 value is public_gateway vpn_gateway sslvpn_gateway dc_gateway peering_connection nat_gateway
 and instance. instance points to CVM Instance.
- next_hub (Required, Forces new resource) The route entry's next hub. CVM instance ID or VPC router interface ID.

» Attributes Reference

The following attributes are exported:

- route_table_id The ID of the route table.
- cidr_block The RouteEntry's target network segment.
- next_type The next hub type.
- next_hub The route entry's next hub.

» tencentcloud_route_table_entry

Provides a resource to create an entry of a routing table.

```
variable "availability_zone" {
 default = "na-siliconvalley-1"
resource "tencentcloud_vpc" "foo" {
 name = "ci-temp-test"
 cidr_block = "10.0.0.0/16"
resource "tencentcloud_subnet" "foo" {
          = "${tencentcloud_vpc.foo.id}"
 vpc_id
                  = "terraform test subnet"
 name
                  = "10.0.12.0/24"
 cidr_block
 availability_zone = "${var.availability_zone}"
 route_table_id
                 = "${tencentcloud_route_table.foo.id}"
}
resource "tencentcloud_route_table" "foo" {
 vpc_id = "${tencentcloud_vpc.foo.id}"
 name = "ci-temp-test-rt"
}
```

The following arguments are supported:

- destination_cidr_block (Required, ForceNew) Destination address block.
- next_hub (Required, ForceNew) ID of next-hop gateway. Note: when 'next type' is EIP, GatewayId should be '0'.
- next_type (Required, ForceNew) Type of next-hop, and available values include CVM, VPN, DIRECTCONNECT, PEERCONNECTION, SS-LVPN, NAT, NORMAL CVM, EIP and CCN.
- route_table_id (Required, ForceNew) ID of routing table to which this entry belongs.
- description (Optional, ForceNew) Description of the routing table entry.

» tencentcloud_dnat

Provides a port mapping/forwarding of destination network address port translation (DNAT/DNAPT) resource.

```
Basic usage:
data "tencentcloud_availability_zones" "my_favorate_zones" {}

data "tencentcloud_image" "my_favorate_image" {
  filter {
    name = "image-type"
    values = ["PUBLIC_IMAGE"]
  }
}

# Create VPC and Subnet
```

```
resource "tencentcloud_vpc" "main" {
            = "terraform test"
  cidr_block = "10.6.0.0/16"
}
resource "tencentcloud_subnet" "main_subnet" {
                   = "${tencentcloud_vpc.main.id}"
  vpc_id
                   = "terraform test subnet"
 name
               = "10.6.7.0/24"
 cidr block
  availability_zone = "${data.tencentcloud_availability_zones.my_favorate_zones.cones.0.name
# Create EIP
resource "tencentcloud_eip" "eip_dev_dnat" {
 name = "terraform_test"
resource "tencentcloud_eip" "eip_test_dnat" {
 name = "terraform_test"
# Create NAT Gateway
resource "tencentcloud_nat_gateway" "my_nat" {
               = "${tencentcloud_vpc.main.id}"
 vpc_id
                = "terraform test"
 max_concurrent = 3000000
 bandwidth
               = 500
  assigned_eip_set = [
    "${tencentcloud_eip.eip_dev_dnat.public_ip}",
    "${tencentcloud_eip.eip_test_dnat.public_ip}",
 1
}
# Create CVM
resource "tencentcloud_instance" "foo" {
  availability_zone = "${data.tencentcloud_availability_zones.my_favorate_zones.zones.0.name
                   = "${data.tencentcloud_image.my_favorate_image.image_id}"
  image_id
                   = "${tencentcloud_vpc.main.id}"
 vpc_id
                  = "${tencentcloud_subnet.main_subnet.id}"
  subnet_id
# Add DNAT Entry
resource "tencentcloud_dnat" "dev_dnat" {
           = "${tencentcloud_nat_gateway.my_nat.vpc_id}"
 vpc_id
              = "${tencentcloud_nat_gateway.my_nat.id}"
 nat_id
```

```
= "tcp"
 protocol
             = "${tencentcloud_eip.eip_dev_dnat.public_ip}"
  elastic_ip
  elastic_port = "80"
 private_ip = "${tencentcloud_instance.foo.private_ip}"
 private_port = "9001"
resource "tencentcloud_dnat" "test_dnat" {
              = "${tencentcloud_nat_gateway.my_nat.vpc_id}"
 vpc_id
 nat_id
              = "${tencentcloud_nat_gateway.my_nat.id}"
 protocol
              = "udp"
  elastic_ip = "${tencentcloud_eip.eip_test_dnat.public_ip}"
  elastic_port = "8080"
             = "${tencentcloud instance.foo.private ip}"
 private_port = "9002"
```

The following arguments are supported:

- nat_id (Required, Forces new resource) The ID for the NAT Gateway.
- vpc_id (Required, Forces new resource) The VPC ID for the NAT Gateway.
- protocol (Required, Forces new resource) The ip protocol, valid value is tcp|udp.
- elastic_ip (Required, Forces new resource) The elastic IP of NAT gateway association, must a Elastic IP.
- elastic_port (Required, Forces new resource) The external port, valid value is 1~65535.
- private_ip (Required, Forces new resource) The internal ip, must a private ip (VPC IP).
- private_port (Required, Forces new resource) The internal port, valid value is $1{\sim}65535$

» tencentcloud_nat_gateway

Provides a resource to create a VPC NAT Gateway.

» Example Usage

Basic usage:

```
resource "tencentcloud_vpc" "main" {
            = "terraform test"
  cidr block = "10.6.0.0/16"
}
# Create EIP
resource "tencentcloud_eip" "eip_dev_dnat" {
 name = "terraform_test"
resource "tencentcloud_eip" "eip_test_dnat" {
 name = "terraform_test"
# Create NAT Gateway
resource "tencentcloud_nat_gateway" "my_nat" {
  vpc_id
                = "${tencentcloud_vpc.main.id}"
                 = "terraform test"
 name
 max_concurrent = 3000000
 bandwidth
                 = 500
  assigned_eip_set = [
    "${tencentcloud_eip.eip_dev_dnat.public_ip}",
    "${tencentcloud_eip.eip_test_dnat.public_ip}",
 ]
}
```

- name (Required) The name for the NAT Gateway.
- vpc_id (Required, Forces new resource) The VPC ID.
- max_concurrent (Required) The upper limit of concurrent connection of NAT gateway, for example: 1000000, 3000000, 10000000. To learn more, please refer to Virtual Private Cloud Gateway Description.
- bandwidth (Required) The maximum public network output bandwidth of the gateway (unit: Mbps), for example: 10, 20, 50, 100, 200, 500, 1000, 2000, 5000. For more information, please refer to Virtual Private Cloud Gateway Description.
- assigned_eip_set (Required) Elastic IP arrays bound to the gateway, For more information on elastic IP, please refer to Elastic IP.

» Attributes Reference

The following attributes are exported:

- id The ID of the NAT Gateway.
- name The name of the NAT Gateway.
- max_concurrent The upper limit of concurrent connection of NAT gateway.
- bandwidth The maximum public network output bandwidth of the gateway (unit: Mbps).
- assigned_eip_set Elastic IP arrays bound to the gateway