» Data Source: huaweicloud antiddos v1

The HuaweiCloud Antiddos data source allows to query the status of EIP, regardless whether an EIP has been bound to an Elastic Cloud Server (ECS) or not.

» Example Usage

```
variable "eip_id" {}

data "huaweicloud_antiddos_v1" "antiddos" {
  floating_ip_id = "${var.eip_id}"
}
```

» Argument Reference

The following arguments are supported:

- floating_ip_id (Optional) The Elastic IP ID.
- floating_ip_address (Optional) The Elastic IP address.
- status (Optional) The defense status.

» Attributes Reference

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

- network_type The EIP type.
- period_start The Start time.
- bps_attack The Attack traffic in (bit/s).
- bps_in The inbound traffic in (bit/s).
- total_bps The total traffic.
- pps_in The inbound packet rate (number of packets per second).
- pps_attack The attack packet rate (number of packets per second).
- total_pps The total packet rate.
- start_time The start time of cleaning and blackhole event.
- end_time The end time of cleaning and blackhole event.
- traffic_cleaning_status The traffic cleaning status.

- trigger_bps The traffic at the triggering point.
- trigger_pps The packet rate at the triggering point.
- trigger_http_pps The HTTP request rate at the triggering point.

» huaweicloud_api_gateway_api

Provides an API gateway API resource.

» Example Usage

```
resource "huaweicloud_api_gateway_group" "tf_apigw_group" {
   name = "tf_apigw_group"
    description = "your descpiption"
}
resource "huaweicloud_api_gateway_api" "tf_apigw_api" {
  group_id = huaweicloud_api_gateway_group.tf_apigw_group.id
 name = "tf_apigw_api"
  description = "your description"
  tags = ["tag1","tag2"]
  visibility = 2
  auth_type = "IAM"
 backend_type = "HTTP"
 request_protocol = "HTTPS"
 request_method = "GET"
 request_uri = "/test/path1"
  example_success_response = "example response"
 http_backend {
   protocol = "HTTPS"
   method = "GET"
   uri = "/web/openapi"
   url_domain = "myhuaweicloud.com"
    timeout = 10000
 }
}
```

» Argument Reference

- name (Required) Specifies the name of the API. An API name consists of 3–64 characters, starting with a letter. Only letters, digits, and underscores (_) are allowed.
- group_id (Required) Specifies the ID of the API group. Changing this creates a new resource.
- description (Optional) Specifies the description of the API. The description cannot exceed 255 characters.
- visibility (Optional) Specifies whether the API is available to the public. The value can be 1 (public) and 2 (private). Defaults to 2.
- auth_type (Required) Specifies the security authentication mode. The value can be 'App', 'IAM', and 'NONE'.
- request_protocol (Optional) Specifies the request protocol. The value can be 'HTTP', 'HTTPS', and 'BOTH' which means the API can be accessed through both 'HTTP' and 'HTTPS'. Defaults to 'HTTPS'.
- request_method (Required) Specifies the request method, including 'GET', 'POST', 'PUT' and etc..
- request_uri (Required) Specifies the request path of the API. The value must comply with URI specifications.
- backend_type (Required) Specifies the service backend type. The value can be:
 - 'HTTP': the web service backend
 - 'FUNCTION': the FunctionGraph service backend
 - 'MOCK': the Mock service backend
- http_backend (Optional) Specifies the configuration when backend_type selected 'HTTP' (documented below).
- function_backend (Optional) Specifies the configuration when backend type selected 'FUNCTION' (documented below).
- mock_backend (Optional) Specifies the configuration when backend_type selected 'MOCK' (documented below).
- request_parameter (Optional) the request parameter list (documented below).
- backend_parameter (Optional) the backend parameter list (documented below).
- tags (Optional) the tags of API in format of string list.
- version (Optional) Specifies the version of the API. A maximum of 16 characters are allowed.
- cors (Optional) Specifies whether CORS is supported or not.

- example_success_response (Required) Specifies the example response for a successful request. The length cannot exceed 20,480 characters.
- example_failure_response (Optional) Specifies the example response for a failed request The length cannot exceed 20,480 characters.

The http_backend object supports the following:

- protocol (Required) Specifies the backend request protocol. The value can be 'HTTP' and 'HTTPS'.
- method (Optional) Specifies the backend request method, including 'GET', 'POST', 'PUT' and etc..
- uri (Required) Specifies the backend request path. The value must comply with URI specifications.
- vpc_channel (Optional) Specifies the VPC channel ID. This parameter and url domain are alternative.
- url_domain (Optional) Specifies the backend service address. An endpoint URL is in the format of "domain name (or IP address):port number", with up to 255 characters. This parameter and vpc_channel are alternative.
- timeout (Optional) Timeout duration (in ms) for API Gateway to request for the backend service. Defaults to 50000.

The function_backend object supports the following:

- function_urn (Required) Specifies the function URN.
- invocation_type (Required) Specifies the invocation mode, which can be 'async' or 'sync'.
- version (Optional) Specifies the function version.
- timeout (Optional) Timeout duration (in ms) for API Gateway to request for FunctionGraph. Defaults to 50000.

The mock_backend object supports the following:

- result_content (Optional) Specifies the return result.
- version (Optional) Specifies the version of the Mock backend.
- description (Optional) Specifies the description of the Mock backend.
 The description cannot exceed 255 characters.

The request_parameter object supports the following:

- name (Required) Specifies the input parameter name. A parameter name consists of 1–32 characters, starting with a letter. Only letters, digits, periods (.), hyphens (-), and underscores (_) are allowed.
- location (Required) Specifies the input parameter location, which can be 'PATH', 'QUERY' or 'HEADER'.
- type (Required) Specifies the input parameter type, which can be 'STRING' or 'NUMBER'.
- required (Optional) Specifies whether the parameter is mandatory or not.

- default (Optional) Specifies the default value when the parameter is optional.
- description (Optional) Specifies the description of the parameter. The description cannot exceed 255 characters.

The backend_parameter object supports the following:

- name (Required) Specifies the parameter name. A parameter name consists of 1–32 characters, starting with a letter. Only letters, digits, periods (.), hyphens (-), and underscores (_) are allowed.
- location (Required) Specifies the parameter location, which can be 'PATH', 'QUERY' or 'HEADER'.
- type (Required) Specifies the parameter type, which can be 'REQUEST', 'CONSTANT', or 'SYSTEM'.
- value (Required) Specifies the parameter value, which is a string of not more than 255 characters. The value varies depending on the parameter type:
 - 'REQUEST': parameter name in request_parameter
 - 'CONSTANT': real value of the parameter
 - 'SYSTEM': gateway parameter name
- description (Optional) Specifies the description of the parameter. The description cannot exceed 255 characters.

» Attributes Reference

The following attributes are exported:

- id The ID of the API.
- group name The name of the API group to which the API belongs.

» Import

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

\$ terraform import huaweicloud_api_gateway_api.api "774438a28a574ac8a496325d1bf51807"

» huaweicloud_api_gateway_group

Provides an API gateway group resource.

» Example Usage

resource "huaweicloud_api_gateway_group" "apigw_group" {

```
name = "apigw_group"
description = "your description"
}
```

» Argument Reference

The following arguments are supported:

- name (Required) Specifies the name of the API group. An API group name consists of 3–64 characters, starting with a letter. Only letters, digits, and underscores () are allowed.
- description (Optional) Specifies the description of the API group. The description cannot exceed 255 characters.

» Attributes Reference

The following attributes are exported:

- id ID of the API group.
- status Status of the API group.
- name See Argument Reference above.
- description See Argument Reference above.

» huaweicloud_as_configuration_v1

Manages a V1 AS Configuration resource within HuaweiCloud.

» Example Usage

» Basic AS Configuration

```
resource "huaweicloud_as_configuration_v1" "my_as_config" {
   scaling_configuration_name = "my_as_config"
   instance_config {
     flavor = "${var.flavor}"
     image = "${var.image_id}"
     disk {
        size = 40
        volume_type = "SATA"
        disk_type = "SYS"
   }
   key name = "${var.keyname}"
```

```
user_data = "${file("userdata.txt")}"
 }
}
» AS Configuration With Encrypted Data Disk
resource "huaweicloud_as_configuration_v1" "my_as_config" {
  scaling_configuration_name = "my_as_config"
  instance_config {
    flavor = "${var.flavor}"
    image = "${var.image_id}"
    disk {
     size = 40
     volume_type = "SATA"
     disk_type = "SYS"
   disk {
      size = 100
     volume_type = "SATA"
     disk_type = "DATA"
     kms_id = "${var.kms_id}"
   key_name = "${var.keyname}"
    user_data = "${file("userdata.txt")}"
}
» AS Configuration With User Data and Metadata
resource "huaweicloud_as_configuration_v1" "my_as_config" {
  scaling_configuration_name = "my_as_config"
  instance_config {
   flavor = "${var.flavor}"
    image = "${var.image_id}"
   disk {
     size
                  = 40
     volume_type = "SATA"
```

= "SYS"

user_data = "\${file("userdata.txt")}"

key_name = "\${var.keyname}"

some_key = "some_value"

disk_type

metadata = {

```
}
}
```

user_data can come from a variety of sources: inline, read in from the file function, or the template_cloudinit_config resource.

\gg AS Configuration uses the existing instance specifications as the template

```
resource "huaweicloud_as_configuration_v1" "my_as_config" {
   scaling_configuration_name = "my_as_config"
   instance_config {
     instance_id = "4579f2f5-cbe8-425a-8f32-53dcb9d9053a"
     key_name = "${var.keyname}"
   }
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to create the AS configuration. If omitted, the region argument of the provider is used. Changing this creates a new AS configuration.
- scaling_configuration_name (Required) The name of the AS configuration. The name can contain letters, digits, underscores(_), and hyphens(-), and cannot exceed 64 characters.
- instance_config (Required) The information about instance configurations. The instance_config dictionary data structure is documented below.

The instance_config block supports:

- instance_id (Optional) When using the existing instance specifications as the template to create AS configurations, specify this argument. In this case, flavor, image, and disk arguments do not take effect. If the instance_id argument is not specified, flavor, image, and disk arguments are mandatory.
- flavor (Optional) The flavor ID.
- image (Optional) The image ID.
- disk (Optional) The disk group information. System disks are mandatory and data disks are optional. The dick structure is described below.

- key_name (Required) The name of the SSH key pair used to log in to the instance.
- user_data (Optional) The user data to provide when launching the instance. The file content must be encoded with Base64.
- personality (Optional) Customize the personality of an instance by defining one or more files and their contents. The personality structure is described below.
- public_ip (Optional) The elastic IP address of the instance. The public ip structure is described below.
- metadata (Optional) Metadata key/value pairs to make available from within the instance.

The disk block supports:

- size (Required) The disk size. The unit is GB. The system disk size ranges from 40 to 32768, and the data disk size ranges from 10 to 32768.
- volume_type (Required) The disk type, which must be the same as the disk type available in the system. The options include SATA (common I/O disk type) and SSD (ultra-high I/O disk type).
- disk_type (Required) Whether the disk is a system disk or a data disk.
 Option DATA indicates a data disk. option SYS indicates a system disk.
- kms_id (Optional) The Encryption KMS ID of the data disk.

The personality block supports:

- path (Required) The absolute path of the destination file.
- contents (Required) The content of the injected file, which must be encoded with base64.

The public_ip block supports:

• eip - (Required) The configuration parameter for creating an elastic IP address that will be automatically assigned to the instance. The eip structure is described below.

The eip block supports:

- ip_type (Required) The IP address type. The system only supports 5_bgp (indicates dynamic BGP).
- bandwidth (Required) The bandwidth information. The structure is described below.

The bandwidth block supports:

• size - (Required) The bandwidth (Mbit/s). The value range is 1 to 300.

- share_type (Required) The bandwidth sharing type. The system only supports PER (indicates exclusive bandwidth).
- charging_mode (Required) The bandwidth charging mode. The system only supports traffic.

» huaweicloud_as_group_v1

Manages a V1 Autoscaling Group resource within HuaweiCloud.

» Example Usage

» Basic Autoscaling Group

```
resource "huaweicloud_as_group_v1" "my_as_group" {
  scaling_group_name
                        = "my_as_group"
  scaling_configuration_id = "37e310f5-db9d-446e-9135-c625f9c2bbfc"
  desire_instance_number = 2
 min_instance_number
 max_instance_number
                          = 10
                          = "1d8f7e7c-fe04-4cf5-85ac-08b478c290e9"
 vpc_id
 delete_publicip
                          = "yes"
 delete_instances
 networks {
   id = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 }
 security_groups {
    id = "45e4c6de-6bf0-4843-8953-2babde3d4810"
}
```

» Autoscaling Group Only Remove Members When Scaling Down

```
networks {
    id = "ad091b52-742f-469e-8f3c-fd81cadf0743"
}
security_groups {
    id = "45e4c6de-6bf0-4843-8953-2babde3d4810"
}
}
```

» Autoscaling Group With ELB Listener

```
resource "huaweicloud_as_group_v1" "my_as_group_with_elb" {
 scaling_group_name = "my_as_group_with_elb"
 scaling configuration id = "37e310f5-db9d-446e-9135-c625f9c2bbfc"
 desire_instance_number = 2
 min_instance_number
                          = 0
                        = 10
 max_instance_number
 vpc_id
                          = "1d8f7e7c-fe04-4cf5-85ac-08b478c290e9"
 lb_listener_id
                        = "${huaweicloud_elb_listener.my_listener.id}"
 delete_publicip
                         = true
                         = "yes"
 delete_instances
 networks {
   id = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 }
 security_groups {
   id = "45e4c6de-6bf0-4843-8953-2babde3d4810"
 }
}
resource "huaweicloud_elb_listener" "my_listener" {
                = "my_listener"
 name
 description
                 = "my test listener"
                 = "TCP"
 protocol
 backend_protocol = "TCP"
 port
                  = 12345
 backend_port = 21345
lb_algorithm = "roundrobin"
 loadbalancer_id = "cba48790-baf5-4446-adb3-02069a916e97"
 timeouts {
   create = "5m"
   update = "5m"
   delete = "5m"
 }
}
```

» Autoscaling Group With Enhanced Load Balancer Listener

```
resource "huaweicloud_lb_loadbalancer_v2" "loadbalancer_1" {
 name = "loadbalancer 1"
 vip_subnet_id = "d9415786-5f1a-428b-b35f-2f1523e146d2"
}
resource "huaweicloud lb listener v2" "listener 1" {
 name = "listener_1"
 protocol = "HTTP"
 protocol_port = 8080
  loadbalancer_id = "${huaweicloud_lb_loadbalancer_v2.loadbalancer_1.id}"
}
resource "huaweicloud_lb_pool_v2" "pool_1" {
 name = "pool_1"
 protocol = "HTTP"
 lb_method = "ROUND_ROBIN"
 listener_id = "${huaweicloud_lb_listener_v2.listener_1.id}"
}
resource "huaweicloud_as_group_v1" "my_as_group_with_enhanced_lb"{
  scaling_group_name = "my_as_group_with_enhanced_lb"
  scaling_configuration_id = "37e310f5-db9d-446e-9135-c625f9c2bbfc"
 desire instance number = 2
 min_instance_number
                         = 0
                          = 10
 max_instance_number
                          = "1d8f7e7c-fe04-4cf5-85ac-08b478c290e9"
 vpc_id
 networks {
   id = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  security_groups {
   id = "45e4c6de-6bf0-4843-8953-2babde3d4810"
  lbaas_listeners {
   pool_id = "${huaweicloud_lb_pool_v2.pool_1.id}"
   protocol_port = "${huaweicloud_lb_listener_v2.listener_1.protocol_port}"
}
```

» Argument Reference

- region (Optional) The region in which to create the AS group. If omitted, the region argument of the provider is used. Changing this creates a new AS group.
- scaling_group_name (Required) The name of the scaling group. The name can contain letters, digits, underscores(_), and hyphens(-),and cannot exceed 64 characters.
- scaling_configuration_id (Optional) The configuration ID which defines configurations of instances in the AS group.
- desire_instance_number (Optional) The expected number of instances. The default value is the minimum number of instances. The value ranges from the minimum number of instances to the maximum number of instances.
- min_instance_number (Optional) The minimum number of instances. The default value is 0.
- max_instance_number (Optional) The maximum number of instances. The default value is 0.
- cool_down_time (Optional) The cooling duration (in seconds). The value ranges from 0 to 86400, and is 300 by default.
- lb_listener_id (Optional) The ELB listener IDs. The system supports up to three ELB listeners, the IDs of which are separated using a comma (.).
- lbaas_listeners (Optional) An array of one or more enhanced load balancer. The system supports the binding of up to three load balancers. The field is alternative to lb_listener_id. The lbaas_listeners object structure is documented below.
- available_zones (Optional) The availability zones in which to create the instances in the autoscaling group.
- networks (Required) An array of one or more network IDs. The system supports up to five networks. The networks object structure is documented below.
- security_groups (Required) An array of one or more security group IDs to associate with the group. The security_groups object structure is documented below.
- vpc_id (Required) The VPC ID. Changing this creates a new group.
- health_periodic_audit_method (Optional) The health check method for instances in the AS group. The health check methods include ELB_AUDIT and NOVA_AUDIT. If load balancing is configured, the default value of this parameter is ELB_AUDIT. Otherwise, the default value is NOVA_AUDIT.

- health_periodic_audit_time (Optional) The health check period for instances. The period has four options: 5 minutes (default), 15 minutes, 60 minutes, and 180 minutes.
- instance_terminate_policy (Optional) The instance removal policy. The policy has four options: OLD_CONFIG_OLD_INSTANCE (default), OLD_CONFIG_NEW_INSTANCE, OLD_INSTANCE, and NEW_INSTANCE.
- notifications (Optional) The notification mode. The system only supports EMAIL mode which refers to notification by email.
- delete_publicip (Optional) Whether to delete the elastic IP address bound to the instances of AS group when deleting the instances. The options are true and false.
- delete_instances (Optional) Whether to delete the instances in the AS group when deleting the AS group. The options are yes and no.

The networks block supports:

• id - (Required) The network UUID.

The security_groups block supports:

• id - (Required) The UUID of the security group.

The lbaas_listeners block supports:

- pool_id (Required) Specifies the backend ECS group ID.
- protocol_port (Required) Specifies the backend protocol, which is the port on which a backend ECS listens for traffic. The number of the port ranges from 1 to 65535.
- weight (Optional) Specifies the weight, which determines the portion of requests a backend ECS processes compared to other backend ECSs added to the same listener. The value of this parameter ranges from 0 to 100. The default value is 1.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- scaling_group_name See Argument Reference above.
- desire_instance_number See Argument Reference above.
- min_instance_number See Argument Reference above.
- max_instance_number See Argument Reference above.
- cool_down_time See Argument Reference above.
- lb_listener_id See Argument Reference above.
- health periodic audit method See Argument Reference above.
- health periodic audit time See Argument Reference above.

- instance_terminate_policy See Argument Reference above.
- scaling_configuration_id See Argument Reference above.
- delete_publicip See Argument Reference above.
- notifications See Argument Reference above.
- instances The instances IDs of the AS group.

» huaweicloud_as_policy_v1

Manages a V1 AS Policy resource within HuaweiCloud.

» Example Usage

» AS Recurrence Policy

```
resource "huaweicloud_as_policy_v1" "hth_aspolicy" {
 scaling_policy_name = "hth_aspolicy"
                   = "4579f2f5-cbe8-425a-8f32-53dcb9d9053a"
 scaling_group_id
 cool_down_time
                    = 900
 scaling_policy_type = "RECURRENCE"
 scaling_policy_action {
              = "ADD"
   operation
   instance_number = 1
 }
 scheduled_policy {
   launch time = "07:00"
   recurrence_type = "Daily"
   start_time = "2017-11-30T12:00Z"
                 = "2017-12-30T12:00Z"
    end_time
 }
}
```

» AS Scheduled Policy

```
resource "huaweicloud_as_policy_v1" "hth_aspolicy_1" {
   scaling_policy_name = "hth_aspolicy_1"
   scaling_group_id = "4579f2f5-cbe8-425a-8f32-53dcb9d9053a"
   cool_down_time = 900
   scaling_policy_type = "SCHEDULED"
   scaling_policy_action {
      operation = "REMOVE"
      instance_number = 1
   }
```

```
scheduled_policy {
    launch_time = "2017-12-22T12:00Z"
}
```

Please note that the launch_time of the SCHEDULED policy cannot be earlier than the current time.

» AS Alarm Policy

```
resource "huaweicloud_as_policy_v1" "hth_aspolicy_2" {
   scaling_policy_name = "hth_aspolicy_2"
   scaling_group_id = "4579f2f5-cbe8-425a-8f32-53dcb9d9053a"
   cool_down_time = 900
   scaling_policy_type = "ALARM"
   alarm_id = "37e310f5-db9d-446e-9135-c625f9c2bbfc"
   scaling_policy_action {
     operation = "ADD"
     instance_number = 1
   }
}
```

» Argument Reference

- region (Optional) The region in which to create the AS policy. If omitted, the region argument of the provider is used. Changing this creates a new AS policy.
- scaling_policy_name (Required) The name of the AS policy. The name can contain letters, digits, underscores(_), and hyphens(-), and cannot exceed 64 characters.
- scaling_group_id (Required) The AS group ID. Changing this creates a new AS policy.
- scaling_policy_type (Required) The AS policy type. The values can be ALARM, SCHEDULED, and RECURRENCE.
- alarm_id (Optional) The alarm rule ID. This argument is mandatory when scaling_policy_type is set to ALARM.
- scheduled_policy (Optional) The periodic or scheduled AS policy. This argument is mandatory when scaling_policy_type is set to SCHEDULED or RECURRENCE. The scheduled policy structure is documented below.

- scaling_policy_action (Optional) The action of the AS policy. The scaling_policy_action structure is documented below.
- cool_down_time (Optional) The cooling duration (in seconds), and is 900 by default.

The scheduled_policy block supports:

- launch_time (Required) The time when the scaling action is triggered. If scaling_policy_type is set to SCHEDULED, the time format is YYYY-MM-DDThh:mmZ. If scaling_policy_type is set to RECURRENCE, the time format is hh:mm.
- recurrence_type (Optional) The periodic triggering type. This argument is mandatory when scaling_policy_type is set to RECURRENCE. The options include Daily, Weekly, and Monthly.
- recurrence_value (Optional) The frequency at which scaling actions are triggered.
- start_time (Optional) The start time of the scaling action triggered periodically. The time format complies with UTC. The current time is used by default. The time format is YYYY-MM-DDThh:mmZ.
- end_time (Optional) The end time of the scaling action triggered periodically. The time format complies with UTC. This argument is mandatory when scaling_policy_type is set to RECURRENCE. The time format is YYYY-MM-DDThh:mmZ.

The scaling policy action block supports:

- operation (Optional) The operation to be performed. The options include ADD (default), REMOVE, and SET.
- instance_number (Optional) The number of instances to be operated. The default number is 1.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- scaling_policy_name See Argument Reference above.
- scaling_policy_type See Argument Reference above.
- alarm_id See Argument Reference above.
- cool_down_time See Argument Reference above.
- scaling_policy_action/operation See Argument Reference above.
- scaling_policy_action/instance_number See Argument Reference above.
- scheduled policy/launch time See Argument Reference above.

- scheduled_policy/recurrence_type See Argument Reference above.
- scheduled_policy/recurrence_value See Argument Reference above.
- scheduled_policy/start_time See Argument Reference above.
- scheduled_policy/end_time See Argument Reference above.

» huaweicloud_cce_cluster_v3

Provides details about all clusters and obtains certificate for accessing cluster information.

» Example Usage

```
variable "cluster_name" { }
variable "cluster_id" { }
variable "vpc_id" { }

data "huaweicloud_cce_cluster_v3" "cluster" {
 name = "${var.cluster_name}"
 id= "${var.cluster_id}"
 status= "Available"
}
```

» Argument Reference

The following arguments are supported:

- name (Optional)The Name of the cluster resource.
- id (Optional) The ID of container cluster.
- status (Optional) The state of the cluster.
- cluster_type (Optional) Type of the cluster. Possible values: Virtual-Machine, BareMetal or Windows

» Attributes Reference

All above argument parameters can be exported as attribute parameters along with attribute reference:

- billingMode Charging mode of the cluster.
- description Cluster description.
- name The name of the cluster in string format.

- id The ID of the cluster.
- flavor_id The cluster specification in string format.
- cluster_version The version of cluster in string format.
- container_network_cidr The container network segment.
- container_network_type The container network type: overlay_l2 , underlay ipvlan or vpc-router.
- subnet_id The ID of the subnet used to create the node.
- highway_subnet_id The ID of the high speed network used to create bare metal nodes.

endpoints

- internal The address accessed within the user's subnet.
- external Public network access address.

» huaweicloud_cce_nodes_v3

To get the specified node in a cluster.

» Example Usage

```
variable "cluster_id" { }
variable "node_id" { }

data "huaweicloud_cce_node_v3" "node" {
 cluster_id = "${var.cluster_id}"
 node_id= "${var.node_id}"
}
```

» Argument Reference

- Cluster_id (Required) The id of container cluster.
- name (Optional) Name of the node.
- $\bullet\,$ node_id (Optional) The id of the node.
- status (Optional) The state of the node.

» Attributes Reference

All above argument parameters can be exported as attribute parameters along with attribute reference:

- flavor_id The flavor id to be used.
- availability_zone Available partitions where the node is located.
- key_pair Key pair name when logging in to select the key pair mode.
- billing_mode Node's billing mode: The value is 0 (on demand).
- charge_mode Bandwidth billing type.
- bandwidth_size Bandwidth (Mbit/s), in the range of [1, 2000].
- extendparam Extended parameters.
- node_count The number of nodes in batch creation.
- eip_ids List of existing elastic IP IDs.
- server_id The node's virtual machine ID in ECS.
- public_ip Elastic IP parameters of the node.
- private_ip Private IP of the node
- ip_type Elastic IP address type.
- share_type The bandwidth sharing type.

NOTE: This parameter is mandatory when share_type is set to PER and is optional when share type is set to WHOLE with an ID specified.

Enumerated values: PER (indicates exclusive bandwidth) and WHOLE (indicates sharing)

${f root_volumes}$

- disk_size Disk size in GB.
- volumetype Disk type.

data_volumes

- disk_size Disk size in GB.
- volumetype Disk type.

» huaweicloud_cce_cluster_v3

Provides a cluster resource (CCE).

» Example Usage

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

resource "huaweicloud_cce_cluster_v3" "cluster_1" {
 name = "cluster"
  cluster_type= "VirtualMachine"
  flavor_id= "${var.flavor_id}"
  vpc_id= "${var.vpc_id}"
  subnet_id= "${var.subnet_id}"
  container_network_type= "overlay_12"
  authentication_mode = "rbac"
  description= "Create cluster"
}
```

» Argument Reference

- name (Required) Cluster name. Changing this parameter will create a new cluster resource.
- labels (Optional) Cluster tag, key/value pair format. Changing this parameter will create a new cluster resource.
- annotations (Optional) Cluster annotation, key/value pair format. Changing this parameter will create a new cluster resource.
- flavor_id (Required) Cluster specifications. Changing this parameter will create a new cluster resource. Possible values:
 - cce.s1.small small-scale single cluster (up to 50 nodes).
 - cce.s1.medium medium-scale single cluster (up to 200 nodes).
 - cce.s1.large large-scale single cluster (up to 1000 nodes).
 - cce.s2.small small-scale HA cluster (up to 50 nodes).
 - cce.s2.medium medium-scale HA cluster (up to 200 nodes).
 - cce.s2.large large-scale HA cluster (up to 1000 nodes).
 - cce.t1.small small-scale single physical machine cluster (up to 10 nodes).
 - cce.t1.medium medium-scale single physical machine cluster (up to 100 nodes).
 - cce.t1.large large-scale single physical machine cluster (up to 500 nodes).
 - cce.t2.small small-scale HA physical machine cluster (up to 10 nodes).

- cce.t2.medium medium-scale HA physical machine cluster (up to 100 nodes).
- cce.t2.large large-scale HA physical machine cluster (up to 500 nodes).
- cluster_version (Optional) For the cluster version, possible values are v1.7.3-r10 or v1.9.2-r1.
- cluster_type (Required) Cluster Type, possible values are VirtualMachine and BareMetal. Changing this parameter will create a new cluster resource.
- description (Optional) Cluster description.
- billing_mode (Optional) Charging mode of the cluster, which is 0 (on demand). Changing this parameter will create a new cluster resource.
- extend_param (Optional) Extended parameter. Changing this parameter will create a new cluster resource.
- vpc_id (Required) The ID of the VPC used to create the node. Changing this parameter will create a new cluster resource.
- subnet_id (Required) The ID of the subnet used to create the node. Changing this parameter will create a new cluster resource.
- highway_subnet_id (Optional) The ID of the high speed network used to create bare metal nodes. Changing this parameter will create a new cluster resource.
- container_network_type (Required) Container network parameters.
 Possible values:
 - overlay_12 An overlay_l2 network built for containers by using Open vSwitch(OVS)
 - underlay_ipvlan An underlay_ipvlan network built for bare metal servers by using ipvlan.
 - vpc-router An vpc-router network built for containers by using ipvlan and custom VPC routes.
- container_network_cidr (Optional) Container network segment. Changing this parameter will create a new cluster resource.
- authentication_mode (Optional) Authentication mode of the cluster, possible values are x509 and rbac. Defaults to x509. Changing this parameter will create a new cluster resource.
- multi_az (Optional) Enable multiple AZs for the cluster, only when using HA flavors. Changing this parameter will create a new cluster resource.
- eip (Optional) EIP address of the cluster. Changing this parameter will create a new cluster resource.

» Attributes Reference

All above argument parameters can be exported as attribute parameters along with attribute reference.

- id Id of the cluster resource.
- status Cluster status information.
- certificate_clusters/name The cluster name.
- certificate_clusters/server The server IP address.
- certificate_clusters/certificate_authority_data The certificate data.
- certificate_users/name The user name.
- certificate_users/client_certificate_data The client certificate data.
- certificate_users/client_key_data The client key data.

» Import

Cluster can be imported using the cluster id, e.g. \$ terraform import huaweicloud_cce_cluster_v3.cluster_1 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

» huaweicloud_cce_nodes_v3

Add a node to a container cluster.

» Example Usage

```
variable "cluster_id" { }
variable "ssh_key" { }
variable "availability_zone" { }

resource "huaweicloud_cce_node_v3" "node_1" {
  cluster_id="${var.cluster_id}"
  name = "node1"
  flavor_id="s1.medium"
  iptype="5_bgp"
  availability_zone= "${var.availability_zone}"
  key_pair="${var.ssh_key}"
```

```
root_volume {
    size= 40
    volumetype= "SATA"
}
    sharetype= "PER"
    bandwidth_size= 100
    data_volumes {
        size= 100
        volumetype= "SATA"
    }
}
```

» Argument Reference

- cluster_id (Required) ID of the cluster. Changing this parameter will create a new resource.
- billing_mode (Optional) Node's billing mode: The value is 0 (on demand). Changing this parameter will create a new resource.
- name (Optional) Node Name.
- labels (Optional) Node tag, key/value pair format. Changing this parameter will create a new resource.
- annotations (Optional) Node annotation, key/value pair format. Changing this parameter will create a new resource.
- flavor_id (Required) Specifies the flavor id. Changing this parameter will create a new resource.
- availability_zone (Required) specify the name of the available partition (AZ). Changing this parameter will create a new resource.
- os (Optional) Operating System of the node, possible values are EulerOS 2.2 and CentOS 7.1. Defaults to EulerOS 2.2. Changing this parameter will create a new resource.
- key_pair (Optional) Key pair name when logging in to select the key pair mode. Changing this parameter will create a new resource.
- password (Optional) root password when logging in to select the password mode. Changing this parameter will create a new resource.
- eip_ids (Optional) List of existing elastic IP IDs. Changing this parameter will create a new resource.

Note: If the eip_ids parameter is configured, you do not need to configure the eip_count and bandwidth parameters: iptype, charge_mode, bandwidth_size and share type.

- eip_count (Optional) Number of elastic IPs to be dynamically created. Changing this parameter will create a new resource.
- iptype (Optional) Elastic IP type. Default is 5_bgp. Changing this parameter will create a new resource.
- bandwidth_charge_mode (Optional) Bandwidth billing type. Changing this parameter will create a new resource.
- sharetype (Optional) Bandwidth sharing type. Changing this parameter will create a new resource.
- bandwidth_size (Optional) Bandwidth size. Changing this parameter will create a new resource.
- extend_param_charging_mode (Optional) Node charging mode, 0 is ondemand charging. Changing this parameter will create a new cluster resource.
- ecs_performance_type (Optional) Classification of cloud server specifications. Changing this parameter will create a new cluster resource.
- order_id (Optional) Order ID, mandatory when the node payment type is the automatic payment package period type. Changing this parameter will create a new cluster resource.
- product_id (Optional) The Product ID. Changing this parameter will create a new cluster resource.
- max_pods (Optional) The maximum number of instances a node is allowed to create. Changing this parameter will create a new cluster resource.
- public_key (Optional) The Public key. Changing this parameter will create a new cluster resource.
- preinstall (Optional) Script required before installation. The input value can be a Base64 encoded string or not. Changing this parameter will create a new resource.
- postinstall (Optional) Script required after installation. The input value can be a Base64 encoded string or not. Changing this parameter will create a new resource.

root_volume - (Required) It corresponds to the system disk related configuration. Changing this parameter will create a new resource.

- size (Required) Disk size in GB.
- volumetype (Required) Disk type.

• extend_param - (Optional) Disk expansion parameters.

data_volumes - (Required) Represents the data disk to be created. Changing this parameter will create a new resource.

- size (Required) Disk size in GB.
- volumetype (Required) Disk type.
- extend_param (Optional) Disk expansion parameters.

» Attributes Reference

All above argument parameters can be exported as attribute parameters along with attribute reference.

- status Node status information.
- private_ip Private IP of the CCE node.
- public_ip Public IP of the CCE node.

» huaweicloud_cdm_flavors_v1

Use this data source to get available Huaweicloud cdm flavors.

» Example Usage

```
data "huaweicloud_cdm_flavors_v1" "flavor" {
}
```

» Attributes Reference

The following attributes are exported:

- version The version of the flavor.
- flavors Indicates the flavors information. Structure is documented below.

The flavors block contains:

- name The name of the cdm flavor.
- id The id of the cdm flavor.

» huaweicloud_cdm_cluster_v1

cdm cluster management

» Example Usage

» create a cdm cluster

```
resource "huaweicloud_networking_secgroup_v2" "secgroup" {
             = "terraform test security group"
 description = "terraform security group acceptance test"
}
resource "huaweicloud_cdm_cluster_v1" "cluster" {
 availability_zone = "{{ availability_zone }}"
                 = "{{ flavor_id }}"
 flavor_id
                   = "terraform_test_cdm_cluster"
 security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
 subnet_id = "{{ network_id }}"
                   = "{{ vpc_id }}"
 vpc_id
 version
                   = "{{ version }}"
}
```

» Argument Reference

- availability_zone (Required) Available zone. Changing this parameter will create a new resource.
- flavor_id (Required) Flavor id. Changing this parameter will create a new resource.
- name (Required) Cluster name. Changing this parameter will create a new resource.
- security_group_id (Required) Security group ID. Changing this parameter will create a new resource.
- subnet_id (Required) Subnet ID. Changing this parameter will create a new resource.
- version (Required) Cluster version. Changing this parameter will create a new resource.
- vpc_id (Required) VPC ID. Changing this parameter will create a new resource.

- email (Optional) Notification email addresses. The max number is 5. Changing this parameter will create a new resource.
- enterprise_project_id (Optional) The enterprise project id. Changing this parameter will create a new resource.
- is_auto_off (Optional) Whether to automatically shut down. Changing this parameter will create a new resource.
- phone_num (Optional) Notification phone numbers. The max number is 5. Changing this parameter will create a new resource.
- schedule_boot_time (Optional) Timed boot time. Changing this parameter will create a new resource.
- schedule_off_time (Optional) Timed shutdown time. Changing this parameter will create a new resource.

» Attributes Reference

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

- created Create time.
- instances Instance list. Structure is documented below.
- publid_ip Public ip.

The instances block contains:

- id Instance ID.
- name Instance name.
- public_ip Public IP.
- role Role.
- traffic_ip Traffic IP.
- type Instance type.

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 30 minute.

» huaweicloud_ces_alarmrule

Manages a V2 topic resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_ces_alarmrule" "alarm_rule" {
  "alarm_name" = "alarm_rule"
  "metric" {
    "namespace" = "SYS.ECS"
    "metric_name" = "network_outgoing_bytes_rate_inband"
    "dimensions" {
        "name" = "instance_id"
        "value" = "${huaweicloud_compute_instance_v2.webserver.id}"
   }
 }
  "condition" {
    "period" = 300
    "filter" = "average"
    "comparison_operator" = ">"
    "value" = 6
    "unit" = "B/s"
    "count" = 1
 }
  "alarm_actions" {
    "type" = "notification"
    "notification_list" = [
      "${huaweicloud_smn_topic_v2.topic.id}"
 }
}
```

» Argument Reference

- alarm_name (Required) Specifies the name of an alarm rule. The value can be a string of 1 to 128 characters that can consist of numbers, lowercase letters, uppercase letters, underscores (_), or hyphens (-).
- alarm_description (Optional) The value can be a string of 0 to 256 characters.
- metric (Required) Specifies the alarm metrics. The structure is described below.

- condition (Required) Specifies the alarm triggering condition. The structure is described below.
- alarm_actions (Optional) Specifies the action triggered by an alarm. The structure is described below.
- insufficientdata_actions (Optional) Specifies the action triggered by data insufficiency. The structure is described below.
- ok_actions (Optional) Specifies the action triggered by the clearing of an alarm. The structure is described below.
- alarm_enabled (Optional) Specifies whether to enable the alarm. The
 default value is true.
- alarm_action_enabled (Optional) Specifies whether to enable the action to be triggered by an alarm. The default value is true. Note: If alarm_action_enabled is set to true, at least one of the following parameters alarm_actions, insufficientdata_actions, and ok_actions cannot be empty. If alarm_actions, insufficientdata_actions, and ok_actions coexist, their corresponding notification_list must be of the same value.

The metric block supports:

- namespace (Required) Specifies the namespace in service.item format. service.item can be a string of 3 to 32 characters that must start with a letter and can consists of uppercase letters, lowercase letters, numbers, or underscores ().
- metric_name (Required) Specifies the metric name. The value can be a string of 1 to 64 characters that must start with a letter and can consists of uppercase letters, lowercase letters, numbers, or underscores (_).
- dimensions (Required) Specifies the list of metric dimensions. Currently, the maximum length of the dimesion list that are supported is 3. The structure is described below.

The dimensions block supports:

- name (Required) Specifies the dimension name. The value can be a string of 1 to 32 characters that must start with a letter and can consists of uppercase letters, lowercase letters, numbers, underscores (_), or hyphens (-).
- value (Required) Specifies the dimension value. The value can be a string of 1 to 64 characters that must start with a letter or a number and can consists of uppercase letters, lowercase letters, numbers, underscores (_), or hyphens (-).

The condition block supports:

- period (Required) Specifies the alarm checking period in seconds. The value can be 1, 300, 1200, 3600, 14400, and 86400. Note: If period is set to 1, the raw metric data is used to determine whether to generate an alarm.
- filter (Required) Specifies the data rollup methods. The value can be max, min, average, sum, and vaiance.
- comparison_operator (Required) Specifies the comparison condition of alarm thresholds. The value can be >, =, <, >=, or <=.
- value (Required) Specifies the alarm threshold. The value ranges from 0 to Number of 1.7976931348623157e+308.
- unit (Optional) Specifies the data unit.
- count (Required) Specifies the number of consecutive occurrence times. The value ranges from 1 to 5.

the alarm_actions block supports:

- type (Optional) specifies the type of action triggered by an alarm. the value can be notification or autoscaling. notification: indicates that a notification will be sent to the user. autoscaling: indicates that a scaling action will be triggered.
- notification_list (Optional) specifies the topic urn list of the target notification objects. the maximum length is 5. the topic urn list can be obtained from simple message notification (smn) and in the following format: urn: smn:([a-z]|[a-z]|[0-9]|-){1,32}:([a-z]|[a-z]|[0-9]|-]-){1,256}. if type is set to notification, the value of notification_list cannot be empty. if type is set to autoscaling, the value of notification_list must be [] and the value of namespace must be sys.as. Note: to enable the as alarm rules take effect, you must bind scaling policies. for details, see the auto scaling api reference.

the insufficientdata_actions block supports:

- type (Optional) specifies the type of action triggered by an alarm. the value is notification. notification: indicates that a notification will be sent to the user.
- notification_list (Optional) indicates the list of objects to be notified if the alarm status changes. the maximum length is 5.

the ok_actions block supports:

- type (Optional) specifies the type of action triggered by an alarm. the value is notification. notification: indicates that a notification will be sent to the user.
- notification_list (Optional) indicates the list of objects to be notified if the alarm status changes. the maximum length is 5.

» Attributes Reference

The following attributes are exported:

- alarm name See Argument Reference above.
- alarm_description See Argument Reference above.
- metric See Argument Reference above.
- condition See Argument Reference above.
- alarm_actions See Argument Reference above.
- insufficientdata_actions See Argument Reference above.
- ok_actions See Argument Reference above.
- alarm_enabled See Argument Reference above.
- alarm_action_enabled See Argument Reference above.
- id Specifies the alarm rule ID.
- update_time Specifies the time when the alarm status changed. The value is a UNIX timestamp and the unit is ms.
- alarm_state Specifies the alarm status. The value can be: ok: The alarm status is normal, alarm: An alarm is generated, insufficient_data: The required data is insufficient.

» huaweicloud_css_cluster_v1

cluster management

» Example Usage

```
» create a cluster
```

```
resource "huaweicloud_networking_secgroup_v2" "secgroup" {
             = "terraform_test_security_group"
  description = "terraform security group acceptance test"
}
resource "huaweicloud_css_cluster_v1" "cluster" {
  expect_node_num = 1
                 = "terraform_test_cluster"
 name
  engine_version = "6.2.3"
 node_config {
    flavor = "ess.spec-2u16g"
   network_info {
      security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
                       = "{{ network id }}"
      subnet id
      vpc_id
                       = "{{ vpc_id }}"
    }
```

```
volume {
    volume_type = "COMMON"
    size = 40
  }
  availability_zone = "{{ availability_zone }}"
}
```

» Argument Reference

The following arguments are supported:

- engine_version (Required) Engine version. Versions 5.5.1 and 6.2.3 are supported. Changing this parameter will create a new resource.
- name (Required) Cluster name. It contains 4 to 32 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. The value must start with a letter. Changing this parameter will create a new resource.
- node_config (Required) Node configuration. Structure is documented below. Changing this parameter will create a new resource.

The node_config block supports:

- availability_zone (Optional) Availability zone (AZ). Changing this parameter will create a new resource.
- flavor (Required) Instance flavor name. Value range of flavor ess.spec-1u8g: 40 GB to 640 GB Value range of flavor ess.spec-2u16g: 40 GB to 1280 GB Value range of flavor ess.spec-4u32g: 40 GB to 2560 GB Value range of flavor ess.spec-8u64g: 80 GB to 5120 GB Value range of flavor ess.spec-16u128g: 160 GB to 10240 GB. Changing this parameter will create a new resource.
- network_info (Required) Network information. Structure is documented below. Changing this parameter will create a new resource.
- volume (Required) Information about the volume. Structure is documented below. Changing this parameter will create a new resource.

The network_info block supports:

- security_group_id (Required) Security group ID. All instances in a cluster must have the same subnets and security groups. Changing this parameter will create a new resource.
- subnet_id (Required) Subnet ID. All instances in a cluster must have the same subnets and security groups. Changing this parameter will create a new resource.

• vpc_id - (Required) VPC ID, which is used for configuring cluster network. Changing this parameter will create a new resource.

The volume block supports:

- size (Required) Volume size, which must be a multiple of 4 and 10. Changing this parameter will create a new resource.
- volume_type (Required) COMMON: Common I/O. The SATA disk is used. HIGH: High I/O. The SAS disk is used. ULTRAHIGH: Ultra-high I/O. The solid-state drive (SSD) is used. Changing this parameter will create a new resource.
- engine_type (Optional) Engine type. The default value is elasticsearch. Currently, the value can only be elasticsearch. Changing this parameter will create a new resource.
- expect_node_num (Optional) Number of cluster instances. The value range is 1 to 32.

» Attributes Reference

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

- created Time when a cluster is created. The format is ISO8601: CCYY-MM-DDThh:mm:ss.
- endpoint Indicates the IP address and port number.
- nodes List of node objects. Structure is documented below.

The nodes block contains:

- id Instance ID.
- name Instance name.
- type Supported type: ess (indicating the Elasticsearch node).

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 30 minute. - update - Default is 30 minute.

» Data Source: huaweicloud_csbs_backup_policy_v1

The HuaweiCloud CSBS Backup Policy data source allows access of backup Policy resources.

» Example Usage

```
variable "policy_id" {}

data "huaweicloud_csbs_backup_policy_v1" "csbs_policy" {
  id = "${var.policy_id}"
}
```

» Argument Reference

The following arguments are supported:

- id (Optional) Specifies the ID of backup policy.
- name (Optional) Specifies the backup policy name.
- status (Optional) Specifies the backup policy status.

» Attributes Reference

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

- description Specifies the backup policy description.
- provider_id Provides the Backup provider ID.
- parameters Specifies the parameters of a backup policy.
- scheduled_operation block supports the following arguments:
 - name Specifies Scheduling period name.
 - description Specifies Scheduling period description.
 - enabled Specifies whether the scheduling period is enabled.
 - max_backups Specifies maximum number of backups that can be automatically created for a backup object.
 - retention_duration_days Specifies duration of retaining a backup, in days.
 - permanent Specifies whether backups are permanently retained.
 - trigger_pattern Specifies Scheduling policy of the scheduler.
 - operation_type Specifies Operation type, which can be backup.
 - id Specifies Scheduling period ID.
 - trigger_id Specifies Scheduler ID.

```
trigger_name - Specifies Scheduler name.trigger_type - Specifies Scheduler type.
```

- resource block supports the following arguments:
 - id Specifies the ID of the object to be backed up.
 - type Entity object type of the backup object.
 - name Specifies backup object name.

» Data Source: huaweicloud_csbs_backup_v1

The HuaweiCloud CSBS Backup data source allows access of backup resources.

» Example Usage

```
variable "backup_name" {}

data "huaweicloud_csbs_backup_v1" "csbs" {
 backup_name = "${var.backup_name}"
}
```

» Argument Reference

The following arguments are supported:

- id (Optional) Specifies the ID of backup.
- backup_name (Optional) Specifies the backup name.
- status (Optional) Specifies the backup status.
- resource_name (Optional) Specifies the backup object name.
- backup_record_id (Optional) Specifies the backup record ID.
- resource_type (Optional) Specifies the type of backup objects.
- resource_id (Optional) Specifies the backup object ID.
- policy_id (Optional) Specifies the Policy Id.
- vm_ip (Optional) Specifies the ip of VM.

» Attributes Reference

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

- description Provides the backup description.
- auto_trigger Specifies whether automatic trigger is enabled.
- average_speed Specifies average speed.
- size Specifies the backup capacity.
- volume backups
 - space_saving_ratio Specifies the space saving rate.
 - volume_backups block supports the following arguments:
 - status Status of backup Volume.
 - space_saving_ratio Specifies space saving rate.
 - name It gives EVS disk backup name.
 - bootable Specifies whether the disk is bootable.
 - average_speed Specifies the average speed.
 - source_volume_size Shows source volume size in GB.
 - source_volume_id It specifies source volume ID.
 - incremental Shows whether incremental backup is used.
 - snapshot_id ID of snapshot.
 - source_volume_name Specifies source volume name.
 - image_type It specifies backup. The default value is backup.
 - id Specifies Cinder backup ID.
 - size Specifies accumulated size (MB) of backups.
- vm_metadata block supports the following arguments:
 - name Name of backup data.
 - eip Specifies elastic IP address of the ECS.
 - cloud_service_type Specifies ECS type.
 - ram Specifies memory size of the ECS, in MB.
 - vcpus Specifies CPU cores corresponding to the ECS.
 - private_ip It specifies internal IP address of the ECS.
 - disk Shows system disk size corresponding to the ECS specifications.
 - image_type Specifies image type.

» huaweicloud_csbs_backup_v1

Provides an HuaweiCloud Backup of Resources.

» Example Usage

```
variable "backup_name" {}
variable "resource_id" {}
```

```
resource "huaweicloud_csbs_backup_v1" "backup_v1" {
  backup_name = "${var.backup_name}"
  resource_id = "${var.resource_id}"
  resource_type = "OS::Nova::Server"
}
```

The following arguments are supported:

- backup_name (Optional) Name for the backup. The value consists of 1 to 255 characters and can contain only letters, digits, underscores (_), and hyphens (-). Changing backup_name creates a new backup.
- description (Optional) Backup description. The value consists of 0 to 255 characters and must not contain a greater-than sign (>) or less-than sign (<). Changing description creates a new backup.
- resource_id (Required) ID of the target to which the backup is restored. Changing this creates a new backup.
- resource_type (Optional) Type of the target to which the backup is restored. The default value is **OS::Nova::Server** for an ECS. Changing this creates a new backup.

» Attributes Reference

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

- status It specifies the status of backup.
- backup record id Specifies backup record ID.
- volume_backups block supports the following arguments:
 - status Status of backup Volume.
 - space_saving_ratio Specifies space saving rate.
 - name It gives EVS disk backup name.
 - bootable Specifies whether the disk is bootable.
 - average_speed Specifies the average speed.
 - source_volume_size Shows source volume size in GB.
 - source_volume_id It specifies source volume ID.
 - incremental Shows whether incremental backup is used.
 - snapshot_id ID of snapshot.
 - source_volume_name Specifies source volume name.
 - image_type It specifies backup. The default value is backup.
 - id Specifies Cinder backup ID.
 - size Specifies accumulated size (MB) of backups.

- vm_metadata block supports the following arguments:
 - name Name of backup data.
 - eip Specifies elastic IP address of the ECS.
 - cloud_service_type Specifies ECS type.
 - ram Specifies memory size of the ECS, in MB.
 - vcpus Specifies CPU cores corresponding to the ECS.
 - private_ip It specifies internal IP address of the ECS.
 - disk Shows system disk size corresponding to the ECS specifications.
 - image_type Specifies image type.

» Import

Backup can be imported using backup_record_id, e.g.

\$ terraform import huaweicloud_csbs_backup_v1.backup_v1.backup_v1 7056d636-ac60-4663-8a6c-89

» huaweicloud_csbs_backup_policy_v1

Provides an HuaweiCloud Backup Policy of Resources.

» Example Usage

```
variable "name" {}
variable "id" {}
variable "resource_name" {}

resource "huaweicloud_csbs_backup_policy_v1" "backup_policy_v1" {
    name = "${var.name}"
    resource {
        id = "${var.id}"
        type = "0S::Nova::Server"
        name = "${var.resource_name}"
    }
    scheduled_operation {
        enabled = true
        operation_type = "backup"
        trigger_pattern = "BEGIN:VCALENDAR\r\nBEGIN:VEVENT\r\nRRULE:FREQ=WEEKLY;BYDAY=TH;BYHOUR:
    }
}
```

The following arguments are supported:

- name (Required) Specifies the name of backup policy. The value consists of 1 to 255 characters and can contain only letters, digits, underscores (_), and hyphens (-).
- description (Optional) Backup policy description. The value consists of 0 to 255 characters and must not contain a greater-than sign (>) or less-than sign (<).
- provider_id (Required) Specifies backup provider ID. Default value is fc4d5750-22e7-4798-8a46-f48f62c4c1da
- common (Optional) General backup policy parameters, which are blank by default.
- scheduled_operation block supports the following arguments:
 - name (Optional) Specifies Scheduling period name. The value consists of 1 to 255 characters and can contain only letters, digits, underscores (_), and hyphens (-).
 - description (Optional) Specifies Scheduling period description. The value consists of 0 to 255 characters and must not contain a greater-than sign (>) or less-than sign (<).
 - enabled (Optional) Specifies whether the scheduling period is enabled. Default value is true
 - max_backups (Optional) Specifies maximum number of backups that can be automatically created for a backup object.
 - retention_duration_days (Optional) Specifies duration of retaining a backup, in days.
 - permanent (Optional) Specifies whether backups are permanently retained.
 - trigger_pattern (Required) Specifies Scheduling policy of the scheduler.
 - operation_type (Required) Specifies Operation type, which can be backup.
- resource block supports the following arguments:
 - id (Required) Specifies the ID of the object to be backed up.
 - type (Required) Entity object type of the backup object. If the type is VMs, the value is OS::Nova::Server.
 - name (Required) Specifies backup object name.

» Attributes Reference

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

- status Status of Backup Policy.
- id Backup Policy ID.
- scheduled_operation Backup plan information
 - id Specifies Scheduling period ID.
 - trigger_id Specifies Scheduler ID.
 - trigger_name Specifies Scheduler name.
 - trigger_type Specifies Scheduler type.

» Import

Backup Policy can be imported using id, e.g.

\$ terraform import huaweicloud_csbs_backup_policy_v1.backup_policy_v1 7056d636-ac60-4663-8a6

» huaweicloud_cs_cluster_v1

Cloud Stream Service cluster management

» Example Usage

```
» create a cluster
```

```
resource "huaweicloud_cs_cluster_v1" "cluster" {
  name = "terraform_cs_cluster_v1_test"
}
```

» Argument Reference

- name (Required) Cluster name.
- description (Optional) cluster description.
- max_spu_num (Optional) Cluster maximum SPU number.
- subnet_cidr (Optional) Cluster sub segment. Changing this parameter will create a new resource.
- subnet_gateway (Optional) Cluster subnet gateway. Changing this parameter will create a new resource.
- vpc_cidr (Optional) Cluster VPC network segment. Changing this parameter will create a new resource.

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

- created_at Cluster creation time.
- manager_node_spu_num Cluster management node SPU number.
- used spu num The used SPU number of Cluster.

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 30 minute. - delete - Default is 30 minute.

» huaweicloud cs peering connect v1

Cloud Stream Service cluster peering connect management

» Example Usage

» create a cluster peering connect

```
resource "huaweicloud_cs_cluster_v1" "cluster" {
 name = "terraform_cs_cluster_v1_test"
}
resource "huaweicloud_vpc_v1" "vpc" {
 name = "terraform_vpc_v1_test"
  cidr = "192.168.0.0/16"
resource "huaweicloud_vpc_subnet_v1" "subnet" {
 name = "terraform_vpc_subnet_v1_test"
            = "192.168.0.0/16"
  gateway_ip = "192.168.0.1"
            = "${huaweicloud_vpc_v1.vpc.id}"
 vpc_id
}
resource "huaweicloud_cs_peering_connect_v1" "peering" {
 name = "terraform_cs_peering_connect_v1_test"
 target_vpc_info {
    vpc_id = "${huaweicloud_vpc_v1.vpc.id}"
```

```
}
  cluster_id = "${huaweicloud_cs_cluster_v1.cluster.id}"
}
```

The following arguments are supported:

- cluster_id (Required) The id of cloud stream cluster. Changing this parameter will create a new resource.
- name (Required) The name of peering connection. Changing this parameter will create a new resource.
- target_vpc_info (Optional) The information of target vpc. Structure is documented below. Changing this parameter will create a new resource.

The target_vpc_info block supports:

- project_id (Optional) The project ID to which target vpc belongs. Changing this parameter will create a new resource.
- vpc_id (Required) The VPC ID. Changing this parameter will create a new resource.

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 30 minute.

» huaweicloud_cs_route_v1

Cloud Stream Service cluster peering connect route management

» Example Usage

» create a cluster peering connect route

```
resource "huaweicloud_cs_cluster_v1" "cluster" {
   name = "terraform_cs_cluster_v1_test"
}
resource "huaweicloud_vpc_v1" "vpc" {
   name = "terraform_vpc_v1_test"
```

```
cidr = "192.168.0.0/16"
resource "huaweicloud_vpc_subnet_v1" "subnet" {
 name = "terraform_vpc_subnet_v1_test"
 cidr = "192.168.0.0/16"
 gateway_ip = "192.168.0.1"
  vpc_id = "${huaweicloud_vpc_v1.vpc.id}"
resource "huaweicloud_cs_peering_connect_v1" "peering" {
 name = "terraform_cs_peering_connect_v1_test"
 target_vpc_info {
    vpc id = "${huaweicloud vpc v1.vpc.id}"
  cluster_id = "${huaweicloud_cs_cluster_v1.cluster.id}"
}
resource "huaweicloud_cs_route_v1" "route" {
  cluster_id = "${huaweicloud_cs_cluster_v1.cluster.id}"
 peering_id = "${huaweicloud_cs_peering_connect_v1.peering.id}"
  destination = "${huaweicloud_vpc_subnet_v1.subnet.cidr}"
}
```

The following arguments are supported:

- cluster_id (Required) The id of cloud stream cluster. Changing this parameter will create a new resource.
- destination (Required) Routing destination CIDR. Changing this parameter will create a new resource.
- peering_id (Required) The peering connection id of cloud stream cluster. Changing this parameter will create a new resource.

> huaweicloud_cloudtable_cluster_v2

cloud table cluster management

» Example Usage

» create a CloudTable cluster

```
resource "huaweicloud_networking_secgroup_v2" "secgroup" {
              = "terraform_test_security_group"
  description = "terraform security group acceptance test"
}
resource "huaweicloud_cloudtable_cluster_v2" "cluster" {
  availability_zone = "{{ availability_zone }}"
                   = "terraform-test-cluster"
 name
 rs_num
 security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
 subnet_id
                   = "{{ network id }}"
 vpc_id
                   = "{{ vpc_id }}"
                   = "COMMON"
  storage_type
```

» Argument Reference

- availability_zone (Required) Availability zone (AZ). Changing this parameter will create a new resource.
- name (Required) Cluster name. The value must be between 4 and 64 characters long and start with a letter. Only letters, digits, and hyphens (-) are allowed. It is case insensitive. Changing this parameter will create a new resource
- rs_num (Required) Number of computing units. Value range: 2 to 10. Changing this parameter will create a new resource.
- security_group_id (Required) Security group ID. Changing this parameter will create a new resource.
- storage_type (Required) Storage I/O type. The value are ULTRA-HIGH and COMMON. Changing this parameter will create a new resource.
- subnet_id (Required) Subnet ID. Changing this parameter will create a new resource.
- vpc_id (Required) VPC of the cluster. Changing this parameter will create a new resource.

- enable_iam_auth (Optional) Whether to enable IAM authentication for OpenTSDB. Changing this parameter will create a new resource.
- lemon_num (Optional) Number of Lemon nodes Value range: 2 to 10. Changing this parameter will create a new resource.
- opentsdb_num (Optional) Number of OpenTSDB nodes Value range: 2 to 10. Changing this parameter will create a new resource.
- tags (Optional) Enterprise project information. Structure is documented below. Changing this parameter will create a new resource.

The tags block supports:

- key (Optional) Tag value. Changing this parameter will create a new resource.
- value (Optional) Tag key. Changing this parameter will create a new resource.

» Attributes Reference

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

- created Time when the cluster was created.
- hbase_public_endpoint HBase link of the public network.
- lemon_link Lemon link of the intranet.
- open tsdb link OpenTSDB link of the intranet.
- opentsdb_public_endpoint OpenTSDB link of the public network.
- storage_quota Storage quota.
- used_storage_size Used storage space.
- zookeeper_link ZooKeeper link of the intranet.

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 30 minute.

» Data Source: huaweicloud_cts_tracker_v1

CTS Tracker data source allows access of Cloud Tracker.

» Example Usage

```
variable "bucket_name" {}

data "huaweicloud_cts_tracker_v1" "tracker_v1" {
  bucket_name = "${var.bucket_name}"
}
```

» Argument Reference

The following arguments are supported:

- tracker_name (Optional) The tracker name.
- bucket_name (Optional) The OBS bucket name for a tracker.
- file_prefix_name (Optional) The prefix of a log that needs to be stored in an OBS bucket.
- status (Optional) Status of a tracker.

» Attributes Reference

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

- is_support_smn -Specifies SMN support.
- topic_id The theme of the SMN service.
- operations -The trigger conditions for sending a notification
- is_send_all_key_operation Specifies Typical or All operations for Trigger Condition.
- need_notify_user_list The users using the login function.

» huaweicloud_cts_tracker_v1

Allows you to collect, store, and query cloud resource operation records.

» Example Usage

```
variable "bucket_name" {}
variable "topic_id" {}
resource "huaweicloud_cts_tracker_v1" "tracker_v1" {
```

The following arguments are supported:

- bucket_name (Required) The OBS bucket name for a tracker.
- file_prefix_name (Optional) The prefix of a log that needs to be stored in an OBS bucket.
- is_support_smn (Required) Specifies whether SMN is supported. When the value is false, topic_id and operations can be left empty.
- topic_id (Required)The theme of the SMN service, Is obtained from SMN and in the format of urn:smn:([a-z]|[A-Z]|[0-9]|-){1,32}:([a-z]|[A-Z]|[0-9]|-]_){1,256}.
- operations (Required) Trigger conditions for sending a notification.
- is_send_all_key_operation (Required) When the value is false, operations cannot be left empty.
- need_notify_user_list (Optional) The users using the login function. When these users log in, notifications will be sent.

» Attributes Reference

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

- status The status of a tracker. The value is enabled.
- tracker_name The tracker name. Currently, only tracker system is available.

» Import

CTS tracker can be imported using tracker_name, e.g.

\$ terraform import huaweicloud_cts_tracker_v1.tracker system

» huaweicloud_cdn_domain_v1

cdn domain management

» Example Usage

» create a cdn domain

```
resource "huaweicloud_cdn_domain_v1" "domain_1" {
  name = "${var.domain_name}"
  type = "web"

sources {
  origin = "${var.origin_server}"
  origin_type = "ipaddr"
  active = 1
  }
}
```

» Argument Reference

The following arguments are supported:

- name (Required) The acceleration domain name. Changing this parameter will create a new resource.
- type (Required) The service type. The valid values are 'web', 'download' and 'video'. Changing this parameter will create a new resource.
- sources (Required) An array of one or more objects specifies the domain name of the origin server. The sources object structure is documented below.
- enterprise_project_id (Optional) The enterprise project id. Changing this parameter will create a new resource.

The sources block supports:

- origin (Required) The domain name or IP address of the origin server.
- origin_type (Required) The origin server type. The valid values are 'ipaddr', 'domain', and 'obs_bucket'.
- active (Optional) Whether an origin server is active or standby (1: active; 0: standby). The default value is 1.

The following attributes are exported:

- name See Argument Reference above.
- type See Argument Reference above.
- enterprise_project_id See Argument Reference above.
- sources/origin See Argument Reference above.
- sources/origin_type See Argument Reference above.
- sources/active See Argument Reference above.
- id The acceleration domain name ID.
- cname The CNAME of the acceleration domain name.
- domain_status The status of the acceleration domain name. The available values are 'online', 'offline', 'configuring', 'configure_failed', 'checking', 'check_failed' and 'deleting.'
- service_area The area covered by the acceleration service.

» Import

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

\$ terraform import huaweicloud_cdn_domain_v1.domain_1 fe2462fac09a4a42a76ecc4a1ef542f1

» huaweicloud_dis_partition_v2

Get all the partitions of a stream

» Example Usage

» list all the partitions of a stream

```
data "huaweicloud_dis_partition_v2" "partition" {
   stream_name = "{{    stream_name }}"
}
```

» Argument Reference

• stream_name - (Required) Name of the DIS stream.

The following attributes are exported:

partitions - The information of stream partitions. Structure is documented below.

The partitions block contains:

- id The ID of the partition.
- status The status of the partition.
- hash_range Possible value range of the hash key used by each partition.
- sequence_number_range Sequence number range of each partition...

» huaweicloud_dis_stream_v2

DIS Stream management

» Example Usage

```
» create a stream that type is BLOB
```

```
resource "huaweicloud_dis_stream_v2" "stream" {
   stream_name = "terraform_test_dis_stream"
   partition_count = 1
}
```

» create a stream that type is JSON

» Argument Reference

- partition_count (Required) Number of the expect partitions. NOTE: Each stream can be scaled up and down a total of five times within one hour. After the stream is successfully scaled up or down, it cannot be scaled up or down again within the next one hour.
- stream_name (Required) Name of the DIS stream to be created.

• auto_scale_max_partition_count - (Optional) Maximum number of partition for automatic scaling. Changing this parameter will create a new resource.

- auto_scale_min_partition_count (Optional) Minimum number of partition for automatic scaling. Changing this parameter will create a new resource.
- compression_format (Optional) Data compression type. The value is one of snappy, gzip and zip. Changing this parameter will create a new resource.
- csv_delimiter (Optional) Field separator for CSV file. Changing this parameter will create a new resource.
- data_schema (Optional) User's JOSN, CSV format data schema, described with Avro schema. Changing this parameter will create a new resource.
- data_type (Optional) Data type of the data putting into the stream.
 The value is one of BLOB, JSON and CSV. Changing this parameter will create a new resource.
- retention_period (Optional) The number of hours for which data from the stream will be retained in DIS. Changing this parameter will create a new resource.
- stream_type (Optional) Stream Type. The value is COMMON(means 1M bandwidth) or ADVANCED(means 5M bandwidth). Changing this parameter will create a new resource.
- tags (Optional) List of tags for the newly created DIS stream. Structure is documented below. Changing this parameter will create a new resource.

The tags block supports:

- key (Optional) The key of tag. Changing this parameter will create a new resource.
- value (Optional) The value of tag. Changing this parameter will create a new resource.

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

- created Timestamp at which the DIS stream was created.
- readable_partition_count Total number of readable partitions (including partitions in ACTIVE state only).
- writable_partition_count Total number of writable partitions (including partitions in ACTIVE and DELETED states).

» huaweicloud_dli_queue_v1

queue management

» Example Usage

```
» create a queue
```

```
resource "huaweicloud_dli_queue_v1" "queue" {
  name = "terraform_dli_queue_v1_test"
  cu_count = 4
}
```

» Argument Reference

- cu_count (Required) Minimum number of CUs that are bound to a queue. The value can be 4, 16, or 64. Changing this parameter will create a new resource.
- name (Required) Name of a queue. The name can contain only digits, letters, and underscores (), but cannot contain only digits or start with an underscore (). Changing this parameter will create a new resource.
- description (Optional) Description of a queue. Changing this parameter will create a new resource.
- management_subnet_cidr (Optional) CIDR of the management subnet. Changing this parameter will create a new resource.
- subnet_cidr (Optional) Subnet CIDR. Changing this parameter will create a new resource.

• vpc_cidr - (Optional) VPC CIDR. Changing this parameter will create a new resource.

» Attributes Reference

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

• create_time - Time when a queue is created.

» huaweicloud dws cluster

cluster management

» Example Usage

» Dws Cluster Example

```
resource "huaweicloud_networking_secgroup_v2" "secgroup" {
            = "security_group_2"
 description = "terraform security group"
}
resource "huaweicloud_dws_cluster" "cluster" {
 node_type = "dws.m3.xlarge"
 number_of_node = 3
 network_id = "{{ network_id }}"
 vpc_id = "{{ vpc_id }}"
 security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
 availability_zone = "{{ availability_zone }}"
         = "terraform_dws_cluster_test"
 name
                = "test_cluster_admin"
 user_name
                 = "cluster1230!"
 user_pwd
 timeouts {
   create = "30m"
   delete = "30m"
}
```

The following arguments are supported:

- name (Required) Cluster name, which must be unique and contains 4 to 64 characters, which consist of letters, digits, hyphens (-), or underscores (_) only and must start with a letter.
- network_id (Required) Network ID, which is used for configuring cluster network
- node_type (Required) Node type
- number_of_node (Required) Number of nodes in a cluster. The value ranges from 3 to 32
- security_group_id (Required) ID of a security group. The ID is used for configuring cluster network
- user_name (Required) Administrator username for logging in to a data warehouse cluster The administrator username must: Consist of lowercase letters, digits, or underscores. Start with a lowercase letter or an underscore. Contain 1 to 63 characters. Cannot be a keyword of the DWS database.
- vpc_id (Required) VPC ID, which is used for configuring cluster network
- user_pwd (Required) Administrator password for logging in to a data warehouse cluster A password must conform to the following rules: Contains 8 to 32 characters. Cannot be the same as the username or the username written in reverse order. Contains three types of the following: Lowercase letters Uppercase letters Digits Special characters ~!@#%&*()-_=+|[{}];:,<.>/?
- availability_zone (Optional) AZ in a cluster
- port (Optional) Service port of a cluster (8000 to 10000). The default value is 8000
- public_ip (Optional) A nested object resource Structure is documented below.

The public_ip block supports:

- eip_id (Optional) EIP ID
- public_bind_type (Optional) Binding type of an EIP. The value can be either of the following: auto_assign not_use bind_existing The default value is not_use.

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

- created Cluster creation time. The format is ISO8601:YYYY-MM-DDThh:mm:ssZ
- endpoints View the private network connection information about the cluster. Structure is documented below.
- id Cluster ID
- public_endpoints Public network connection information about the cluster. If the value is not specified, the public network connection information is not used by default Structure is documented below.
- recent_event The recent event number
- status Cluster status, which can be one of the following: CREATING AVAILABLE UNAVAILABLE CREATION FAILED
- sub_status Sub-status of clusters in the AVAILABLE state. The value can be one of the following: NORMAL READONLY REDISTRIBUT-ING REDISTRIBUTION-FAILURE UNBALANCED UNBALANCED | READONLY DEGRADED | DEGRADED | READONLY DEGRADED | UNBALANCED UNBALANCED | REDISTRIBUTION-FAILURE READONLY | REDISTRIBUTION-FAILURE UNBALANCED | READONLY | REDISTRIBUTION-FAILURE DEGRADED | UNBALANCED | REDISTRIBUTION-FAILURE DEGRADED | UNBALANCED | REDISTRIBUTION-FAILURE DEGRADED | UNBALANCED | READONLY | REDISTRIBUTION-FAILURE DEGRADED | UNBALANCED | READONLY | REDISTRIBUTION-FAILURE DEGRADED | UNBALANCED | READONLY | REDISTRIBUTION-FAILURE
- task_status Cluster management task. The value can be one of the following: RESTORING SNAPSHOTTING GROW-ING REBOOTING SETTING_CONFIGURATION CONFIGURING_EXT_DATASOURCE DELETING_EXT_DATASOURCE REBOOT_FAILURE RESIZE_FAILURE
- • updated - Last modification time of a cluster. The format is ISO8601:YYYY-MM-DDThh:mm:ssZ
- version Data warehouse version

The endpoints block contains:

- connect_info (Optional) Private network connection information
- jdbc_url (Optional) JDBC URL. The following is the default format: jdbc:postgresql://< connect_info>/

The public_endpoints block contains:

- jdbc_url (Optional) JDBC URL. The following is the default format: jdbc:postgresql://< public_connect_info>/
- public_connect_info (Optional) Public network connection information

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 10 minute. - delete - Default is 10 minute.

» Import

Cluster can be imported using the following format:

```
$ terraform import huaweicloud_dws_cluster.default {{ resource id}}
```

» huaweicloud_dcs_az_v1

Use this data source to get the ID of an available Huaweicloud dcs az.

» Example Usage

```
data "huaweicloud_dcs_az_v1" "az1" {
  name = "AZ1"
  port = "8004"
  code = "sa-chile-1a"
}
```

» Argument Reference

- name (Required) Indicates the name of an AZ.
- code (Optional) Indicates the code of an AZ.
- port (Required) Indicates the port number of an AZ.

id is set to the ID of the found az. In addition, the following attributes are exported:

- name See Argument Reference above.
- code See Argument Reference above.
- port See Argument Reference above.

» huaweicloud dcs maintainwindow v1

Use this data source to get the ID of an available Huaweicloud dcs maintainwindow.

» Example Usage

```
data "huaweicloud_dcs_maintainwindow_v1" "maintainwindow1" {
  seq = 1
}
```

» Argument Reference

- seq (Required) Indicates the sequential number of a maintenance time window
- begin (Optional) Indicates the time at which a maintenance time window starts.
- end (Required) Indicates the time at which a maintenance time window ends.
- default (Required) Indicates whether a maintenance time window is set to the default time segment.

» Attributes Reference

id is set to the ID of the found maintainwindow. In addition, the following attributes are exported:

- begin See Argument Reference above.
- end See Argument Reference above.
- default See Argument Reference above.

» huaweicloud_dcs_product_v1

Use this data source to get the ID of an available Flexibleengine dcs product.

» Example Usage

» Argument Reference

- engine (Required) Indicates the name of a message engine.
- version (Optional) Indicates the version of a message engine.
- instance_type (Required) Indicates an instance type. Options: "single" and "cluster"
- vm_specification (Optional) Indicates VM specifications.
- storage (Optional) Indicates the message storage space.
- bandwidth (Optional) Indicates the baseline bandwidth of a Kafka instance.
- partition_num (Optional) Indicates the maximum number of topics that can be created for a Kafka instance.
- storage_spec_code (Optional) Indicates an I/O specification.
- io_type (Optional) Indicates an I/O type.
- node_num (Optional) Indicates the number of nodes in a cluster.

» Attributes Reference

id is set to the ID of the found product. In addition, the following attributes are exported:

- engine See Argument Reference above.
- version See Argument Reference above.
- instance_type See Argument Reference above.

- vm_specification See Argument Reference above.
- bandwidth See Argument Reference above.
- partition_num See Argument Reference above.
- storage_spec_code See Argument Reference above.
- io_type See Argument Reference above.
- node_num See Argument Reference above.

» huaweicloud_dcs_instance_v1

Manages a DCS instance in the huaweicloud DCS Service.

» Example Usage

» Automatically detect the correct network

```
resource "huaweicloud_networking_secgroup_v2" "secgroup_1" {
             = "secgroup_1"
 description = "secgroup_1"
}
data "huaweicloud_dcs_az_v1" "az_1" {
 port = "8002"
data "huaweicloud_dcs_product_v1" "product_1" {
 spec_code = "dcs.master_standby"
resource "huaweicloud_dcs_instance_v1" "instance_1" {
                   = "test_dcs_instance"
 engine_version = "3.0.7"
                   = "Huawei_test"
 password
                   = "Redis"
 engine
 capacity
                  = 2
                  = "1477393a-29c9-4de5-843f-18ef51257c7e"
 vpc_id
 security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup_1.id}"
                 = "27d99e17-42f2-4751-818f-5c8c6c03ff15"
 subnet_id
 available_zones = ["${data.huaweicloud_dcs_az_v1.az_1.id}"]
 product_id
                   = "${data.huaweicloud_dcs_product_v1.product_1.id}"
 save_days
                   = 1
                   = "manual"
 backup_type
                   = "00:00-01:00"
 begin_at
                   = "weekly"
 period_type
                   = [1]
 backup_at
 depends_on
                  = ["data.huaweicloud_dcs_product_v1.product_1", "huaweicloud_networking
}
```

- name (Required) Indicates the name of an instance. An instance name starts with a letter, consists of 4 to 64 characters, and supports only letters, digits, and hyphens (-).
- description (Optional) Indicates the description of an instance. It is a character string containing not more than 1024 characters.
- engine (Optional) Indicates a message engine. Options: rabbitmq and kafka. Changing this creates a new instance.
- engine_version (Optional) Indicates the version of a message engine. Changing this creates a new instance.
- capacity (Required) Indicates the Cache capacity. Unit: GB. For a DCS Redis or Memcached instance in single-node or master/standby mode, the cache capacity can be 2 GB, 4 GB, 8 GB, 16 GB, 32 GB, or 64 GB. For a DCS Redis instance in cluster mode, the cache capacity can be 64, 128, 256, 512, or 1024 GB. Changing this creates a new instance.
- partition_num (Optional) This parameter is mandatory when a Kafka instance is created. Indicates the maximum number of topics in a Kafka instance. When specification is 300 MB: 900 When specification is 600 MB: 1800 When specification is 1200 MB: 1800
- access_user (Optional) Username used for accessing a DCS instance after password authentication. A username starts with a letter, consists of 1 to 64 characters, and supports only letters, digits, and hyphens (-). Changing this creates a new instance.
- password (Optional) Password of a DCS instance. The password of a DCS Redis instance must meet the following complexity requirements: Changing this creates a new instance.
- vpc_id (Required) Tenant's VPC ID. For details on how to create VPCs, see the Virtual Private Cloud API Reference. Changing this creates a new instance.
- security_group_id (Required) Tenant's security group ID. For details
 on how to create security groups, see the Virtual Private Cloud API Reference.
- subnet_id (Required) Subnet ID. For details on how to create subnets, see the Virtual Private Cloud API Reference. Changing this creates a new instance.
- available_zones (Required) IDs of the AZs where cache nodes reside. For details on how to query AZs, see Querying AZ Information. Changing

this creates a new instance.

- product_id (Required) Product ID used to differentiate DCS instance types. Changing this creates a new instance.
- maintain_begin (Optional) Indicates the time at which a maintenance time window starts. Format: HH:mm:ss. The start time and end time of a maintenance time window must indicate the time segment of a supported maintenance time window. For details, see section Querying Maintenance Time Windows. The start time must be set to 22:00, 02:00, 06:00, 10:00, 14:00, or 18:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_begin is left blank, parameter maintain_end is also blank. In this case, the system automatically allocates the default start time 02:00.
- maintain_end (Optional) Indicates the time at which a maintenance time window ends. Format: HH:mm:ss. The start time and end time of a maintenance time window must indicate the time segment of a supported maintenance time window. For details, see section Querying Maintenance Time Windows. The end time is four hours later than the start time. For example, if the start time is 22:00, the end time is 02:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_end is left blank, parameter maintain_begin is also blank. In this case, the system automatically allocates the default end time 06:00.
- save_days (Optional) Retention time. Unit: day. Range: 1–7. Changing this creates a new instance.
- backup_type (Optional) Backup type. Options: auto: automatic backup. manual: manual backup. Changing this creates a new instance.
- begin_at (Optional) Time at which backup starts. "00:00-01:00" indicates that backup starts at 00:00:00. Changing this creates a new instance.
- period_type (Optional) Interval at which backup is performed. Currently, only weekly backup is supported. Changing this creates a new instance.
- backup_at (Optional) Day in a week on which backup starts. Range: 1-7. Where: 1 indicates Monday; 7 indicates Sunday. Changing this creates a new instance.

» Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- description See Argument Reference above.
- engine See Argument Reference above.

- engine_version See Argument Reference above.
- capacity See Argument Reference above.
- access user See Argument Reference above.
- password See Argument Reference above.
- vpc_id See Argument Reference above.
- vpc_name Indicates the name of a vpc.
- security_group_id See Argument Reference above.
- security_group_name Indicates the name of a security group.
- subnet_id See Argument Reference above.
- subnet name Indicates the name of a subnet.
- available_zones See Argument Reference above.
- product_id See Argument Reference above.
- maintain_begin See Argument Reference above.
- maintain end See Argument Reference above.
- save_days See Argument Reference above.
- backup_type See Argument Reference above.
- begin_at See Argument Reference above.
- period_type See Argument Reference above.
- backup_at See Argument Reference above.
- order_id An order ID is generated only in the monthly or yearly billing mode. In other billing modes, no value is returned for this parameter.
- port Port of the cache node.
- resource_spec_code Resource specifications. dcs.single_node: indicates a DCS instance in single-node mode. dcs.master_standby: indicates a DCS instance in master/standby mode. dcs.cluster: indicates a DCS instance in cluster mode.
- used_memory Size of the used memory. Unit: MB.
- internal_version Internal DCS version.
- max_memory Overall memory size. Unit: MB.
- user id Indicates a user ID.
- ip Cache node's IP address in tenant's VPC.

» huaweicloud_dms_az_v1

Use this data source to get the ID of an available HuaweiCloud dms az.

» Example Usage

```
data "huaweicloud_dms_az_v1" "az1" {
  name = " 1"
  port = "8002"
  code = "cn-north-1a"
}
```

- name (Required) Indicates the name of an AZ.
- code (Optional) Indicates the code of an AZ.
- port (Required) Indicates the port number of an AZ.

» Attributes Reference

id is set to the ID of the found az. In addition, the following attributes are exported:

- name See Argument Reference above.
- code See Argument Reference above.
- port See Argument Reference above.

» huaweicloud_dms_maintainwindow_v1

Use this data source to get the ID of an available HuaweiCloud dms maintain-window.

» Example Usage

```
data "huaweicloud_dms_maintainwindow_v1" "maintainwindow1" {
  seq = 1
}
```

» Argument Reference

- seq (Required) Indicates the sequential number of a maintenance time window.
- begin (Optional) Indicates the time at which a maintenance time window starts
- end (Required) Indicates the time at which a maintenance time window ends.
- default (Required) Indicates whether a maintenance time window is set to the default time segment.

id is set to the ID of the found maintainwindow. In addition, the following attributes are exported:

- begin See Argument Reference above.
- end See Argument Reference above.
- default See Argument Reference above.

» huaweicloud_dms_product_v1

Use this data source to get the ID of an available HuaweiCloud dms product.

» Example Usage

» Argument Reference

- engine (Required) Indicates the name of a message engine.
- version (Optional) Indicates the version of a message engine.
- instance_type (Required) Indicates an instance type. Options: "single" and "cluster"
- vm_specification (Optional) Indicates VM specifications.
- storage (Optional) Indicates the message storage space.
- bandwidth (Optional) Indicates the baseline bandwidth of a Kafka instance.
- partition_num (Optional) Indicates the maximum number of topics that can be created for a Kafka instance.
- storage_spec_code (Optional) Indicates an I/O specification.
- io_type (Optional) Indicates an I/O type.

• node_num - (Optional) Indicates the number of nodes in a cluster.

» Attributes Reference

id is set to the ID of the found product. In addition, the following attributes are exported:

- engine See Argument Reference above.
- version See Argument Reference above.
- instance_type See Argument Reference above.
- vm_specification See Argument Reference above.
- bandwidth See Argument Reference above.
- partition_num See Argument Reference above.
- storage_spec_code See Argument Reference above.
- io_type See Argument Reference above.
- node_num See Argument Reference above.

» huaweicloud_dms_group_v1

Manages a DMS group in the huaweicloud DMS Service.

» Example Usage

» Automatically detect the correct network

» Argument Reference

- name (Required) Indicates the unique name of a group. A string of 1 to 64 characters that contain a-z, A-Z, 0-9, hyphens (-), and underscores (_). The name cannot be modified once specified.
- queue_id (Required) Indicates the ID of a specified queue.

The following attributes are exported:

- name See Argument Reference above.
- queue_id Indicates the ID of a queue.
- redrive_policy Indicates whether to enable dead letter messages.
- produced_messages Indicates the total number of messages (not including the messages that have expired and been deleted) in a queue.
- consumed_messages Indicates the total number of messages that are successfully consumed.
- available_messages Indicates the accumulated number of messages that can be consumed.
- produced_deadletters Indicates the total number of dead letter messages generated by the consumer group.
- available_deadletters Indicates the accumulated number of dead letter messages that have not been consumed.

» huaweicloud dms instance v1

Manages a DMS instance in the huaweicloud DMS Service.

» Example Usage

» Automatically detect the correct network

```
resource "huaweicloud_dms_instance_v1" "instance_1" {
                    = "%s"
 name
                    = "rabbitmg"
  engine
                    = "${data.huaweicloud_dms_product_v1.product_1.storage}"
  storage_space
  access_user
                    = "Dmstest@123"
  password
                    = "%s"
  vpc_id
  security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup_1.id}"
  subnet id
  available_zones
                  = ["${data.huaweicloud_dms_az_v1.az_1.id}"]
                    = "${data.huaweicloud_dms_product_v1.product_1.id}"
 product id
  engine_version
                    = "${data.huaweicloud_dms_product_v1.product_1.version}"
  depends_on
                    = ["data.huaweicloud_dms_product_v1.product_1", "huaweicloud_networking
}
```

- name (Required) Indicates the name of an instance. An instance name starts with a letter, consists of 4 to 64 characters, and supports only letters, digits, and hyphens (-).
- description (Optional) Indicates the description of an instance. It is a character string containing not more than 1024 characters.
- engine (Optional) Indicates a message engine. Options: rabbitmq and kafka.
- engine version (Optional) Indicates the version of a message engine.
- specification (Optional) This parameter is mandatory if the engine is kafka. Indicates the baseline bandwidth of a Kafka instance, that is, the maximum amount of data transferred per unit time. Unit: byte/s. Options: 300 MB, 600 MB, 1200 MB.
- storage_space (Required) Indicates the message storage space. Value range: Single-node RabbitMQ instance: 100–90000 GB Cluster RabbitMQ instance: 100 GB x Number of nodes to 90000 GB, 200 GB x Number of nodes to 90000 GB, 300 GB x Number of nodes to 90000 GB Kafka instance with specification being 300 MB: 1200–90000 GB Kafka instance with specification being 600 MB: 2400–90000 GB Kafka instance with specification being 1200 MB: 4800–90000 GB
- partition_num (Optional) This parameter is mandatory when a Kafka instance is created. Indicates the maximum number of topics in a Kafka instance. When specification is 300 MB: 900 When specification is 600 MB: 1800 When specification is 1200 MB: 1800

- access_user (Optional) Indicates a username. If the engine is rabbitmq, this parameter is mandatory. If the engine is kafka, this parameter is optional. A username consists of 4 to 64 characters and supports only letters, digits, and hyphens (-).
- password (Optional) If the engine is rabbitmq, this parameter is mandatory. If the engine is kafka, this parameter is mandatory when ssl_enable is true and is invalid when ssl_enable is false. Indicates the password of an instance. An instance password must meet the following complexity requirements: Must be 8 to 32 characters long. Must contain at least 2 of the following character types: lowercase letters, uppercase letters, digits, and special characters ('~!@#\$%&*()-_=+|[{}]:'",<.>/?).
- vpc_id (Required) Indicates the ID of a VPC.
- security_group_id (Required) Indicates the ID of a security group.
- subnet_id (Required) Indicates the ID of a subnet.
- available_zones (Required) Indicates the ID of an AZ. The parameter value can not be left blank or an empty array. For details, see section Querying AZ Information.
- product_id (Required) Indicates a product ID.
- maintain_begin (Optional) Indicates the time at which a maintenance time window starts. Format: HH:mm:ss. The start time and end time of a maintenance time window must indicate the time segment of a supported maintenance time window. For details, see section Querying Maintenance Time Windows. The start time must be set to 22:00, 02:00, 06:00, 10:00, 14:00, or 18:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_begin is left blank, parameter maintain_end is also blank. In this case, the system automatically allocates the default start time 02:00.
- maintain_end (Optional) Indicates the time at which a maintenance time window ends. Format: HH:mm:ss. The start time and end time of a maintenance time window must indicate the time segment of a supported maintenance time window. For details, see section Querying Maintenance Time Windows. The end time is four hours later than the start time. For example, if the start time is 22:00, the end time is 02:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_end is left blank, parameter maintain_begin is also blank. In this case, the system automatically allocates the default end time 06:00.
- enable_publicip (Optional) Indicates whether to enable public access to a RabbitMQ instance. true: enable, false: disable
- publicip_id (Optional) Indicates the ID of the elastic IP address (EIP) bound to a RabbitMQ instance. This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).

• storage_spec_code - (Optional) Indicates the storage I/O specification. For details on how to select a disk type, see Disk Types and Disk Performance. Options for a RabbitMQ instance: dms.physical.storage.normal dms.physical.storage.high dms.physical.storage.ultra Options for a Kafka instance: When specification is 300 MB: dms.physical.storage.high or dms.physical.storage.ultra When specification is 600 MB: dms.physical.storage.ultra When specification is 1200 MB: dms.physical.storage.ultra

» Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- description See Argument Reference above.
- engine See Argument Reference above.
- engine_version See Argument Reference above.
- specification See Argument Reference above.
- storage_space Indicates the time when a instance is created.
- partition_num See Argument Reference above.
- access_user See Argument Reference above.
- password See Argument Reference above.
- vpc_id See Argument Reference above.
- security_group_id See Argument Reference above.
- security_group_name Indicates the name of a security group.
- subnet_id See Argument Reference above.
- subnet_name Indicates the name of a subnet.
- subnet cidr Indicates a subnet segment.
- available zones See Argument Reference above.
- product_id See Argument Reference above.
- maintain begin See Argument Reference above.
- maintain_end See Argument Reference above.
- enable_publicip See Argument Reference above.
- publicip_id See Argument Reference above.
- storage_spec_code See Argument Reference above.
- used_storage_space Indicates the used message storage space. Unit:
 GB
- connect_address Indicates the IP address of an instance.
- port Indicates the port number of an instance.
- status Indicates the status of an instance. For details, see section Instance Status.
- instance_id Indicates the ID of an instance.
- resource_spec_code Indicates a resource specifications identifier.
- type Indicates an instance type. Options: "single" and "cluster"
- created_at Indicates the time when an instance is created. The time is
 in the format of timestamp, that is, the offset milliseconds from 1970-01-01

00:00:00 UTC to the specified time.

- user_id Indicates a user ID.
- user_name Indicates a username.

» huaweicloud_dms_queue_v1

Manages a DMS queue in the huaweicloud DMS Service.

» Example Usage

» Automatically detect the correct network

» Argument Reference

- name (Required) Indicates the unique name of a queue. A string of 1 to 64 characters that contain a-z, A-Z, 0-9, hyphens (-), and underscores (_). The name cannot be modified once specified.
- queue_mode (Optional) Indicates the queue type. It only support 'NOR-MAL' and 'FIFO'. NORMAL: Standard queue. Best-effort ordering. Messages might be retrieved in an order different from which they were sent. Select standard queues when throughput is important. FIFO: First-In-First-out (FIFO) queue. FIFO delivery. Messages are retrieved in the order they were sent. Select FIFO queues when the order of messages is important. Default value: NORMAL.
- description (Optional) Indicates the basic information about a queue. The queue description must be 0 to 160 characters in length, and does not contain angle brackets (<) and (>).
- redrive_policy (Optional) Indicates whether to enable dead letter messages. Dead letter messages indicate messages that cannot be normally consumed. The redrive_policy should be set to 'enable' or 'disable'. The default value is 'disable'.

• max_consume_count - (Optional) This parameter is mandatory only when redrive_policy is set to enable. This parameter indicates the maximum number of allowed message consumption failures. When a message fails to be consumed after the number of consumption attempts of this message reaches this value, DMS stores this message into the dead letter queue. The max_consume_count value range is 1–100.

» Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- queue mode See Argument Reference above.
- description See Argument Reference above.
- redrive policy See Argument Reference above.
- max_consume_count See Argument Reference above.
- created Indicates the time when a queue is created.
- reservation Indicates the retention period (unit: min) of a message in a queue.
- max_msg_size_byte Indicates the maximum message size (unit: byte) that is allowed in queue.
- produced_messages Indicates the total number of messages (not including the messages that have expired and been deleted) in a queue.
- group_count Indicates the total number of consumer groups in a queue.

» huaweicloud_dns_recordset_v2

Manages a DNS record set in the HuaweiCloud DNS Service.

» Example Usage

» Automatically detect the correct network

```
name = "rs.example.com."
description = "An example record set"
ttl = 3000
type = "A"
records = ["10.0.0.1"]
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 DNS client. If omitted, the region argument of the provider is used. Changing this creates a new DNS record set.
- zone_id (Required) The ID of the zone in which to create the record set. Changing this creates a new DNS record set.
- name (Required) The name of the record set. Note the . at the end of the name. Changing this creates a new DNS record set.
- type (Optional) The type of record set. The options include A, AAAA, MX, CNAME, TXT, NS, SRV, and PTR. Changing this creates a new DNS record set.
- ttl (Optional) The time to live (TTL) of the record set (in seconds). The value range is 300–2147483647. The default value is 300.
- description (Optional) A description of the record set.
- records (Required) An array of DNS records.
- value_specs (Optional) Map of additional options. Changing this creates a new record set.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- type See Argument Reference above.
- ttl See Argument Reference above.
- description See Argument Reference above.
- records See Argument Reference above.
- zone_id See Argument Reference above.
- value_specs See Argument Reference above.

» Import

This resource can be imported by specifying the zone ID and recordset ID, separated by a forward slash.

\$ terraform import huaweicloud_dns_recordset_v2.recordset_1 <zone_id>/<recordset_id>

» huaweicloud dns zone v2

Manages a DNS zone in the HuaweiCloud DNS Service.

» Example Usage

» Create a public DNS zone

» Create a private DNS zone

» Argument Reference

- region (Optional) The region in which to obtain the V2 Compute client. Keypairs are associated with accounts, but a Compute client is needed to create one. If omitted, the region argument of the provider is used. Changing this creates a new DNS zone. Changing this creates a new DNS zone.
- name (Required) The name of the zone. Note the . at the end of the name. Changing this creates a new DNS zone.
- email (Optional) The email contact for the zone record.
- zone_type (Optional) The type of zone. Can either be public or private. Changing this creates a new DNS zone.
- router (Optional) Router configuration block which is required if zone_type is private. The router structure is documented below.
- ttl (Optional) The time to live (TTL) of the zone.
- description (Optional) A description of the zone.
- value_specs (Optional) Map of additional options. Changing this creates a new DNS zone.

The router block supports:

- router_id (Required) The router UUID.
- router_region (Required) The region of the router.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- email See Argument Reference above.
- zone_type See Argument Reference above.
- ttl See Argument Reference above.
- description See Argument Reference above.
- masters An array of master DNS servers.
- value_specs See Argument Reference above.

» Import

This resource can be imported by specifying the zone ID:

\$ terraform import huaweicloud_dns_zone_v2.zone_1 <zone_id>

» huaweicloud_compute_availability_zones_v2

Use this data source to get a list of availability zones from HuaweiCloud

» Example Usage

data "huaweicloud_compute_availability_zones_v2" "zones" {}

» Argument Reference

• state - (Optional) The state of the availability zones to match, default ("available").

» Attributes Reference

id is set to hash of the returned zone list. In addition, the following attributes are exported:

• names - The names of the availability zones, ordered alphanumerically, that match the queried state

> huaweicloud_compute_floatingip_v2

Manages a V2 floating IP resource within HuaweiCloud Nova (compute) that can be used for compute instances.

Please note that managing floating IPs through the HuaweiCloud Compute API has been deprecated. Unless you are using an older HuaweiCloud environment, it is recommended to use the huaweiCloud_networking_floatingip_v2 resource instead, which uses the HuaweiCloud Networking API.

» Example Usage

```
resource "huaweicloud_compute_floatingip_v2" "floatip_1" {
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Compute client. A Compute client is needed to create a floating IP that can be used with a compute instance. If omitted, the region argument of the provider is used. Changing this creates a new floating IP (which may or may not have a different address).
- pool (Optional) The name of the pool from which to obtain the floating IP. Only admin_external_net is valid. Changing this creates a new floating IP.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- pool See Argument Reference above.
- address The actual floating IP address itself.
- fixed_ip The fixed IP address corresponding to the floating IP.
- instance_id UUID of the compute instance associated with the floating IP.

» Import

Floating IPs can be imported using the id, e.g.

\$ terraform import huaweicloud_compute_floatingip_v2.floatip_1 89c60255-9bd6-460c-822a-e2b9

» huaweicloud_compute_floatingip_associate_v2

Associate a floating IP to an instance. This can be used instead of the floating_ip options in huaweicloud_compute_instance_v2.

» Example Usage

» Automatically detect the correct network

```
resource "huaweicloud_networking_floatingip_v2" "fip_1" {
 pool = "my_pool"
resource "huaweicloud_compute_floatingip_associate_v2" "fip_1" {
  floating_ip = "${huaweicloud_networking_floatingip_v2.fip_1.address}"
  instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
» Explicitly set the network to attach to
resource "huaweicloud_compute_instance_v2" "instance_1" {
                  = "instance 1"
                  = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 image_id
 flavor_id
 key_pair
                  = "my_key_pair_name"
 security_groups = ["default"]
 network {
   name = "my_network"
 network {
   name = "default"
 }
}
resource "huaweicloud_networking_floatingip_v2" "fip_1" {
  pool = "my_pool"
resource "huaweicloud_compute_floatingip_associate_v2" "fip_1" {
 floating_ip = "${huaweicloud_networking_floatingip_v2.fip_1.address}"
 instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
            = "${huaweicloud_compute_instance_v2.instance_1.network.1.fixed_ip_v4}"
}
```

» Argument Reference

The following arguments are supported:

• region - (Optional) The region in which to obtain the V2 Compute client. Keypairs are associated with accounts, but a Compute client is needed to create one. If omitted, the region argument of the provider is used. Changing this creates a new floatingip_associate.

- floating_ip (Required) The floating IP to associate.
- instance_id (Required) The instance to associte the floating IP with.
- fixed_ip (Optional) The specific IP address to direct traffic to.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- floating_ip See Argument Reference above.
- instance_id See Argument Reference above.
- fixed_ip See Argument Reference above.

» Import

This resource can be imported by specifying all three arguments, separated by a forward slash:

 $\$\ terraform\ import\ huaweicloud_compute_floatingip_associate_v2.fip_1\ <floating_ip>/<instance of the control of the contr$

> huaweicloud_compute_instance_v2

Manages a V2 VM instance resource within HuaweiCloud.

» Example Usage

» Basic Instance

```
network {
   uuid = "55534eaa-533a-419d-9b40-ec427ea7195a"
 }
}
» Instance With Attached Volume
resource "huaweicloud_blockstorage_volume_v2" "myvol" {
 name = "myvol"
 size = 1
}
resource "huaweicloud_compute_instance_v2" "myinstance" {
 name
                  = "myinstance"
 image_id
                  = "ad091b52-742f-469e-8f3c-fd81cadf0743"
                  = "3"
 flavor_id
                   = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
 availability_zone = "az"
 network {
   uuid = "55534eaa-533a-419d-9b40-ec427ea7195a"
 }
}
resource "huaweicloud_compute_volume_attach_v2" "attached" {
  instance_id = "${huaweicloud_compute_instance_v2.myinstance.id}"
 volume_id = "${huaweicloud_blockstorage_volume_v2.myvol.id}"
}
» Boot From Volume
resource "huaweicloud_compute_instance_v2" "boot-from-volume" {
 name
                   = "boot-from-volume"
                  = "3"
 flavor_id
                 = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
 availability_zone = "az"
 block_device {
                         = "<image-id>"
   uuid
   source_type
                        = "image"
   volume_size
                         = 5
```

```
boot_index
                          = 0
                         = "volume"
   destination_type
    delete_on_termination = true
 }
 network {
    uuid = "55534eaa-533a-419d-9b40-ec427ea7195a"
» Boot From an Existing Volume
resource "huaweicloud_blockstorage_volume_v1" "myvol" {
          = "myvol"
 size
          = 5
  image_id = "<image-id>"
}
resource "huaweicloud_compute_instance_v2" "boot-from-volume" {
                   = "bootfromvolume"
                   = "3"
 flavor_id
                   = "my_key_pair_name"
 key_pair
  security_groups = ["default"]
 availability_zone = "az"
 block_device {
                          = "${huaweicloud_blockstorage_volume_v1.myvol.id}"
   uuid
                         = "volume"
   source_type
   boot_index
   destination_type
                         = "volume"
   delete_on_termination = true
 }
 network {
   uuid = "55534eaa-533a-419d-9b40-ec427ea7195a"
 }
}
» Boot Instance, Create Volume, and Attach Volume as a Block De-
vice
resource "huaweicloud_compute_instance_v2" "instance_1" {
                   = "instance_1"
 name
  image_id
                   = "<image-id>"
```

```
flavor_id
                   = "3"
                   = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
 availability_zone = "az"
 block_device {
   uuid
                         = "<image-id>"
                        = "image"
   source_type
   destination_type
                        = "local"
   boot_index
   delete_on_termination = true
 }
 block device {
   source_type
                         = "blank"
                        = "volume"
   destination_type
   volume_size
                         = 1
   boot_index
   delete_on_termination = true
}
» Boot Instance and Attach Existing Volume as a Block Device
resource "huaweicloud_blockstorage_volume_v2" "volume_1" {
 name = "volume_1"
 size = 1
}
resource "huaweicloud_compute_instance_v2" "instance_1" {
                 = "instance 1"
                 = "<image-id>"
 image_id
                  = "3"
 flavor_id
                   = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
 availability_zone = "az"
 block_device {
   uuid
                         = "<image-id>"
                         = "image"
   source_type
   destination_type
                        = "local"
   boot_index
   delete_on_termination = true
 }
```

```
block_device {
                         = "${huaweicloud_blockstorage_volume_v2.volume_1.id}"
    uuid
                        = "volume"
    source_type
                        = "volume"
   destination_type
   boot_index
   delete_on_termination = true
}
» Instance With Multiple Networks
resource "huaweicloud_networking_floatingip_v2" "myip" {
 pool = "admin_external_net"
resource "huaweicloud_compute_instance_v2" "multi-net" {
                   = "multi-net"
                  = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 image_id
                  = "3"
 flavor_id
 key_pair
                  = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"
 network {
   uuid = "55534eaa-533a-419d-9b40-ec427ea7195a"
 network {
   name = "my_second_network"
 }
}
resource "huaweicloud_compute_floatingip_associate_v2" "myip" {
  floating_ip = "${huaweicloud_networking_floatingip_v2.myip.address}"
  instance_id = "${huaweicloud_compute_instance_v2.multi-net.id}"
 fixed_ip = "${huaweicloud_compute_instance_v2.multi-net.network.1.fixed_ip_v4}"
}
» Instance with Multiple Ephemeral Disks
resource "huaweicloud_compute_instance_v2" "multi-eph" {
 name
                   = "multi_eph"
                   = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  image_id
                   = "3"
  flavor_id
```

```
= "my_key_pair_name"
 key_pair
  security_groups = ["default"]
  availability_zone = "az"
 block_device {
    boot_index
    delete_on_termination = true
                       = "local"
    destination_type
                         = "image"
    source_type
   uuid
                         = "<image-id>"
 block_device {
   boot index
                         = -1
   delete_on_termination = true
                     = "local"
    destination_type
                         = "blank"
    source_type
                         = 1
   volume_size
 }
 block_device {
    boot_index
   delete_on_termination = true
                     = "local"
   destination_type
                         = "blank"
    source_type
   volume_size
                         = 1
 }
}
» Instance with User Data (cloud-init)
resource "huaweicloud_compute_instance_v2" "instance_1" {
                   = "basic"
                   = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 image_id
 flavor_id
                   = "3"
                   = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
 availability_zone = "az"
                   = "#cloud-config\nhostname: instance_1.example.com\nfqdn: instance_1.exa
 user_data
 network {
   uuid = "55534eaa-533a-419d-9b40-ec427ea7195a"
 }
}
```

user_data can come from a variety of sources: inline, read in from the file function, or the template_cloudinit_config resource.

» Argument Reference

- region (Optional) The region in which to create the server instance. If omitted, the region argument of the provider is used. Changing this creates a new server.
- name (Required) A unique name for the resource.
- image_id (Optional; Required if image_name is empty and not booting from a volume. Do not specify if booting from a volume.) The image ID of the desired image for the server. Changing this creates a new server.
- image_name (Optional; Required if image_id is empty and not booting from a volume. Do not specify if booting from a volume.) The name of the desired image for the server. Changing this creates a new server.
- flavor_id (Optional; Required if flavor_name is empty) The flavor ID of the desired flavor for the server. Changing this resizes the existing server.
- flavor_name (Optional; Required if flavor_id is empty) The name of the desired flavor for the server. Changing this resizes the existing server.
- user_data (Optional) The user data to provide when launching the instance. Changing this creates a new server.
- security_groups (Optional) An array of one or more security group names to associate with the server. Changing this results in adding/removing security groups from the existing server. *Note*: When attaching the instance to networks using Ports, place the security groups on the Port and not the instance.
- availability_zone (Required) The availability zone in which to create the server. Please refer to https://developer.huaweicloud.com/endpoint for the values. Changing this creates a new server.
- network (Optional) An array of one or more networks to attach to the instance. The network object structure is documented below. Changing this creates a new server.
- metadata (Optional) Metadata key/value pairs to make available from within the instance. Changing this updates the existing server metadata.
- config_drive (Optional) Whether to use the config_drive feature to configure the instance. Changing this creates a new server.

- admin_pass (Optional) The administrative password to assign to the server. Changing this changes the root password on the existing server.
- key_pair (Optional) The name of a key pair to put on the server. The key pair must already be created and associated with the tenant's account. Changing this creates a new server.
- block_device (Optional) Configuration of block devices. The block_device structure is documented below. Changing this creates a new server. You can specify multiple block devices which will create an instance with multiple disks. This configuration is very flexible, so please see the following reference for more information.
- scheduler_hints (Optional) Provide the Nova scheduler with hints on how the instance should be launched. The available hints are described below.
- stop_before_destroy (Optional) Whether to try stop instance gracefully before destroying it, thus giving chance for guest OS daemons to stop correctly. If instance doesn't stop within timeout, it will be destroyed anyway.

The network block supports:

- uuid (Required unless port or name is provided) The network UUID to attach to the server. Changing this creates a new server.
- name (Required unless unid or port is provided) The human-readable name of the network. Changing this creates a new server.
- port (Required unless unid or name is provided) The port UUID of a network to attach to the server. Changing this creates a new server.
- fixed_ip_v4 (Optional) Specifies a fixed IPv4 address to be used on this network. Changing this creates a new server.
- fixed_ip_v6 (Optional) Specifies a fixed IPv6 address to be used on this network. Changing this creates a new server.
- access_network (Optional) Specifies if this network should be used for provisioning access. Accepts true or false. Defaults to false.

The block_device block supports:

- uuid (Required unless source_type is set to "blank") The UUID of the image, volume, or snapshot. Changing this creates a new server.
- source_type (Required) The source type of the device. Must be one of "blank", "image", "volume", or "snapshot". Changing this creates a new server.
- volume_size The size of the volume to create (in gigabytes). Required in the following combinations: source=image and destination=volume,

- source=blank and destination=local, and source=blank and destination=volume. Changing this creates a new server.
- boot_index (Optional) The boot index of the volume. It defaults to 0. Changing this creates a new server.
- destination_type (Optional) The type that gets created. Possible values are "volume" and "local". Changing this creates a new server.
- delete_on_termination (Optional) Delete the volume / block device upon termination of the instance. Defaults to false. Changing this creates a new server.

The scheduler_hints block supports:

- group (Optional) A UUID of a Server Group. The instance will be placed into that group.
- different_host (Optional) A list of instance UUIDs. The instance will be scheduled on a different host than all other instances.
- same_host (Optional) A list of instance UUIDs. The instance will be scheduled on the same host of those specified.
- query (Optional) A conditional query that a compute node must pass in order to host an instance.
- target_cell (Optional) The name of a cell to host the instance.
- build_near_host_ip (Optional) An IP Address in CIDR form. The instance will be placed on a compute node that is in the same subnet.
 - tenancy (Optional) The tenancy specifies whether the ECS is to be created on a Dedicated Host (DeH) or in a shared pool.
 - deh_id (Optional) The ID of DeH. This parameter takes effect only when the value of tenancy is dedicated.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- access_ip_v4 The first detected Fixed IPv4 address or the Floating IP.
- access_ip_v6 The first detected Fixed IPv6 address.
- metadata See Argument Reference above.
- security_groups See Argument Reference above.
- flavor_id See Argument Reference above.
- flavor_name See Argument Reference above.
- network/uuid See Argument Reference above.
- network/name See Argument Reference above.

- network/port See Argument Reference above.
- network/fixed_ip_v4 The Fixed IPv4 address of the Instance on that network.
- network/fixed_ip_v6 The Fixed IPv6 address of the Instance on that network.
- network/mac The MAC address of the NIC on that network.
- volume_attached/volume_id The volume id on that attachment.
- volume_attached/pci_address The volume pci address on that attachment
- volume_attached/boot_index The volume boot index on that attachment
- volume_attached/size The volume size on that attachment.
- all_metadata Contains all instance metadata, even metadata not set by Terraform.

» Notes

» Multiple Ephemeral Disks

It's possible to specify multiple block_device entries to create an instance with multiple ephemeral (local) disks. In order to create multiple ephemeral disks, the sum of the total amount of ephemeral space must be less than or equal to what the chosen flavor supports.

The following example shows how to create an instance with multiple ephemeral disks:

```
resource "huaweicloud_compute_instance_v2" "foo" {
                  = "terraform-test"
 name
  security_groups = ["default"]
  block_device {
    boot_index
                          = 0
    delete_on_termination = true
   destination_type
                         = "local"
    source_type
                          = "image"
                          = "<image uuid>"
    uuid
 }
 block device {
    boot_index
                          = -1
    delete_on_termination = true
    destination_type
                        = "local"
    source_type
                          = "blank"
    volume_size
                          = 1
```

» Instances and Ports

Neutron Ports are a great feature and provide a lot of functionality. However, there are some notes to be aware of when mixing Instances and Ports:

- When attaching an Instance to one or more networks using Ports, place the security groups on the Port and not the Instance. If you place the security groups on the Instance, the security groups will not be applied upon creation, but they will be applied upon a refresh. This is a known HuaweiCloud bug.
- Network IP information is not available within an instance for networks that are attached with Ports. This is mostly due to the flexibility Neutron Ports provide when it comes to IP addresses. For example, a Neutron Port can have multiple Fixed IP addresses associated with it. It's not possible to know which single IP address the user would want returned to the Instance's state information. Therefore, in order for a Provisioner to connect to an Instance via it's network Port, customize the connection information:

» huaweicloud_compute_interface_attach_v2

Attaches a Network Interface (a Port) to an Instance using the HuaweiCloud Compute (Nova) v2 API.

» Example Usage

» Basic Attachment

» Attachment Specifying a Fixed IP

resource "huaweicloud_networking_network_v2" "network_1" {

```
= "network_1"
  admin_state_up = "true"
}
resource "huaweicloud_compute_instance_v2" "instance_1" {
                 = "instance_1"
  security_groups = ["default"]
}
resource "huaweicloud_compute_interface_attach_v2" "ai_1" {
  instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
 network_id = "${huaweicloud_networking_port_v2.network_1.id}"
            = "10.0.10.10"
 fixed ip
}
» Attachment Using an Existing Port
resource "huaweicloud_networking_network_v2" "network_1" {
                = "network 1"
  admin_state_up = "true"
}
resource "huaweicloud_networking_port_v2" "port_1" {
                = "port_1"
 network_id
                = "${huaweicloud_networking_network_v2.network_1.id}"
 admin_state_up = "true"
}
resource "huaweicloud_compute_instance_v2" "instance_1" {
                 = "instance 1"
  security_groups = ["default"]
resource "huaweicloud_compute_interface_attach_v2" "ai_1" {
  instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
 port_id = "${huaweicloud_networking_port_v2.port_1.id}"
}
» Attaching Multiple Interfaces
resource "huaweicloud_networking_network_v2" "network_1" {
                 = "network_1"
  admin_state_up = "true"
```

```
}
resource "huaweicloud networking port v2" "ports" {
                 = 2
  count
 name
                 = "${format("port-%02d", count.index + 1)}"
                 = "${huaweicloud_networking_network_v2.network_1.id}"
 \mathtt{network\_id}
  admin_state_up = "true"
}
resource "huaweicloud_compute_instance_v2" "instance_1" {
                  = "instance 1"
  security_groups = ["default"]
}
resource "huaweicloud_compute_interface_attach_v2" "attachments" {
  instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
            = "${huaweicloud_networking_port_v2.ports.*.id[count.index]}"
}
Note that the above example will not guarantee that the ports are attached in a
deterministic manner. The ports will be attached in a seemingly random order.
If you want to ensure that the ports are attached in a given order, create explicit
dependencies between the ports, such as:
resource "huaweicloud networking network v2" "network 1" {
                 = "network 1"
  admin_state_up = "true"
}
resource "huaweicloud_networking_port_v2" "ports" {
  count
                 = "${format("port-%02d", count.index + 1)}"
 name
 network id
                 = "${huaweicloud_networking_network_v2.network_1.id}"
  admin_state_up = "true"
resource "huaweicloud_compute_instance_v2" "instance_1" {
                  = "instance_1"
  security_groups = ["default"]
}
resource "huaweicloud_compute_interface_attach_v2" "ai_1" {
  instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
             = "${huaweicloud networking port v2.ports.*.id[0]}"
}
```

```
resource "huaweicloud_compute_interface_attach_v2" "ai_2" {
  instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
  port_id = "${huaweicloud_networking_port_v2.ports.*.id[1]}"
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to create the interface attachment. If omitted, the region argument of the provider is used. Changing this creates a new attachment.
- instance_id (Required) The ID of the Instance to attach the Port or Network to.
- port_id (Optional) The ID of the Port to attach to an Instance. *NOTE*: This option and network_id are mutually exclusive.
- network_id (Optional) The ID of the Network to attach to an Instance.
 A port will be created automatically. NOTE: This option and port_id are mutually exclusive.
- fixed_ip (Optional) An IP address to assosciate with the port. NOTE: This option cannot be used with port_id. You must specify a network_id. The IP address must lie in a range on the supplied network.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- instance_id See Argument Reference above.
- port_id See Argument Reference above.
- network_id See Argument Reference above.
- fixed_ip See Argument Reference above.

» Import

Interface Attachments can be imported using the Instance ID and Port ID separated by a slash, e.g.

\$ terraform import huaweicloud_compute_interface_attach_v2.ai_1 89c60255-9bd6-460c-822a-e2b9

» huaweicloud_compute_keypair_v2

Manages a V2 keypair resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_compute_keypair_v2" "test-keypair" {
   name = "my-keypair"
   public_key = "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDAjpC1hwiOCCmKEWxJ4qzTTsJbKzndLotBCz5]
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Compute client. Keypairs are associated with accounts, but a Compute client is needed to create one. If omitted, the region argument of the provider is used. Changing this creates a new keypair.
- name (Required) A unique name for the keypair. Changing this creates a new keypair.
- public_key (Required) A pregenerated OpenSSH-formatted public key. Changing this creates a new keypair.
- value_specs (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- public_key See Argument Reference above.

» Import

Keypairs can be imported using the name, e.g.

\$ terraform import huaweicloud_compute_keypair_v2.my-keypair test-keypair

» huaweicloud_compute_secgroup_v2

Manages a V2 security group resource within HuaweiCloud.

Please note that managing security groups through the HuaweiCloud Compute API has been deprecated. Unless you are using an older HuaweiCloud environment, it is recommended to use the huaweicloud_networking_secgroup_v2 and huaweicloud_networking_secgroup_rule_v2 resources instead, which uses the HuaweiCloud Networking API.

» Example Usage

```
resource "huaweicloud_compute_secgroup_v2" "secgroup_1" {
              = "my secgroup"
 description = "my security group"
 rule {
               = 22
    from_port
    to_port
              = 22
    ip_protocol = "tcp"
               = "0.0.0.0/0"
    cidr
 rule {
    from_port
               = 80
               = 80
    to_port
    ip_protocol = "tcp"
              = "0.0.0.0/0"
    cidr
 }
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Compute client. A Compute client is needed to create a security group. If omitted, the region argument of the provider is used. Changing this creates a new security group.
- name (Required) A unique name for the security group. Changing this updates the name of an existing security group.
- description (Required) A description for the security group. Changing this updates the description of an existing security group.

• rule - (Optional) A rule describing how the security group operates. The rule object structure is documented below. Changing this updates the security group rules. As shown in the example above, multiple rule blocks may be used.

The rule block supports:

- from_port (Required) An integer representing the lower bound of the port range to open. Changing this creates a new security group rule.
- to_port (Required) An integer representing the upper bound of the port range to open. Changing this creates a new security group rule.
- ip_protocol (Required) The protocol type that will be allowed. Changing this creates a new security group rule.
- cidr (Optional) Required if from_group_id or self is empty. The IP range that will be the source of network traffic to the security group. Use 0.0.0.0/0 to allow all IP addresses. Changing this creates a new security group rule. Cannot be combined with from_group_id or self.
- from_group_id (Optional) Required if cidr or self is empty. The ID of a group from which to forward traffic to the parent group. Changing this creates a new security group rule. Cannot be combined with cidr or self.
- self (Optional) Required if cidr and from_group_id is empty. If true, the security group itself will be added as a source to this ingress rule. Cannot be combined with cidr or from_group_id.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- rule See Argument Reference above.

» Notes

» ICMP Rules

When using ICMP as the ip_protocol, the from_port sets the ICMP type and the to_port sets the ICMP code. To allow all ICMP types, set each value to -1, like so:

```
rule {
   from_port = -1
   to_port = -1
   ip_protocol = "icmp"
   cidr = "0.0.0.0/0"
}
```

A list of ICMP types and codes can be found here.

» Referencing Security Groups

When referencing a security group in a configuration (for example, a configuration creates a new security group and then needs to apply it to an instance being created in the same configuration), it is currently recommended to reference the security group by name and not by ID, like this:

» Import

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

\$ terraform import huaweicloud_compute_secgroup_v2.my_secgroup 1bc30ee9-9d5b-4c30-bdd5-7f1ee

> huaweicloud_compute_servergroup_v2

Manages a V2 Server Group resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_compute_servergroup_v2" "test-sg" {
  name = "my-sg"
  policies = ["anti-affinity"]
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Compute client. If omitted, the region argument of the provider is used. Changing this creates a new server group.
- name (Required) A unique name for the server group. Changing this creates a new server group.
- policies (Required) The set of policies for the server group. Only two two policies are available right now, and both are mutually exclusive. See the Policies section for more information. Changing this creates a new server group.
- value_specs (Optional) Map of additional options.

» Policies

- affinity All instances/servers launched in this group will be hosted on the same compute node.
- anti-affinity All instances/servers launched in this group will be hosted on different compute nodes.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- policies See Argument Reference above.
- members The instances that are part of this server group.

» Import

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

\$ terraform import huaweicloud_compute_servergroup_v2.test-sg 1bc30ee9-9d5b-4c30-bdd5-7f1e60

Attaches a Block Storage Volume to an Instance using the HuaweiCloud Compute (Nova) v2 API.

» Example Usage

» Basic attachment of a single volume to a single instance

```
resource "huaweicloud_blockstorage_volume_v2" "volume_1" {
 name = "volume_1"
 size = 1
}
resource "huaweicloud_compute_instance_v2" "instance_1" {
                 = "instance_1"
  security_groups = ["default"]
}
resource "huaweicloud_compute_volume_attach_v2" "va_1" {
  instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
  volume_id = "${huaweicloud_blockstorage_volume_v2.volume_1.id}"
}
» Attaching multiple volumes to a single instance
resource "huaweicloud_blockstorage_volume_v2" "volumes" {
 name = "${format("vol-%02d", count.index + 1)}"
  size = 1
}
resource "huaweicloud_compute_instance_v2" "instance_1" {
                 = "instance_1"
  security_groups = ["default"]
}
resource "huaweicloud_compute_volume_attach_v2" "attachments" {
  instance_id = "${huaweicloud_compute_instance_v2.instance_1.id}"
  volume_id = "${element(huaweicloud_blockstorage_volume_v2.volumes.*.id, count.index)}"
}
output "volume devices" {
 value = "${huaweicloud_compute_volume_attach_v2.attachments.*.device}"
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Compute client. A Compute client is needed to create a volume attachment. If omitted, the region argument of the provider is used. Changing this creates a new volume attachment.
- instance_id (Required) The ID of the Instance to attach the Volume to.
- volume_id (Required) The ID of the Volume to attach to an Instance.
- device (Optional) The device of the volume attachment (ex: /dev/vdc). NOTE: Being able to specify a device is dependent upon the hypervisor in use. There is a chance that the device specified in Terraform will not be the same device the hypervisor chose. If this happens, Terraform will wish to update the device upon subsequent applying which will cause the volume to be detached and reattached indefinitely. Please use with caution.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- instance_id See Argument Reference above.
- volume_id See Argument Reference above.
- device See Argument Reference above. *NOTE*: The correctness of this information is dependent upon the hypervisor in use. In some cases, this should not be used as an authoritative piece of information.
- pci_address PCI address of the block device.

» Import

Volume Attachments can be imported using the Instance ID and Volume ID separated by a slash, e.g.

\$ terraform import huaweicloud_compute_volume_attach_v2.va_1 89c60255-9bd6-460c-822a-e2b959e

» huaweicloud_ecs_instance_v1

Manages a V1 ECS instance resource within HuaweiCloud.

» Example Usage

» Basic Instance

```
resource "huaweicloud_ecs_instance_v1" "basic" {
          = "server_1"
 image_id = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 flavor = "s1.medium"
 vpc_id = "8eed4fc7-e5e5-44a2-b5f2-23b3e5d46235"
 nics {
   network_id = "55534eaa-533a-419d-9b40-ec427ea7195a"
 availability_zone = "cn-north-1a"
 key_name
             = "KeyPair-test"
 security_groups = ["default"]
» Instance with Data Disks
resource "huaweicloud_ecs_instance_v1" "basic" {
 name = "server 1"
 image_id = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 flavor = "s1.medium"
 vpc_id = "8eed4fc7-e5e5-44a2-b5f2-23b3e5d46235"
 nics {
   network_id = "55534eaa-533a-419d-9b40-ec427ea7195a"
 }
 system_disk_type = "SAS"
 system_disk_size = 40
 data_disks {
   type = "SATA"
   size = "10"
 data_disks {
   type = "SAS"
   size = "20"
 delete_disks_on_termination = true
```

availability_zone = "cn-north-1a"

```
= "KeyPair-test"
 key_name
 security_groups = ["default"]
}
» Instance With Attached Volume
resource "huaweicloud_blockstorage_volume_v2" "myvol" {
 name = "myvol"
 size = 1
}
resource "huaweicloud_ecs_instance_v1" "basic" {
         = "server_1"
 image id = ad091b52-742f-469e-8f3c-fd81cadf0743"
 flavor = "s1.medium"
 vpc_id = "8eed4fc7-e5e5-44a2-b5f2-23b3e5d46235"
 nics {
   network_id = "55534eaa-533a-419d-9b40-ec427ea7195a"
 availability_zone = "cn-north-1a"
 key_name = "KeyPair-test"
 security_groups = ["default"]
}
resource "huaweicloud_compute_volume_attach_v2" "attached" {
  instance_id = "${huaweicloud_ecs_instance_v1.basic.id}"
 volume_id = "${huaweicloud_blockstorage_volume_v2.myvol.id}"
}
» Instance With Multiple Networks
resource "huaweicloud_networking_floatingip_v2" "myip" {
}
resource "huaweicloud_ecs_instance_v1" "multi-net" {
 name = "server 1"
 image_id = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 flavor = "s1.medium"
 vpc_id = "8eed4fc7-e5e5-44a2-b5f2-23b3e5d46235"
 nics {
   network_id = "55534eaa-533a-419d-9b40-ec427ea7195a"
```

```
}
 nics {
   network_id = "2c0a74a9-4395-4e62-a17b-e3e86fbf66b7"
  availability_zone = "cn-north-1a"
 key_name = "KeyPair-test"
  security_groups = ["default"]
}
resource "huaweicloud_compute_floatingip_associate_v2" "myip" {
  floating_ip = "${huaweicloud_networking_floatingip_v2.myip.address}"
  instance id = "${huaweicloud ecs instance v1.multi-net.id}"
 fixed ip
           = "${huaweicloud_ecs_instance_v1.multi-net.nics.0.ip_address}"
}
» Instance with User Data (cloud-init)
resource "huaweicloud_ecs_instance_v1" "basic" {
         = "server_1"
  image_id = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor = "s1.medium"
 vpc_id = "8eed4fc7-e5e5-44a2-b5f2-23b3e5d46235"
 nics {
   network_id = "55534eaa-533a-419d-9b40-ec427ea7195a"
 user_data
                   = "#cloud-config\nhostname: server_1.example.com\nfqdn: server_1.example
                   = "KeyPair-test"
 key name
  security_groups = ["default"]
user data can come from a variety of sources: inline, read in from the file
```

user_data can come from a variety of sources: inline, read in from the file function, or the template_cloudinit_config resource.

» Argument Reference

- name (Required) A unique name for the instance.
- image_id (Required) The ID of the desired image for the server. Changing this creates a new server.

- flavor (Required) The name of the desired flavor for the server. Changing this resizes the existing server.
- user_data (Optional) The user data to provide when launching the instance. Changing this creates a new server.
- password (Optional) The administrative password to assign to the server. Changing this creates a new server.
- key_name (Optional) The name of a key pair to put on the server. The key pair must already be created and associated with the tenant's account. Changing this creates a new server.
- vpc_id (Required) The ID of the desired VPC for the server. Changing this creates a new server.
- nics (Optional) An array of one or more networks to attach to the instance. The nics object structure is documented below. Changing this creates a new server.
- system_disk_type (Optional) The system disk type of the server. For HANA, HL1, and HL2 ECSs use co-p1 and uh-l1 disks. Changing this creates a new server. Available options are:
 - SATA: common I/O disk type.
 - SAS: high I/O disk type.
 - SSD: ultra-high I/O disk type.
 - co-p1: high I/O(performance-optimized) disk type.
 - uh-l1: ultra-high I/O(latency-optimized) disk type.
- system_disk_size (Optional) The system disk size in GB, The value range is 1 to 1024. Changing this creates a new server.
- data_disks (Optional) An array of one or more data disks to attach to the instance. The data_disks object structure is documented below. Changing this creates a new server.
- security_groups (Optional) An array of one or more security group names to associate with the server. Changing this results in adding/removing security groups from the existing server.
- availability_zone (Required) The availability zone in which to create the server. Please refer to https://developer.huaweicloud.com/endpoint for the values. Changing this creates a new server.
- charging_mode (Optional) The charging mode of the instance. Valid options are: prePaid and postPaid, defaults to postPaid. Changing this creates a new server.
- period_unit (Optional) The charging period unit of the instance. Valid options are: month and year, defaults to month. Changing this creates a new server.

- period (Optional) The charging period of the instance. Changing this creates a new server.
- auto_recovery (Optional) Whether configure automatic recovery of an instance.
- delete_disks_on_termination (Optional) Delete the data disks upon termination of the instance. Defaults to false. Changing this creates a new server.
- enterprise_project_id (Optional) The enterprise project id. Changing this creates a new server.
- tags (Optional) Tags key/value pairs to associate with the instance.
- op_svc_userid (Optional) User ID, required when using key_name. Changing this creates a new server.

The nics block supports:

- network_id (Required) The network UUID to attach to the server. Changing this creates a new server.
- ip_address (Optional) Specifies a fixed IPv4 address to be used on this network. Changing this creates a new server.

The data_disks block supports:

- type (Required) The data disk type of the server. For HANA, HL1, and HL2 ECSs use co-p1 and uh-l1 disks. Changing this creates a new server. Available options are:
 - SATA: common I/O disk type.
 - SAS: high I/O disk type.
 - SSD: ultra-high I/O disk type.
 - co-p1: high I/O(performance-optimized) disk type.
 - uh−11: ultra-high I/O(latency-optimized) disk type.
- size (Required) The size of the data disk in GB. The value range is 10 to 32768. Changing this creates a new server.
- snapshot_id (Optional) Specifies the snapshot ID or ID of the original data disk contained in the full-ECS image. Changing this creates a new server.

» Attributes Reference

The following attributes are exported:

- id The ID of the server.
- nics/mac_address The MAC address of the NIC on that network.
- nics/port_id The port ID of the NIC on that network.

» Import

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

\$ terraform import huaweicloud_ecs_instance_v1.instance_1 d90ce693-5ccf-4136-a0ed-152ce412be

» huaweicloud_elb_loadbalancer

Manages an elastic loadbalancer resource within huawei cloud.

» Example Usage

» Argument Reference

- name (Required) Specifies the load balancer name. The name is a string of 1 to 64 characters that consist of letters, digits, underscores (_), and hyphens (-).
- description (Optional) Provides supplementary information about the listener. The value is a string of 0 to 128 characters and cannot be <>.
- vpc_id (Required) Specifies the VPC ID.
- bandwidth (Optional) Specifies the bandwidth (Mbit/s). This parameter is mandatory when type is set to External, and it is invalid when type is set to Internal. The value ranges from 1 to 300.
- type (Required) Specifies the load balancer type. The value can be Internal or External.
- admin_state_up (Required) Specifies the status of the load balancer. Value range: 0 or false: indicates that the load balancer is stopped. Only tenants are allowed to enter these two values. 1 or true: indicates that the load balancer is running properly. 2 or false: indicates that the load balancer is frozen. Only tenants are allowed to enter these two values.

- vip_subnet_id (Optional) Specifies the ID of the private network to be added. This parameter is mandatory when type is set to Internal, and it is invalid when type is set to External.
- az (Optional) Specifies the ID of the availability zone (AZ). This parameter is mandatory when type is set to Internal, and it is invalid when type is set to External.
- charge_mode (Optional) This is a reserved field. If the system supports charging by traffic and this field is specified, then you are charged by traffic for elastic IP addresses. The value is traffic.
- eip_type (Optional) This parameter is reserved.
- security_group_id (Optional) Specifies the security group ID. The value is a string of 1 to 200 characters that consists of uppercase and lowercase letters, digits, and hyphens (-). This parameter is mandatory only when type is set to Internal.
- vip_address (Optional) Specifies the IP address provided by ELB.
 When type is set to External, the value of this parameter is the elastic
 IP address. When type is set to Internal, the value of this parameter
 is the private network IP address. You can select an existing elastic IP
 address and create a public network load balancer. When this parameter
 is configured, parameters bandwidth, charge_mode, and eip_type are
 invalid.
- tenantid (Optional) Specifies the tenant ID. This parameter is mandatory only when type is set to Internal.

» Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- description See Argument Reference above.
- vpc id See Argument Reference above.
- bandwidth See Argument Reference above.
- type See Argument Reference above.
- admin_state_up See Argument Reference above.
- vip_subnet_id See Argument Reference above.
- az See Argument Reference above.
- charge_mode See Argument Reference above.
- eip_type See Argument Reference above.
- security_group_id See Argument Reference above.
- vip_address See Argument Reference above.
- tenantid See Argument Reference above.

- update_time Specifies the time when information about the load balancer was updated.
- create_time Specifies the time when the load balancer was created.
- id Specifies the load balancer ID.
- status Specifies the status of the load balancer. The value can be ACTIVE, PENDING_CREATE, or ERROR.

» huaweicloud_elb_listener

Manages an elastic loadbalancer listener resource within huawei cloud.

» Example Usage

```
resource "huaweicloud_elb_loadbalancer" "elb" {
                = "elb"
 name
                = "External"
  type
              = "test elb"
 description
                = "e346dc4a-d9a6-46f4-90df-10153626076e"
 vpc_id
 admin_state_up = 1
 bandwidth
}
resource "huaweicloud_elb_listener" "listener" {
                  = "test-elb-listener"
 name
               = "great listener"
 description
 protocol
                  = "TCP"
 backend_protocol = "TCP"
                  = 12345
 port
 backend_port = 8080
lb_algorithm = "roundrobin"
 loadbalancer id = "${huaweicloud elb loadbalancer.elb.id}"
  timeouts {
    create = "5m"
   update = "5m"
   delete = "5m"
 }
}
```

» Argument Reference

- name (Required) Specifies the load balancer name. The name is a string of 1 to 64 characters that consist of letters, digits, underscores (_), and hyphens (-).
- description (Optional) Provides supplementary information about the listener. The value is a string of 0 to 128 characters and cannot be <>.
- loadbalancer_id (Required) Specifies the ID of the load balancer to which the listener belongs.
- protocol (Required) Specifies the listening protocol used for layer 4 or 7. The value can be HTTP, TCP, HTTPS, or UDP.
- port (Required) Specifies the listening port. The value ranges from 1 to 65535.
- backend_protocol (Required) Specifies the backend protocol. If the value of protocol is UDP, the value of this parameter can only be UDP. The value can be HTTP, TCP, or UDP.
- backend_port (Required) Specifies the backend port. The value ranges from 1 to 65535.
- 1b_algorithm (Required) Specifies the load balancing algorithm for the listener. The value can be roundrobin, leastconn, or source.
- session_sticky (Optional) Specifies whether to enable sticky session. The value can be true or false. The Sticky session is enabled when the value is true, and is disabled when the value is false. If the value of protocol is HTTP, HTTPS, or TCP, and the value of lb_algorithm is not roundrobin, the value of this parameter can only be false.
- sticky_session_type (Optional) Specifies the cookie processing method. The value is insert. insert indicates that the cookie is inserted by the load balancer. This parameter is valid when protocol is set to HTTP, and session_sticky to true. The default value is insert. This parameter is invalid when protocol is set to TCP or UDP, which means the parameter is empty.
- cookie_timeout (Optional) Specifies the cookie timeout period (minutes). This parameter is valid when protocol is set to HTTP, session_sticky to true, and sticky_session_type to insert. This parameter is invalid when protocol is set to TCP or UDP. The value ranges from 1 to 1440.
- tcp_timeout (Optional) Specifies the TCP timeout period (minutes). This parameter is valid when protocol is set to TCP. The value ranges from 1 to 5.
- tcp_draining (Optional) Specifies whether to maintain the TCP connection to the backend ECS after the ECS is deleted. This parameter is valid when protocol is set to TCP. The value can be true or false.

- tcp_draining_timeout (Optional) Specifies the timeout duration (minutes) for the TCP connection to the backend ECS after the ECS is deleted. This parameter is valid when protocol is set to TCP, and tcp_draining to true. The value ranges from 0 to 60.
- certificate_id (Optional) Specifies the ID of the SSL certificate used for security authentication when HTTPS is used to make API calls. This parameter is mandatory if the value of protocol is HTTPS. The value can be obtained by viewing the details of the SSL certificate.
- udp_timeout (Optional) Specifies the UDP timeout duration (minutes). This parameter is valid when protocol is set to UDP. The value ranges from 1 to 1440.
- ssl_protocols (Optional) Specifies the SSL protocol standard supported by a tracker, which is used for enabling specified encryption protocols. This parameter is valid only when the value of protocol is set to HTTPS. The value is TLSv1.2 or TLSv1.2 TLSv1.1 TLSv1. The default value is TLSv1.2.
- ssl_ciphers (Optional) Specifies the cipher suite of an encryption protocol. This parameter is valid only when the value of protocol is set to HTTPS. The value is Default, Extended, or Strict. The default value is Default. The value can only be set to Extended if the value of ssl_protocols is set to TLSv1.2 TLSv1.1 TLSv1.

The following attributes are exported:

- name See Argument Reference above.
- description See Argument Reference above.
- loadbalancer_id See Argument Reference above.
- protocol See Argument Reference above.
- port See Argument Reference above.
- backend_protocol See Argument Reference above.
- backend_port See Argument Reference above.
- lb_algorithm See Argument Reference above.
- session_sticky See Argument Reference above.
- sticky_session_type See Argument Reference above.
- cookie_timeout See Argument Reference above.
- tcp_timeout See Argument Reference above.
- tcp_draining See Argument Reference above.
- tcp_draining_timeout See Argument Reference above.
- certificate_id See Argument Reference above.
- udp timeout See Argument Reference above.
- ssl protocols See Argument Reference above.

- ssl_ciphers See Argument Reference above.
- update_time Specifies the time when information about the listener was updated.
- id Specifies the listener ID.
- create_time Specifies the time when the listener was created.
- status Specifies the listener status. The value can be ACTIVE, PEND-ING CREATE, or ERROR.
- admin_state_up Specifies the status of the load balancer. Value range: false: The load balancer is disabled. true: The load balancer runs properly.
- member_number Specifies the number of backend members.
- healthcheck_id Specifies the health check task ID.

» huaweicloud_elb_healthcheck

Manages an elastic loadbalancer healthcheck resource within huawei cloud.

```
resource "huaweicloud_elb_loadbalancer" "elb" {
                = "elb"
 name
                = "External"
  type
 description
                = "test elb"
                = "e346dc4a-d9a6-46f4-90df-10153626076e"
  vpc_id
  admin_state_up = 1
  bandwidth
}
resource "huaweicloud_elb_listener" "listener" {
                  = "test-elb-listener"
 description
                 = "great listener"
                  = "TCP"
 protocol
 backend_protocol = "TCP"
 port
                   = 12345
                  = 8080
 backend_port
 lb algorithm
                 = "roundrobin"
 loadbalancer_id = "${huaweicloud_elb_loadbalancer.elb.id}"
  timeouts {
    create = "5m"
    update = "5m"
    delete = "5m"
}
```

```
resource "huaweicloud_elb_healthcheck" "healthcheck" {
                            = "${huaweicloud_elb_listener.listener.id}"
  listener_id
                            = "TCP"
 healthcheck_protocol
 healthcheck_connect_porta = 22
 healthy_threshold
                            = 25
 healthcheck_timeout
                            = 3
 healthcheck_interval
  timeouts {
    create = "5m"
   update = "5m"
    delete = "5m"
 }
}
```

- listener_id (Required) Specifies the ID of the listener to which the health check task belongs.
- healthcheck_protocol (Optional) Specifies the protocol used for the health check. The value can be HTTP or TCP (case-insensitive).
- healthcheck_uri (Optional) Specifies the URI for health check. This parameter is valid when healthcheck_ protocol is HTTP. The value is a string of 1 to 80 characters that must start with a slash (/) and can only contain letters, digits, and special characters, such as -/.%?#&.
- healthcheck_connect_port (Optional) Specifies the port used for the health check. The value ranges from 1 to 65535.
- healthy_threshold (Optional) Specifies the threshold at which the health check result is success, that is, the number of consecutive successful health checks when the health check result of the backend server changes from fail to success. The value ranges from 1 to 10.
- unhealthy_threshold (Optional) Specifies the threshold at which the health check result is fail, that is, the number of consecutive failed health checks when the health check result of the backend server changes from success to fail. The value ranges from 1 to 10.
- healthcheck_timeout (Optional) Specifies the maximum timeout duration (s) for the health check. The value ranges from 1 to 50.
- healthcheck_interval (Optional) Specifies the maximum interval (s) for health check. The value ranges from 1 to 5.

The following attributes are exported:

- listener id See Argument Reference above.
- healthcheck_protocol See Argument Reference above.
- healthcheck_uri See Argument Reference above.
- healthcheck_connect_port See Argument Reference above.
- healthy threshold See Argument Reference above.
- unhealthy_threshold See Argument Reference above.
- healthcheck_timeout See Argument Reference above.
- healthcheck_interval See Argument Reference above.
- id Specifies the health check task ID.
- update_time Specifies the time when information about the health check task was updated.
- create_time Specifies the time when the health check task was created.

» huaweicloud_elb_backendecs

Manages an elastic loadbalancer backendecs resource within huawei cloud.

```
resource "huaweicloud elb loadbalancer" "elb" {
                = "elb"
 name
                = "External"
 type
 description = "test elb"
                = "e346dc4a-d9a6-46f4-90df-10153626076e"
 vpc_id
 admin_state_up = 1
 bandwidth
}
resource "huaweicloud_elb_listener" "listener" {
                 = "test-elb-listener"
 name
 description
                 = "great listener"
                 = "TCP"
 protocol
 backend_protocol = "TCP"
 port
                  = 12345
 backend_port
                 = 8080
                = "roundrobin"
 lb_algorithm
 loadbalancer id = "${huaweicloud elb loadbalancer.elb.id}"
 timeouts {
   create = "5m"
   update = "5m"
```

```
delete = "5m"
}

resource "huaweicloud_elb_backendecs" "backend" {
  private_address = "192.168.0.211"
  listener_id = "${huaweicloud_elb_listener.listener.id}"
  server_id = "8f7a32f1-f66c-4d13-9b17-3a13f9f0bb8d"
}
```

The following arguments are supported:

- listener_id (Required) Specifies the listener ID.
- server_id (Required) Specifies the backend member ID.
- private_address (Required) Specifies the private IP address of the backend member.

» Attributes Reference

The following attributes are exported:

- listener id See Argument Reference above.
- server_id See Argument Reference above.
- private_address See Argument Reference above.
- public_address Specifies the floating IP address assigned to the backend member.
- id Specifies the backend member ID.
- status Specifies the backend ECS status. The value is ACTIVE, PEND-ING, or ERROR.
- health_status Specifies the health check status. The value is NORMAL, ABNORMAL, or UNAVAILABLE.
- update_time Specifies the time when information about the backend member was updated.
- create_time Specifies the time when the backend member was created.
- server_name Specifies the backend member name.
- listeners Specifies the listener to which the backend member belongs.

» huaweicloud_lb_certificate_v2

Manages a V2 certificate resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_lb_certificate_v2" "certificate_1" {
  name = "certificate_1"
  description = "terraform test certificate"
  domain = "www.elb.com"
  private_key = <<EOT
----BEGIN RSA PRIVATE KEY-----</pre>
```

MIIEowIBAAKCAQEAwZ5UJULAjWr7p6FVwGRQRjFN2s8tZ/6LC3X82fajpVsYqF1x qEuUDndDXVD09E4u83MS6H06a3bIVQDp6/klnYldiE6Vp8HH5BSKaCWKVg8lGWg1 UM9wZFnlryi14KgmpIFmcu9nA8yV/6MZAe6RSDmb3iyNBmiZ8aZhGw2pI1YwR+15 MVqFFGB+7ExkziR0i7L8CFCyCezK2/o00vQsH1dzQ8z1JXWdg8/9Zx7Ktvgwu5PQ $\tt M3cJtSHX6iBPOkMU8Z8TugLlTqQXKZOEgwajwvQ5mf2DPkVgM08XAgaLJcLigwD5$ 13koAdtJd5v+9irw+5LAuO3JclqwTvwy7u/YwwIDAQABAoIBACU9S5fjD9/jTMXA DRsO8A+gGgZUxLn0xk+NAPX3LyB1tfdkCaFB8BccLzO6h3KZuwQOBPv6jkdvEDbx Nwyw3eA/9GJsIvKiHcOrejdvyPymaw9I8MA7NbXHaJrY7KpqDQyk6sx+aUTcy5jg iMXLWdwXYHhJ/1HVOo603oZyiS6HZeYU089NDUcX+1SJi3e5KeOgPVXEqCq1011/ rh24bMxnwZo4PKBWdcMBN5Zf/4ij9vrZE+fFzW7vGBO48A5lvZxWU2U5t/OZQRtN 1uLOHmMFaOFIF2aWbTVfwdUWAFsvAOkHj9VV8BXOUwKOUuEktdkfAlvrxmsFrO/H $\verb|yDeYYPkCgYEA/S55CBbR0sMXpSZ56uRn8JHApZJhgkgvYr+FqDlJq/e92nAzf01P| \\$ RoEBUajwrnf1ycevN/SDfbtWzq2XJGqhWdJmtp016b7KBsC6BdRcH6dn0Yh31jgA vABMIP3wzI4zSVTyxRE8LDuboytF1mSCeV5tHYPQTZNwrplDnLQhywcCgYEAw8Yc Uk/eiFr3hfH/ZohMfV5p82Qp7DNIGRzw8YtVG/3+vNXrAXW1VhugNhQY6L+zLtJC aKn84ooupOm3YCgOhvINqJuvzfsuzQgtjTXyaEOcEwsjUusOmiujO9vVx/3U7siK Hdjd2ICPCvQ6Q8tdi8jV320gMs05AtaBkZdsiWUCgYEAtLw4Kk4f+xTKDFsrLUNf 75wcqhWVBiwBp7yQ7UX4EYsJPKZcHMRTk0EEcAbpyaJZE3I44vjp5ReXIHNLMfPs uvI34J4RfotOLN3n7cFrAi2+wpNo+MOBwrNzpRmijGP2uKKrq4JiMjFbKV/6utGF Up7VxfwS904JYpqGaZctiIECgYA1A6nZtFOriY6ry/uAdXpZHL8ONNqRZtWoT0kD 79otSVu5ISiRbaGcXsDExC52oKrSDAgFtbqQUiEOFg09UcXfoR6HwRkba2CiDwve yHQLQI5Qrdxz8MkOgIrNrSM4FAmcW9vi9z4kCbQyoC5C+4gqeUlJRpDIkQBWP2Y4 2ct/bQKBgHv8qCsQTZph0xc31BJPa2xVhuv18cEU3XLUrVfUZ/1f43JhLp7gynS2 ep++LKUi9D0VGXY8bqvfJjbECoCeu85vl8NpCXwe/LoVoIn+7KaVIZMwqoGMfgNl nEqm7HWkNxHhf8A6En/IjleuddS1sf9e/x+TJN1Xhnt9W6pe7Fk1

```
----END RSA PRIVATE KEY----EOT
```

```
certificate = <<EOT
----BEGIN CERTIFICATE-----</pre>
```

MIIDpTCCAo2gAwIBAgIJAKdmmOBYnFvoMAOGCSqGSIb3DQEBCwUAMGkxCzAJBgNVBAYTAnh4MQswCQYDVQQIDAJ4eDELMAkGA1UEBwwCeHgxCzAJBgNVBAoMAnh4MQswCQYDVQQLDAJ4eDELMAkGA1UEAwwCeHgxGTAXBgkqhkiG9wOBCQEWCnh4QDE2My5jb2OwHhcNMTcxMjAOMDMOMjQ5WhcNMjAxMjAzMDMOMjQ5WjBpMQswCQYDVQQGEwJ4eDELMAkGA1UECAwCeHgxCzAJBgNVBAcMAnh4MQswCQYDVQQKDAJ4eDELMAkGA1UECwwCeHgxCzAJBgNVBACMAnh4MQswCQYDVQQKDAJ4eDELMAkGA1UECwwCeHgxCzAJBgNVBAMMAnh4MRkwFwYJKoZIhvcNAQkBFgp4eEAxNjMuY29tMIIBIJANBgkqhkiG9wOBAQEFAAOCAQ8AMIIBCgKCAQEAwZ5UJULAjWr7p6FVwGRQRjFN

2s8tZ/6LC3X82fajpVsYqF1xqEuUDndDXVD09E4u83MS6H06a3bIVQDp6/klnYld iE6Vp8HH5BSKaCWKVg8lGWg1UM9wZFnlryi14KgmpIFmcu9nA8yV/6MZAe6RSDmb 3iyNBmiZ8aZhGw2pI1YwR+15MVqFFGB+7ExkziR0i7L8CFCyCezK2/o00vQsH1dz Q8z1JXWdg8/9Zx7Ktvgwu5PQM3cJtSHX6iBPOkMU8Z8TugLlTqQXKZ0EgwajwvQ5 mf2DPkVgM08XAgaLJcLigwD513koAdtJd5v+9irw+5LAu03JclqwTvwy7u/YwwID AQABo1AwTjAdBgNVHQ4EFgQUo5A2tIu+bcUfvGTD7wmEkhXKFjcwHwYDVR0jBBgw FoAUo5A2tIu+bcUfvGTD7wmEkhXKFjcwDAYDVR0TBAUwAwEB/zANBgkqhkiG9w0B AQsFAAOCAQEAWJ2rS6Mvlqk3GfEpboezx2J3X711z8Sxoqg6ntwB+rezvK3mc9H0 83qcVeUcoH+0A01SHyFN4FvRQL6X1hEheHarYwJK4agb231vb5erasuG0463eYEG r4SfTu0m7SyiV2xxbaBKrXJtpBp4WLL/s+LF+nklKjaOxkmxUX0sM4CTA7uFJypY c8Tdr81DDNqoUtMD8BrUCJi+71mMXRcC3Qi3oZJW76ja+kZA5mKVFPd1ATih8TbA i34R7EQDtFeiSvBdeKRsPp8c0KT8H1B41XNkkCQs2WX5p4lm99+ZtLD4glw8x6Ic i1YhgnQbn5E0hz550Lu5jvOkKQjPCW+8Kg==

```
----END CERTIFICATE-----
EOT

timeouts {
   create = "5m"
   update = "5m"
   delete = "5m"
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an LB certificate. If omitted, the region argument of the provider is used. Changing this creates a new LB certificate.
- name (Optional) Human-readable name for the Certificate. Does not have to be unique.
- description (Optional) Human-readable description for the Certificate.
- domain (Optional) The domain of the Certificate.
- private_key (Required) The private encrypted key of the Certificate, PEM format.
- certificate (Required) The public encrypted key of the Certificate, PEM format.

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- domain See Argument Reference above.
- private_key See Argument Reference above.
- certificate See Argument Reference above.
- update_time Indicates the update time.
- create_time Indicates the creation time.

» huaweicloud_lb_loadbalancer_v2

Manages a V2 loadbalancer resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_lb_loadbalancer_v2" "lb_1" {
   vip_subnet_id = "d9415786-5f1a-428b-b35f-2f1523e146d2"
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an LB member. If omitted, the region argument of the provider is used. Changing this creates a new LB member.
- vip_subnet_id (Required) The network on which to allocate the Load-balancer's address. A tenant can only create Loadbalancers on networks authorized by policy (e.g. networks that belong to them or networks that are shared). Changing this creates a new loadbalancer.
- name (Optional) Human-readable name for the Loadbalancer. Does not have to be unique.
- description (Optional) Human-readable description for the Loadbal-ancer.

- tenant_id (Optional) Required for admins. The UUID of the tenant who owns the Loadbalancer. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new loadbalancer.
- vip_address (Optional) The ip address of the load balancer. Changing this creates a new loadbalancer.
- admin_state_up (Optional) The administrative state of the Loadbalancer. A valid value is true (UP) or false (DOWN).
- flavor (Optional) The UUID of a flavor. Changing this creates a new loadbalancer.
- loadbalancer_provider (Optional) The name of the provider. Changing this creates a new loadbalancer.
- security_group_ids (Optional) A list of security group IDs to apply to the loadbalancer. The security groups must be specified by ID and not name (as opposed to how they are configured with the Compute Instance).

The following attributes are exported:

- region See Argument Reference above.
- vip_subnet_id See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- tenant_id See Argument Reference above.
- vip address See Argument Reference above.
- admin state up See Argument Reference above.
- flavor See Argument Reference above.
- loadbalancer_provider See Argument Reference above.
- security_group_ids See Argument Reference above.
- vip_port_id The Port ID of the Load Balancer IP.

» huaweicloud_lb_listener_v2

Manages a V2 listener resource within HuaweiCloud.

```
resource "huaweicloud_lb_listener_v2" "listener_1" {
  protocol = "HTTP"
  protocol_port = 8080
```

```
loadbalancer_id = "d9415786-5f1a-428b-b35f-2f1523e146d2"
}
```

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the region argument of the provider is used. Changing this creates a new Listener.
- protocol (Required) The protocol can either be TCP, HTTP, HTTPS or TERMINATED_HTTPS. Changing this creates a new Listener.
- protocol_port (Required) The port on which to listen for client traffic. Changing this creates a new Listener.
- tenant_id (Optional) Required for admins. The UUID of the tenant who owns the Listener. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new Listener.
- loadbalancer_id (Required) The load balancer on which to provision this Listener. Changing this creates a new Listener.
- name (Optional) Human-readable name for the Listener. Does not have to be unique.
- default_pool_id (Optional) The ID of the default pool with which the Listener is associated. Changing this creates a new Listener.
- description (Optional) Human-readable description for the Listener.
- connection_limit (Optional) The maximum number of connections allowed for the Listener.
- default_tls_container_ref (Optional) A reference to a Barbican Secrets container which stores TLS information. This is required if the protocol is TERMINATED_HTTPS. See here for more information.
- sni_container_refs (Optional) A list of references to Barbican Secrets containers which store SNI information. See here for more information.
- admin_state_up (Optional) The administrative state of the Listener. A valid value is true (UP) or false (DOWN).

» Attributes Reference

The following attributes are exported:

• id - The unique ID for the Listener.

- protocol See Argument Reference above.
- protocol_port See Argument Reference above.
- tenant_id See Argument Reference above.
- name See Argument Reference above.
- default_port_id See Argument Reference above.
- description See Argument Reference above.
- connection_limit See Argument Reference above.
- default_tls_container_ref See Argument Reference above.
- sni_container_refs See Argument Reference above.
- admin_state_up See Argument Reference above.

» huaweicloud_lb_pool_v2

Manages a V2 pool resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_lb_pool_v2" "pool_1" {
  protocol = "HTTP"
  lb_method = "ROUND_ROBIN"
  listener_id = "d9415786-5f1a-428b-b35f-2f1523e146d2"

  persistence {
    type = "HTTP_COOKIE"
    cookie_name = "testCookie"
  }
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the region argument of the provider is used. Changing this creates a new pool.
- tenant_id (Optional) Required for admins. The UUID of the tenant who owns the pool. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new pool.
- name (Optional) Human-readable name for the pool.
- description (Optional) Human-readable description for the pool.

- protocol = (Required) The protocol can either be TCP, HTTP or HTTPS. Changing this creates a new pool.
- loadbalancer_id (Optional) The load balancer on which to provision this pool. Changing this creates a new pool. Note: One of LoadbalancerID or ListenerID must be provided.
- listener_id (Optional) The Listener on which the members of the pool will be associated with. Changing this creates a new pool. Note: One of LoadbalancerID or ListenerID must be provided.
- 1b_method (Required) The load balancing algorithm to distribute traffic to the pool's members. Must be one of ROUND_ROBIN, LEAST CONNECTIONS, or SOURCE IP.
- persistence Omit this field to prevent session persistence. Indicates whether connections in the same session will be processed by the same Pool member or not. Changing this creates a new pool.
- admin_state_up (Optional) The administrative state of the pool. A valid value is true (UP) or false (DOWN).

The persistence argument supports:

- type (Required) The type of persistence mode. The current specification supports SOURCE_IP, HTTP_COOKIE, and APP_COOKIE.
- cookie_name (Optional) The name of the cookie if persistence mode is set appropriately. Required if type = APP_COOKIE.

» Attributes Reference

The following attributes are exported:

- id The unique ID for the pool.
- tenant_id See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- protocol See Argument Reference above.
- lb_method See Argument Reference above.
- persistence See Argument Reference above.
- admin_state_up See Argument Reference above.

» huaweicloud lb member v2

Manages a V2 member resource within HuaweiCloud.

» Example Usage

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the region argument of the provider is used. Changing this creates a new member.
- pool_id (Required) The id of the pool that this member will be assigned to.
- subnet_id (Required) The subnet in which to access the member
- name (Optional) Human-readable name for the member.
- tenant_id (Optional) Required for admins. The UUID of the tenant who owns the member. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new member.
- address (Required) The IP address of the member to receive traffic from the load balancer. Changing this creates a new member.
- protocol_port (Required) The port on which to listen for client traffic. Changing this creates a new member.
- weight (Optional) A positive integer value that indicates the relative portion of traffic that this member should receive from the pool. For example, a member with a weight of 10 receives five times as much traffic as a member with a weight of 2.
- admin_state_up (Optional) The administrative state of the member. A valid value is true (UP) or false (DOWN).

» Attributes Reference

The following attributes are exported:

- id The unique ID for the member.
- name See Argument Reference above.
- weight See Argument Reference above.

- admin_state_up See Argument Reference above.
- tenant_id See Argument Reference above.
- subnet id See Argument Reference above.
- pool_id See Argument Reference above.
- address See Argument Reference above.
- protocol_port See Argument Reference above.

> huaweicloud_lb_monitor_v2

Manages a V2 monitor resource within HuaweiCloud.

» Example Usage

» Argument Reference

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the region argument of the provider is used. Changing this creates a new monitor.
- pool_id (Required) The id of the pool that this monitor will be assigned to
- name (Optional) The Name of the Monitor.
- tenant_id (Optional) Required for admins. The UUID of the tenant who owns the monitor. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new monitor.
- type (Required) The type of probe, which is PING, TCP, HTTP, or HTTPS, that is sent by the load balancer to verify the member state. Changing this creates a new monitor.
- delay (Required) The time, in seconds, between sending probes to members.

- timeout (Required) Maximum number of seconds for a monitor to wait for a ping reply before it times out. The value must be less than the delay value.
- max_retries (Required) Number of permissible ping failures before changing the member's status to INACTIVE. Must be a number between 1 and 10.
- url_path (Optional) Required for HTTP(S) types. URI path that will be accessed if monitor type is HTTP or HTTPS.
- http_method (Optional) Required for HTTP(S) types. The HTTP method used for requests by the monitor. If this attribute is not specified, it defaults to "GET".
- expected_codes (Optional) Required for HTTP(S) types. Expected HTTP codes for a passing HTTP(S) monitor. You can either specify a single status like "200", or a range like "200-202".
- admin_state_up (Optional) The administrative state of the monitor. A valid value is true (UP) or false (DOWN).

The following attributes are exported:

- id The unique ID for the monitor.
- tenant_id See Argument Reference above.
- type See Argument Reference above.
- delay See Argument Reference above.
- timeout See Argument Reference above.
- max_retries See Argument Reference above.
- url_path See Argument Reference above.
- http_method See Argument Reference above.
- expected_codes See Argument Reference above.
- admin_state_up See Argument Reference above.

» huaweicloud_lb_l7policy_v2

Manages a Load Balancer L7 Policy resource within HuaweiCloud.

```
vip_subnet_id = "SUBNET_ID"
resource "huaweicloud_lb_listener_v2" "listener_1" {
                 = "listener 1"
                 = "HTTP"
 protocol
 protocol_port = 8080
  loadbalancer_id = "${huaweicloud_lb_loadbalancer_v2.loadbalancer_1.id}"
resource "huaweicloud_lb_pool_v2" "pool_1" {
                 = "pool_1"
                 = "HTTP"
 protocol
                 = "ROUND ROBIN"
 1b method
  loadbalancer_id = "${huaweicloud_lb_loadbalancer_v2.loadbalancer_1.id}"
}
resource "huaweicloud_lb_17policy_v2" "17policy_1" {
                  = "test"
 name
                  = "REDIRECT TO POOL"
  action
                 = "test 17 policy"
 description
 position
                 = 1
              = "${huaweicloud_lb_listener_v2.listener_1.id}"
 listener_id
  redirect_pool_id = "${huaweicloud_lb_pool_v2.pool_1.id}"
}
```

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the region argument of the provider is used. Changing this creates a new L7 Policy.
- tenant_id (Optional) Required for admins. The UUID of the tenant who owns the L7 Policy. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new L7 Policy.
- name (Optional) Human-readable name for the L7 Policy. Does not have to be unique.
- description (Optional) Human-readable description for the L7 Policy.
- action (Required) The L7 Policy action can either be REDI-RECT_TO_POOL, or REDIRECT_TO_LISTENER. Changing this creates a new L7 Policy.

- listener_id (Required) The Listener on which the L7 Policy will be associated with. Changing this creates a new L7 Policy.
- position (Optional) The position of this policy on the listener. Positions start at 1. Changing this creates a new L7 Policy.
- redirect_pool_id (Optional) Requests matching this policy will be redirected to the pool with this ID. Only valid if action is REDIRECT TO POOL.
- redirect_listener_id (Optional) Requests matching this policy will be redirected to the listener with this ID. Only valid if action is REDI-RECT_TO_LISTENER.
- admin_state_up (Optional) The administrative state of the L7 Policy. This value can only be true (UP).

The following attributes are exported:

- id The unique ID for the L7 {olicy.
- region See Argument Reference above.
- tenant_id See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- action See Argument Reference above.
- listener_id See Argument Reference above.
- position See Argument Reference above.
- redirect pool id See Argument Reference above.
- redirect_listener_id See Argument Reference above.
- admin_state_up See Argument Reference above.

» Import

Load Balancer L7 Policy can be imported using the L7 Policy ID, e.g.:

\$ terraform import huaweicloud_lb_17policy_v2.17policy_1 8a7a79c2-cf17-4e65-b2ae-ddc8bfcf6c

» huaweicloud_lb_l7rule_v2

Manages a V2 L7 Rule resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_lb_loadbalancer_v2" "loadbalancer_1" {
               = "loadbalancer 1"
 vip_subnet_id = "SUBNET_ID"
}
resource "huaweicloud_lb_listener_v2" "listener_1" {
                 = "listener_1"
                 = "HTTP"
 protocol
 protocol_port = 8080
 loadbalancer_id = "${huaweicloud_lb_loadbalancer_v2.loadbalancer_1.id}"
}
resource "huaweicloud_lb_pool_v2" "pool_1" {
                 = "pool_1"
                = "HTTP"
 protocol
               = "ROUND_ROBIN"
 lb_method
 loadbalancer_id = "${huaweicloud_lb_loadbalancer_v2.loadbalancer_1.id}"
}
resource "huaweicloud_lb_17policy_v2" "17policy_1" {
              = "test"
              = "REDIRECT_TO_URL"
 action
 description = "test description"
             = 1
 position
 listener_id = "${huaweicloud_lb_listener_v2.listener_1.id}"
 redirect_url = "http://www.example.com"
}
resource "huaweicloud_lb_17rule_v2" "17rule_1" {
 17policy_id = "${huaweicloud_lb_17policy_v2.17policy_1.id}"
              = "PATH"
 type
 compare_type = "EQUAL_TO"
        = "/api"
 value
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the region argument of the provider is used. Changing this creates a new L7 Rule.
- tenant_id (Optional) Required for admins. The UUID of the tenant

who owns the L7 Rule. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new L7 Rule.

- description (Optional) Human-readable description for the L7 Rule.
- type (Required) The L7 Rule type can either be HOST_NAME or PATH. Changing this creates a new L7 Rule.
- compare_type (Required) The comparison type for the L7 rule can either be STARTS WITH, EQUAL TO or REGEX
- 17policy_id (Required) The ID of the L7 Policy to query. Changing this creates a new L7 Rule.
- value (Required) The value to use for the comparison. For example, the file type to compare.
- key (Optional) The key to use for the comparison. For example, the name of the cookie to evaluate. Valid when type is set to COOKIE or HEADER. Changing this creates a new L7 Rule.
- admin_state_up (Optional) The administrative state of the L7 Rule. The value can only be true (UP).

» Attributes Reference

The following attributes are exported:

- id The unique ID for the L7 Rule.
- region See Argument Reference above.
- tenant_id See Argument Reference above.
- type See Argument Reference above.
- compare_type See Argument Reference above.17policy_id See Argument Reference above.
- value See Argument Reference above.
- key See Argument Reference above.
- invert See Argument Reference above.
- admin_state_up See Argument Reference above.
- listener_id The ID of the Listener owning this resource.

» Import

Load Balancer L7 Rule can be imported using the L7 Policy ID and L7 Rule ID separated by a slash, e.g.:

\$ terraform import huaweicloud_lb_17rule_v2.17rule_1 e0bd694a-abbe-450e-b329-0931fd1cc5eb/40

» huaweicloud_lb_whitelist_v2

Manages a Load Balancer whitelist resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_lb_listener_v2" "listener_1" {
                 = "listener 1"
 name
                 = "HTTP"
 protocol
 protocol_port
                 = 8080
  loadbalancer_id = var.loadbalancer_id
}
resource "huaweicloud_lb_whitelist_v2" "whitelist_1" {
  enable_whitelist = true
                  = "192.168.11.1,192.168.0.1/24,192.168.201.18/8"
 whitelist
  listener id
                 = huaweicloud lb listener v2.listener 1.id
}
```

» Argument Reference

The following arguments are supported:

- tenant_id (Optional) Required for admins. The UUID of the tenant who owns the whitelist. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new whitelist.
- listener_id (Required) The Listener ID that the whitelist will be associated with. Changing this creates a new whitelist.
- enable_whitelist (Optional) Specify whether to enable access control.
- whitelist (Optional) Specifies the IP addresses in the whitelist. Use commas(,) to separate the multiple IP addresses.

» Attributes Reference

The following attributes are exported:

- id The unique ID for the whitelist.
- tenant_id See Argument Reference above.
- listener_id See Argument Reference above.
- enable_whitelist See Argument Reference above.
- whitelist See Argument Reference above.

» huaweicloud_blockstorage_volume_v2

Manages a V2 volume resource within HuaweiCloud.

» Example Usage

» Argument Reference

- region (Optional) The region in which to create the volume. If omitted, the region argument of the provider is used. Changing this creates a new volume.
- size (Required) The size of the volume to create (in gigabytes).
- availability_zone (Optional) The availability zone for the volume. Changing this creates a new volume.
- consistency_group_id (Optional) The consistency group to place the volume in.
- description (Optional) A description of the volume. Changing this updates the volume's description.
- image_id (Optional) The image ID from which to create the volume. Changing this creates a new volume.
- metadata (Optional) Metadata key/value pairs to associate with the volume. Changing this updates the existing volume metadata.
- name (Optional) A unique name for the volume. Changing this updates the volume's name.
- snapshot_id (Optional) The snapshot ID from which to create the volume. Changing this creates a new volume.
- source_replica (Optional) The volume ID to replicate with.
- source_vol_id (Optional) The volume ID from which to create the volume. Changing this creates a new volume.

- volume_type (Optional) The type of volume to create. Available types are SSD, SAS and SATA. Changing this creates a new volume.
- cascade (Optional, Default:false) Specifies to delete all snapshots associated with the EVS disk.

The following attributes are exported:

- region See Argument Reference above.
- size See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- availability_zone See Argument Reference above.
- image_id See Argument Reference above.
- source_vol_id See Argument Reference above.
- snapshot_id See Argument Reference above.
- metadata See Argument Reference above.
- volume_type See Argument Reference above.
- attachment If a volume is attached to an instance, this attribute will display the Attachment ID, Instance ID, and the Device as the Instance sees it.

» Import

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

\$ terraform import huaweicloud_blockstorage_volume_v2.volume_1 ea257959-eeb1-4c10-8d33-26f04

> huaweicloud_fgs_function_v2

Manages a V2 function resource within HuaweiCloud.

```
resource "huaweicloud_fgs_function_v2" "f_1" {
  name = "func_1"
  package = "default"
  description = "fuction test"
  handler = "test.handler"
  memory_size = 128
  timeout = 3
```

```
runtime = "Python2.7"
code_type = "inline"
func_code = "aW1wb3J0IGpzb24KZGVmIGhhbmRsZXIgKGV2ZW50LCBjb250ZXh0KToKICAgIG91dHB1dCA9ICdIZ
}
```

- name (Required) A unique name for the function. Changing this creates a new function.
- package (Required) Group to which the function belongs. Changing this creates a new function.
- code_type (Required) Function code type, which can be inline: inline code, zip: ZIP file, jar: JAR file or java functions, obs: function code stored in an OBS bucket. Changing this creates a new function.
- code_url (Optional) This parameter is mandatory when code_type is set to obs. Changing this creates a new function.
- description (Optional) Description of the function. Changing this creates a new function.
- code_filename (Optional) Name of a function file, This field is mandatory only when coe_type is set to jar or zip. Changing this creates a new function.
- handler (Required) Entry point of the function. Changing this creates a new function.
- memory_size (Required) Memory size(MB) allocated to the function. Changing this creates a new function.
- runtime (Required) Environment for executing the function. Changing this creates a new function.
- timeout (Required) Timeout interval of the function, ranges from 3s to 900s. Changing this creates a new function.
- user_data (Optional) Key/Value information defined for the function. Changing this creates a new function.
- xrole (Optional) This parameter is mandatory if the function needs to access other cloud services. Changing this creates a new function.
- func_code (Required) Function code. When code_type is set to inline, zip, or jar, this parameter is mandatory, and the code must be encoded using Base64. Changing this creates a new function.

The following attributes are exported:

- name See Argument Reference above.
- package See Argument Reference above.
- code_type See Argument Reference above.
- code_url See Argument Reference above.
- description See Argument Reference above.
- code_filename See Argument Reference above.
- handler See Argument Reference above.
- memory_size See Argument Reference above.
- runtime See Argument Reference above.
- timeout See Argument Reference above.
- user_data See Argument Reference above.
- xrole See Argument Reference above.
- func_code See Argument Reference above.

» Import

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

» huaweicloud ges graph v1

graph management

» Example Usage

» create an empty graph

```
subnet_id = "{{ network_id }}"
vpc_id = "{{ vpc_id }}"
}
```

The following arguments are supported:

- availability_zone (Required) Indicates availability zone. Changing this parameter will create a new resource.
- graph_size_type (Required) Indicates the graph size type. 0: indicates 10 thousand edges. 1: indicates 1 million edges. 2: indicates 10 million edges. 3: indicates 100 million edges. 4: indicates 1 billion edges. 5: indicates 10 billion edges. 6: indicates 100 billion edges. Changing this parameter will create a new resource.
- name (Required) Indicates the graph name. Changing this parameter will create a new resource.
- region (Required) Indicates the region code. Changing this parameter will create a new resource.
- security_group_id (Required) Indicates the security group ID. Changing this parameter will create a new resource.
- subnet_id (Required) Indicates the subnet ID in the specified VPC. Changing this parameter will create a new resource.
- vpc_id (Required) Indicates the VPC ID. Changing this parameter will create a new resource.
- auto_assign (Optional) Indicates whether to assign a new eip to the graph automatically. Changing this parameter will create a new resource.
- eip_id (Optional) Indicates the ID of an EIP. Changing this parameter will create a new resource.

» Attributes Reference

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

- created Indicates the time when a graph is created.
- edgeset_path Indicates the OBS path of the edge data set. Structure is documented below.

- private_ip Indicates the private network access address of a graph instance. Users can access the instance using the IP address through the ECS deployed on the private network.
- public_ip Indicates the public network access address of a graph instance. Users can access the instance using the IP address from the Internet.
- schema_path Indicates the path for storing the metadata file. Structure is documented below.
- version Indicates the graph version.
- vertexset_path Indicates the OBS path of the vertex data set. Structure is documented below.

The edgeset path block contains:

- path Indicates the OBS storage path, excluding OBS endpoint.
- status Indicates the OBS file import status: success: Imported successfully. partiallyFailed: Partially failed. failed: Failed to import the file.

The schema_path block contains:

- path Indicates the OBS storage path, excluding OBS endpoint.
- status Indicates the OBS file import status: success: Imported successfully. partiallyFailed: Partially failed. failed: Failed to import the file

The vertexset_path block contains:

- path Indicates the OBS storage path, excluding OBS endpoint.
- status Indicates the OBS file import status: success: Imported successfully. partiallyFailed: Partially failed. failed: Failed to import the file.

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 30 minute. - delete - Default is 30 minute.

» huaweicloud_identity_role_v3

Use this data source to get the ID of an HuaweiCloud role.

The Role in Terraform is the same as Policy on console. however, The policy name is the display name of Role, the Role name cannot be found on Console. please refer to the following table to configuration Role:

Role Name	Policy Name
readonly	Tenant Guest
tms_adm	TMS Administrator
cce_adm	CCE Administrator
dcs admin	DCS Administrator
dis_adm	DIS Administrator
system_all_6	VPC Viewer
rds adm	RDS Administrator
system_all_1001	Full Access
system_all_3	EVS Viewer
te_agency	Agent Operator
dms_adm	DMS Administrator
ces adm	CES Administrator
rts adm	RTS Administrator
system_all_5	VPC Admin
dns_adm	DNS Administrator
server_adm	Server Administrator
sdrs adm	SDRS Administrator
system_all_0	ECS Admin
wks_adm	Workspace Administrator
te_admin	Tenant Administrator
sfs adm	SFS Administrator
vpc _netadm	VPC Administrator
css_adm	CSS Administrator
as_adm	AutoScaling Administrator
csbs adm	CSBS Administrator
secu admin	Security Administrator
system_all_2	ECS Viewer
dws_adm	DWS Administrator
mobs_adm	MaaS OBS Administrator
vbs_adm	VBS Administrator
$ddos_adm$	Anti-DDoS Administrator
$system_all_4$	EVS Admin
system_all_1	ECS User
dws_db_acc	DWS Database Access
kms_adm	KMS Administrator
mrs_adm	MRS Administrator
nat_adm	NAT Gateway Administrator
dds_adm	DDS Administrator
ims_adm	IMS Administrator
smn_adm	SMN Administrator

Role Name	Policy Name
plas_adm	Config Plas Connector
elb_adm	ELB Administrator

```
data "huaweicloud_identity_role_v3" "auth_admin" {
  name = "secu_admin"
}
```

- name The name of the role.
- domain_id (Optional) The domain the role belongs to.

» Attributes Reference

id is set to the ID of the found role. In addition, the following attributes are exported:

- name See Argument Reference above.
- domain_id See Argument Reference above.
- region See Argument Reference above.

> huaweicloud_identity_group_v3

Manages a User Group resource within HuaweiCloud IAM service.

Note: You must have admin privileges in your HuaweiCloud cloud to use this resource.

» Example Usage

» Argument Reference

- name (Required) The name of the group. The length is less than or equal to 64 bytes
- description (Optional) A description of the group.
- domain_id (Optional) The domain this group belongs to.
- region (Optional) The region in which to obtain the V3 Keystone client. If omitted, the region argument of the provider is used. Changing this creates a new User Group.

The following attributes are exported:

• domain_id - See Argument Reference above.

» Import

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

 $\$\ terraform\ import\ huaweicloud_identity_group_v3.group_1\ 89c60255-9bd6-460c-822a-e2b959ede9colored$

» huaweicloud_identity_group_membership_v3

Manages a User Group Membership resource within HuaweiCloud IAM service.

Note: You must have admin privileges in your HuaweiCloud cloud to use this resource.

```
name = "user2"
enabled = true
password = "password12345!"
}

resource "huaweicloud_identity_group_membership_v3" "membership_1" {
   group = "${huaweicloud_identity_group_v3.group_1.id}"
   users = ["${huaweicloud_identity_user_v3.user_1.id}",
        "${huaweicloud_identity_user_v3.user_2.id}"
   ]
}
```

The following arguments are supported:

- group (Required) The group ID of this membership.
- users (Required) A List of user IDs to associate to the group.

» Attributes Reference

The following attributes are exported:

- group See Argument Reference above.
- users See Argument Reference above.

» huaweicloud_identity_project_v3

Manages a Project resource within HuaweiCloud Identity And Access Management service.

Note: You *must* have security admin privileges in your HuaweiCloud cloud to use this resource. please refer to User Management Model

The following arguments are supported:

- name (Required) The name of the project. it must start with ID of an existing region_ and be less than or equal to 64 characters. Example: eu-de_project1.
- description (Optional) A description of the project.
- domain_id (Optional) The domain this project belongs to. Changing this creates a new Project.
- parent_id (Optional) The parent of this project. Changing this creates a new Project.
- region (Optional) The region in which to obtain the IAM client. If omitted, the region argument of the provider is used. Changing this creates a new Project.

» Attributes Reference

The following attributes are exported:

- domain_id See Argument Reference above.
- parent_id See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_identity_project_v3.project_1 89c60255-9bd6-460c-822a-e2b959e

$\ \ \, \text{huaweicloud_identity_role_assignment_v3}$

Manages a V3 Role assignment within group on HuaweiCloud IAM Service.

Note: You *must* have admin privileges in your HuaweiCloud cloud to use this resource.

» Example Usage: Assign Role On Project Level

```
resource "huaweicloud_identity_project_v3" "project_1" {
  name = "eu-de_project_1"
}
```

```
resource "huaweicloud_identity_group_v3" "group_1" {
 name = "group_1"
}
data "huaweicloud_identity_role_v3" "role_1" {
 name = "system_all_4" #ECS admin
}
resource "huaweicloud_identity_role_assignment_v3" "role_assignment_1" {
 group_id = "${huaweicloud_identity_group_v3.group_1.id}"
 project_id = "${huaweicloud_identity_project_v3.project_1.id}"
 role_id = "${data.huaweicloud_identity_role_v3.role_1.id}"
}
» Example Usage: Assign Role On Domain Level
variable "domain_id" {
 default
            = "01aafcf63744d988ebef2b1e04c5c34"
 description = "this is the domain id"
}
resource "huaweicloud_identity_group_v3" "group_1" {
 name = "group_1"
}
data "huaweicloud_identity_role_v3" "role_1" {
 name = "secu_admin" #security admin
resource "huaweicloud_identity_role_assignment_v3" "role_assignment_1" {
 group_id = "${huaweicloud_identity_group_v3.group_1.id}"
 domain_id = "${var.domain_id}"
```

}

The following arguments are supported:

• domain_id - (Optional; Required if project_id is empty) The domain to assign the role in.

role_id = "\${data.huaweicloud_identity_role_v3.role_1.id}"

• group_id - (Optional; Required if user_id is empty) The group to assign the role to.

- project_id (Optional; Required if domain_id is empty) The project to assign the role in.
- role_id (Required) The role to assign.

The following attributes are exported:

- domain id See Argument Reference above.
- project_id See Argument Reference above.
- group_id See Argument Reference above.
- role_id See Argument Reference above.

» huaweicloud_identity_user_v3

Manages a User resource within HuaweiCloud IAM service.

Note: You must have admin privileges in your HuaweiCloud cloud to use this resource.

» Example Usage

» Argument Reference

- name (Required) The name of the user. The user name consists of 5 to 32 characters. It can contain only uppercase letters, lowercase letters, digits, spaces, and special characters (-_) and cannot start with a digit.
- description (Optional) A description of the user.
- default_project_id (Optional) The default project this user belongs to.
- domain_id (Optional) The domain this user belongs to.

- enabled (Optional) Whether the user is enabled or disabled. Valid values are true and false.
- password (Optional) The password for the user. It must contain at least two of the following character types: uppercase letters, lowercase letters, digits, and special characters.
- region (Optional) The region in which to obtain the V3 Keystone client. If omitted, the region argument of the provider is used. Changing this creates a new User.

The following attributes are exported:

• domain_id - See Argument Reference above.

» Import

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

» huaweicloud_iam_agency_v3

Manages an agency resource within huawei cloud.

```
.
}
```

Note: It can not set tenant_name in provider "huaweicloud" when using this resource.

» Argument Reference

The following arguments are supported:

- name (Required) The name of agency. The name is a string of 1 to 64 characters.
- description (Optional) Provides supplementary information about the agency. The value is a string of 0 to 255 characters.
- delegated_domain_name (Required) The name of delegated domain.
- project_role (Optional) An array of roles and projects which are used to grant permissions to agency on project. The structure is documented below.
- domain_roles (optional) An array of role names which stand for the permission is to be granted to agency on domain.

The project_role block supports:

- project (Required) The name of project
- roles (Required) An array of role names

note: one or both of project_role and domain_roles must be input when creating an agency.

» Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- description See Argument Reference above.
- delegated_domain_name See Argument Reference above.
- project_role See Argument Reference above.
- domain_roles See Argument Reference above.
- duration Validity period of an agency. The default value is null, indicating that the agency is permanently valid.
- expire_time The expiration time of agency
- create_time The time when the agency was created.
- id The agency ID.

» huaweicloud_images_image_v2

Use this data source to get the ID of an available HuaweiCloud image.

» Example Usage

» Argument Reference

- region (Optional) The region in which to obtain the V2 Glance client. A Glance client is needed to create an Image that can be used with a compute instance. If omitted, the region argument of the provider is used.
- most_recent (Optional) If more than one result is returned, use the most recent image.
- name (Optional) The name of the image.
- owner (Optional) The owner (UUID) of the image.
- size_min (Optional) The minimum size (in bytes) of the image to return.
- size_max (Optional) The maximum size (in bytes) of the image to return.
- sort_direction (Optional) Order the results in either asc or desc.
- sort_key (Optional) Sort images based on a certain key. Must be one of "name", "container_format", "disk_format", "status", "id" or "size". Defaults to name.
- tag (Optional) Search for images with a specific tag.
- visibility (Optional) The visibility of the image. Must be one of "public", "private", "community", or "shared". Defaults to private.

» Attributes Reference

id is set to the ID of the found image. In addition, the following attributes are exported:

- checksum The checksum of the data associated with the image.
- created_at The date the image was created.

- container_format: The format of the image's container.
- disk_format: The format of the image's disk.
- file the trailing path after the glance endpoint that represent the location of the image or the path to retrieve it.
- metadata The metadata associated with the image. Image metadata allow for meaningfully define the image properties and tags.
- min_disk_gb The minimum amount of disk space required to use the image.
- min_ram_mb The minimum amount of ram required to use the image.
- properties Freeform information about the image.
- protected Whether or not the image is protected.
- schema The path to the JSON-schema that represent the image or image
- size_bytes The size of the image (in bytes).
- tags See Argument Reference above.
- update_at The date the image was last updated.

» huaweicloud_images_image_v2

Manages a V2 Image resource within HuaweiCloud IMS.

» Example Usage

» Argument Reference

The following arguments are supported:

- container_format (Required) The container format. Must be "bare".
- disk_format (Required) The disk format. Must be one of "qcow2", "vhd".
- local_file_path (Optional) This is the filepath of the raw image file that will be uploaded to Glance. Conflicts with image_source_url.

- image_cache_path (Optional) This is the directory where the images will be downloaded. Images will be stored with a filename corresponding to the url's md5 hash. Defaults to "\$HOME/.terraform/image_cache"
- image_source_url (Optional) This is the url of the raw image that will be downloaded in the image_cache_path before being uploaded to Glance. Glance is able to download image from internet but the golangsdk library does not yet provide a way to do so. Conflicts with local_file_path.
- min_disk_gb (Optional) Amount of disk space (in GB) required to boot image. Defaults to 0.
- min_ram_mb (Optional) Amount of ram (in MB) required to boot image.
 Defauts to 0.
- name (Required) The name of the image.
- protected (Optional) If true, image will not be deletable. Defaults to false.
- region (Optional) The region in which to obtain the V2 Glance client. A Glance client is needed to create an Image that can be used with a compute instance. If omitted, the region argument of the provider is used. Changing this creates a new Image.
- tags (Optional) The tags of the image. It must be a list of strings. At this time, it is not possible to delete all tags of an image.
- visibility (Optional) The visibility of the image. Must be "private". The ability to set the visibility depends upon the configuration of the HuaweiCloud cloud.

Note: The **properties** attribute handling in the golangsdk library is currently buggy and needs to be fixed before being implemented in this resource.

» Attributes Reference

The following attributes are exported:

- checksum The checksum of the data associated with the image.
- container_format See Argument Reference above.
- created_at The date the image was created.
- disk_format See Argument Reference above.
- file the trailing path after the glance endpoint that represent the location of the image or the path to retrieve it.
- id A unique ID assigned by Glance.
- metadata The metadata associated with the image. Image metadata allow for meaningfully define the image properties and tags. See http://docs.openstack.org/developer/glance/metadefs-concepts.html.
- min_disk_gb See Argument Reference above.

- min_ram_mb See Argument Reference above.
- name See Argument Reference above.
- owner The id of the huaweicloud user who owns the image.
- protected See Argument Reference above.
- region See Argument Reference above.
- schema The path to the JSON-schema that represent the image or image
- size_bytes The size in bytes of the data associated with the image.
- status The status of the image. It can be "queued", "active" or "saving".
- tags See Argument Reference above.
- update_at The date the image was last updated.
- visibility See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_images_image_v2.rancheros 89c60255-9bd6-460c-822a-e2b959ede9c

» huaweicloud_kms_data_key_v1

Use this data source to get the plaintext and the ciphertext of an available HuaweiCloud KMS DEK (data encryption key).

» Example Usage

» Argument Reference

• key_id - (Required) The globally unique identifier for the key. Changing this gets the new data encryption key.

- encryption_context (Optional) The value of this parameter must be a series of "key:value" pairs used to record resource context information. The value of this parameter must not contain sensitive information and must be within 8192 characters in length. Example: {"Key1":"Value1","Key2":"Value2"}
- datakey_length (Required) Number of bits in the length of a DEK (data encryption keys). The maximum number is 512. Changing this gets the new data encryption key.

» Attributes Reference

id is set to the date of the found data key. In addition, the following attributes are exported:

- plain_text The plaintext of a DEK is expressed in hexadecimal format, and two characters indicate one byte.
- cipher_text The ciphertext of a DEK is expressed in hexadecimal format, and two characters indicate one byte.

» huaweicloud_kms_key_v1

Use this data source to get the ID of an available HuaweiCloud KMS key.

» Example Usage

» Argument Reference

- key_alias (Optional) The alias in which to create the key. It is required when we create a new key. Changing this gets the new key.
- key_description (Optional) The description of the key as viewed in Huawei console. Changing this gets a new key.

- realm (Optional) Region where a key resides. Changing this gets a new key.
- key_id (Optional) The globally unique identifier for the key. Changing this gets the new key.
- default_key_flag (Optional) Identification of a Master Key. The value "1" indicates a Default Master Key, and the value "0" indicates a key. Changing this gets a new key.
- key_state (Optional) The state of a key. "1" indicates that the key is waiting to be activated. "2" indicates that the key is enabled. "3" indicates that the key is disabled. "4" indicates that the key is scheduled for deletion. Changing this gets a new key.
- domain_id (Optional) ID of a user domain for the key. Changing this gets a new key.

» Attributes Reference

id is set to the ID of the found key. In addition, the following attributes are exported:

- key_alias See Argument Reference above.
- key_description See Argument Reference above.
- realm See Argument Reference above.
- key_id See Argument Reference above.
- default_key_flag See Argument Reference above.
- scheduled_deletion_date Scheduled deletion time (time stamp) of a key.
- domain_id See Argument Reference above.
- expiration time Expiration time.
- creation_date Creation time (time stamp) of a key.
- key_state See Argument Reference above.

» huaweicloud_kms_key_v1

Manages a V1 key resource within KMS.

» Example Usage

```
resource "huaweicloud_kms_key_v1" "key_1" {
  key_alias = "key_1"
  pending_days = "7"
  key_description = "first test key"
```

```
realm = "cn-north-1"
is_enabled = true
}
```

The following arguments are supported:

- key_alias (Required) The alias in which to create the key. It is required when we create a new key. Changing this updates the alias of key.
- key_description (Optional) The description of the key as viewed in Huawei console. Changing this updates the description of key.
- realm (Optional) Region where a key resides. Changing this creates a new key.
- pending_days (Optional) Duration in days after which the key is deleted after destruction of the resource, must be between 7 and 1096 days. It doesn't have default value. It only be used when delete a key.
- is_enabled (Optional) Specifies whether the key is enabled. Defaults to true. Changing this updates the state of existing key.

» Attributes Reference

The following attributes are exported:

- key_alias See Argument Reference above.
- key_description See Argument Reference above.
- realm See Argument Reference above.
- key_id The globally unique identifier for the key.
- default_key_flag Identification of a Master Key. The value 1 indicates a Default Master Key, and the value 0 indicates a key.
- scheduled_deletion_date Scheduled deletion time (time stamp) of a key.
- domain_id ID of a user domain for the key.
- expiration_time Expiration time.
- creation_date Creation time (time stamp) of a key.
- is_enabled See Argument Reference above.

» Import

KMS Keys can be imported using the id, e.g.

\$ terraform import huaweicloud_kms_key_v1.key_1 7056d636-ac60-4663-8a6c-82d3c32c1c64

» huaweicloud_mls_instance

mls instance

» Example Usage

» Mls Instance Example

```
resource "huaweicloud_mrs_cluster_v1" "cluster1" {
  cluster_name = "mrs-cluster-acc"
                       = "en-OS REGION NAME"
 region
                       = 12
 billing_type
                       = 2
 master_node_num
                        = 3
 core_node_num
 master_node_size = "s1.4xlarge.linux.mrs"
core_node_size = "s1.xlarge.linux.mrs"
 available_zone_id = "{{ availability_zone }}"
vpc_id = "{{ vpc_id }}"
                       = "{{ network_id }}"
  subnet_id
                     = "MRS 1.3.0"
  cluster_version
                        = "SATA"
 volume_type
                        = 100
 volume_size
 safe_mode
                        = 0
                       = 0
  cluster_type
 node_public_cert_name = "KeyPair-ci"
  cluster_admin_secret = ""
  component_list {
    component_name = "Hadoop"
  component_list {
    component_name = "Spark"
  component_list {
    component_name = "Hive"
 timeouts {
    create = "60m"
}
resource "huaweicloud_mls_instance" "instance" {
 name = "terraform-mls-instancei"
 version = "1.5.0"
 flavor = "mls.c2.2xlarge.common"
```

The following arguments are supported:

- flavor (Required) Instance flavor
- mrs_cluster (Required) A nested object resource Structure is documented below.
- name (Required) Instance name. A tenant has a unique name of the instance of one type. Value range: An instance name must contain 4 to 64 characters and must start with a letter. The name is case insensitive and contains only letters, digits, and hyphens (-) or underscores (_), excluding other special characters.
- network (Required) A nested object resource Structure is documented below.
- version (Required) Instance version

The mrs_cluster block supports:

- id (Required) MRS cluster ID
- user_name (Optional) MRS cluster username. This parameter is mandatory only when the MRS cluster is in the security mode
- user_password (Optional) Password of the MRS cluster user

The network block supports:

- available_zone (Required) az
- network_id (Required) ID of the subnet where the instance resides

- public_ip (Required) A nested object resource Structure is documented below
- security_group_id (Optional) ID of the security group of the instance
- vpc_id (Required) ID of the virtual private cloud (VPC) where the instance resides

The public_ip block supports:

- bind_type (Required) Bind type. Possible values: auto_assign, not_use
- eip_id EIP ID. This parameter value is returned only when bindType is set to auto_assign
- agency (Optional) Agency name. This parameter is mandatory only when you bind an instance to an elastic IP address (EIP). An instance must be bound to an EIP to grant MLS rights to obtain a tenant's token.

» Attributes Reference

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

- created Time when the instance is created. The parameter format is yyyy-mm-dd Thh:mm:ssZ. In the format, T indicates a time start point and Z specifies a UTC offset, for example, the Beijing time offset is +0800
- current_task Instance task status. Possible values: UNFREEZING FREEZING RESTORING SNAPSHOTTING GROWING REBOOTING REBOOT_FAILURE RESIZE_FAILURE
- id instance id
- inner_endpoint URL for accessing the instance. Only machines in the same VPC and subnet as the instance can access the URL
- public_endpoint URL for accessing the instance. The URL can be accessed from the Internet. The URL is created only after the instance is bound to an EIP.
- status Instance status. Possible values: CREATING AVAILABLE FAILED CREATION FAILED
- updated Time when the instance is updated. The parameter format is the same as the format of the created parameter

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 10 minute. - delete - Default is 10 minute.

» Import

Instance can be imported using the following format:

```
$ terraform import huaweicloud_mls_instance.default {{ resource id}}
```

» huaweicloud_mrs_cluster_v1

Manages resource cluster within HuaweiCloud MRS.

» Example Usage: Creating a MRS cluster

```
resource "huaweicloud_mrs_cluster_v1" "cluster1" {
  cluster_name = "mrs-cluster"
 region
                       = "cn-north-1"
                      = 12
 billing_type
 master_node_num
                       = 2
                        = 3
 core_node_num
                     = "c3.4xlarge.2.linux.bigdata"
= "c3.xlarge.4.linux.bigdata"
 master_node_size
  core_node_size
  available_zone_id
                        = "ae04cf9d61544df3806a3feeb401b204"
                        = "51edfb75-f9f0-4bbc-b4dc-21466b93f60d"
  vpc_id
                        = "1d7a8646-43ee-455a-a3ab-40da87a1304c"
  subnet_id
                        = "MRS 1.6.3"
  cluster_version
                        = "SATA"
 volume_type
                        = 100
  volume_size
  safe_mode
                        = 0
                        = 0
  cluster_type
 node_public_cert_name = "KeyPair-ci"
  cluster_admin_secret = ""
  component_list {
    component_name = "Hadoop"
  component list {
    component_name = "Spark"
  component_list {
    component_name = "Hive"
```

```
}
}
```

The following arguments are supported:

- billing_type (Required) The value is 12, indicating on-demand payment.
- region (Required) Cluster region information. Obtain the value from Regions and Endpoints.
- master_node_num (Required) Number of Master nodes The value is 2.
- master_node_size (Required) Best match based on several years of commissioning experience. MRS supports specifications of hosts, and host specifications are determined by CPUs, memory, and disks space. MRS supports instance specifications detailed in MRS specifications
- core_node_num (Required) Number of Core nodes Value range: 3 to 100 A maximum of 100 Core nodes are supported by default. If more than 100 Core nodes are required, contact technical support engineers or invoke background APIs to modify the database.
- core_node_size (Required) Instance specification of a Core node Configuration method of this parameter is identical to that of master_node_size.
- available_zone_id (Required) ID of an available zone. Obtain the value from Regions and Endpoints. North China AZ1 (cn-north-1a): ae04cf9d61544df3806a3feeb401b204, North China AZ2 (cn-north-1b): d573142f24894ef3bd3664de068b44b0, China AZ1 East (cn-east-2a): 72d50cedc49846b9b42c21495f38d81c, East China AZ2(cn-east-2b): 38b0f7a602344246bcb0da47b5d548e7, East China AZ3(cn-east-2c): 5547fd6bf8f84bb5a7f9db062ad3d015, South China AZ1(cn-south-1a): 34f5ff4865cf4ed6b270f15382ebdec5, South China AZ2(cn-south-2b): 043c7e39ecb347a08dc8fcb6c35a274e, South China AZ3(cn-south-1c): af1687643e8c4ec1b34b688e4e3b8901,
- cluster_name (Required) Cluster name, which is globally unique and contains only 1 to 64 letters, digits, hyphens (-), and underscores ().
- vpc_id (Required) ID of the VPC where the subnet locates Obtain the VPC ID from the management console as follows: Register an account and log in to the management console. Click Virtual Private Cloud and select Virtual Private Cloud from the left list. On the Virtual Private Cloud page, obtain the VPC ID from the list.
- subnet_id (Required) Subnet ID Obtain the subnet ID from the management console as follows: Register an account and log in to the man-

- agement console. Click Virtual Private Cloud and select Virtual Private Cloud from the left list. On the Virtual Private Cloud page, obtain the subnet ID from the list.
- cluster_version (Optional) Version of the clusters Currently, MRS 1.6.3, MRS 1.7.2 and MRS 1.8.1 are supported. The latest version of MRS is used by default. Currently, the latest version is MRS 1.8.1.
- cluster_type (Optional) Type of clusters 0: analysis cluster 1: streaming cluster The default value is 0.
- volume_type (Required) Type of disks SATA and SSD are supported.
 SATA: common I/O SSD: super high-speed I/O
- volume_size (Required) Data disk storage space of a Core node Users can add disks to expand storage capacity when creating a cluster. There are the following scenarios: Separation of data storage and computing: Data is stored in the OBS system. Costs of clusters are relatively low but computing performance is poor. The clusters can be deleted at any time. It is recommended when data computing is not frequently performed. Integration of data storage and computing: Data is stored in the HDFS system. Costs of clusters are relatively high but computing performance is good. The clusters cannot be deleted in a short term. It is recommended when data computing is frequently performed. Value range: 100 GB to 32000 GB
- node_public_cert_name (Required) Name of a key pair You can use a key to log in to the Master node in the cluster.
- safe_mode (Required) MRS cluster running mode 0: common mode The value indicates that the Kerberos authentication is disabled. Users can use all functions provided by the cluster. 1: safe mode The value indicates that the Kerberos authentication is enabled. Common users cannot use the file management or job management functions of an MRS cluster and cannot view cluster resource usage or the job records of Hadoop and Spark. To use these functions, the users must obtain the relevant permissions from the MRS Manager administrator. The request has the cluster_admin_secret parameter only when safe mode is set to 1.
- cluster_admin_secret (Optional) Indicates the password of the MRS Manager administrator. The password for MRS 1.5.0: Must contain 6 to 32 characters. Must contain at least two types of the following: Lowercase letters Uppercase letters Digits Special characters of ~!@#\$%^&*()-_=+\\[{{}}];:'",<.>/? Spaces Must be different from the username written in reverse order. The password for MRS 1.3.0: Must contain 8 to 64 characters. Must contain at least four types of the following: Lowercase letters Uppercase letters Digits Special characters of~!@#\$%\&*()-_=+\\[{{}}];:'",<.>/? Spaces Must be

different from the username. Must be different from the username written in reverse order. This parameter needs to be configured only when safe mode is set to 1.

- log_collection (Optional) Indicates whether logs are collected when cluster installation fails. 0: not collected 1: collected The default value is 0. If log_collection is set to 1, OBS buckets will be created to collect the MRS logs. These buckets will be charged.
- component_list (Required) Service component list.
- add_jobs (Optional) You can submit a job when you create a cluster to save time and use MRS easily. Only one job can be added.

The component_list block supports:

• component_name - (Required) Component name Currently, Hadoop, Spark, HBase, Hive, Hue, Loader, Flume, Kafka and Storm are supported.

The add_jobs block supports: * job_type - (Required) Job type 1: MapReduce 2: Spark 3: Hive Script 4: HiveQL (not supported currently) 5: DistCp, importing and exporting data (not supported in this API currently). 6: Spark Script 7: Spark SQL, submitting Spark SQL statements (not supported in this API currently). NOTE: Spark and Hive jobs can be added to only clusters including Spark and Hive components.

- job_name (Required) Job name It contains only 1 to 64 letters, digits, hyphens (-), and underscores (_). NOTE: Identical job names are allowed but not recommended.
- jar_path (Required) Path of the .jar file or .sql file for program execution The parameter must meet the following requirements: Contains a maximum of 1023 characters, excluding special characters such as ;|&><'\$. The address cannot be empty or full of spaces. Starts with / or s3a://. Spark Script must end with .sql; while MapReduce and Spark Jar must end with .jar. sql and jar are case-insensitive.
- arguments (Optional) Key parameter for program execution The parameter is specified by the function of the user's program. MRS is only responsible for loading the parameter. The parameter contains a maximum of 2047 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- input (Optional) Path for inputting data, which must start with / or s3a://. A correct OBS path is required. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- output (Optional) Path for outputting data, which must start with / or s3a://. A correct OBS path is required. If the path does not exist, the

system automatically creates it. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.

- job_log (Optional) Path for storing job logs that record job running status. This path must start with / or s3a://. A correct OBS path is required. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- shutdown_cluster (Optional) Whether to delete the cluster after the jobs are complete true: Yes false: No
- file_action (Optional) Data import and export import export
- submit_job_once_cluster_run (Required) true: A job is submitted when a cluster is created. false: A job is submitted separately. The parameter is set to true in this example.
- hql (Optional) HiveQL statement
- hive_script_path (Optional) SQL program path This parameter is needed by Spark Script and Hive Script jobs only and must meet the following requirements: Contains a maximum of 1023 characters, excluding special characters such as ;|&><'\\$. The address cannot be empty or full of spaces. Starts with / or s3a://. Ends with .sql. sql is case-insensitive.

» Attributes Reference

The following attributes are exported:

- billing type See Argument Reference above.
- data_center See Argument Reference above.
- master node num See Argument Reference above.
- master_node_size See Argument Reference above.
- core_node_num See Argument Reference above.
- core_node_size See Argument Reference above.
- available_zone_id See Argument Reference above.
- cluster_name See Argument Reference above.
- vpc_id See Argument Reference above.
- subnet_id See Argument Reference above.
- cluster_version See Argument Reference above.
- cluster_type See Argument Reference above.
- volume_type See Argument Reference above.
- volume_size See Argument Reference above.
- node_public_cert_name See Argument Reference above.
- safe_mode See Argument Reference above.
- cluster admin secret See Argument Reference above.
- log collection See Argument Reference above.

- component_list See Argument Reference below.
- add_jobs See Argument Reference above.
- order id Order ID for creating clusters.
- cluster_id Cluster ID.
- available_zone_name Name of an availability zone.
- instance_id Instance ID.
- hadoop_version Hadoop version.
- master_node_ip IP address of a Master node.
- external IP address.
- private_ip_first Primary private IP address.
- external_ip External IP address.
- slave_security_groups_id Standby security group ID.
- security_groups_id Security group ID.
- external alternate ip Backup external IP address.
- master_node_spec_id Specification ID of a Master node.
- core_node_spec_id Specification ID of a Core node.
- master_node_product_id Product ID of a Master node.
- core_node_product_id Product ID of a Core node.
- duration Cluster subscription duration.
- vnc URI address for remote login of the elastic cloud server.
- fee Cluster creation fee, which is automatically calculated.
- deployment_id Deployment ID of a cluster.
- cluster_state Cluster status Valid values include: existing history starting running terminated failed abnormal terminating rebooting shutdown frozen scaling-out scaling-in scaling-error.
- tenant id Project ID.
- create_at Cluster creation time.
- update_at Cluster update time.
- error_info Error information.
- charging_start_time Time when charging starts.
- remark Remarks of a cluster.

The component_list attributes: * component_name - (Required) Component name Currently, Hadoop, Spark, HBase, Hive, Hue, Loader, Flume, Kafka and Storm are supported.

» huaweicloud_mrs_job_v1

Manages resource job within HuaweiCloud MRS.

» Example Usage

```
resource "huaweicloud_mrs_job_v1" "job1" {
  job_type = 1
```

```
job_name = "test_mapreduce_job1"
cluster_id = "ef43d2ff-1ecf-4f13-bd0c-0004c429a058"
jar_path = "s3a://wordcount/program/hadoop-mapreduce-examples-2.7.5.jar"
input = "s3a://wordcount/input/"
output = "s3a://wordcount/output/"
job_log = "s3a://wordcount/log/"
arguments = "wordcount"
}
```

The following arguments are supported:

- job_type (Required) Job type 1: MapReduce 2: Spark 3: Hive Script 4: HiveQL (not supported currently) 5: DistCp, importing and exporting data. 6: Spark Script 7: Spark SQL, submitting Spark SQL statements. (not supported in this APIcurrently) NOTE: Spark and Hive jobs can be added to only clusters including Spark and Hive components.
- job_name (Required) Job name Contains only 1 to 64 letters, digits, hyphens (-), and underscores (_). NOTE: Identical job names are allowed but not recommended.
- cluster_id (Required) Cluster ID
- jar_path (Required) Path of the .jar package or .sql file for program execution The parameter must meet the following requirements: Contains a maximum of 1023 characters, excluding special characters such as ;|&><'\$. The address cannot be empty or full of spaces. Starts with / or s3a://. Spark Script must end with .sql; while MapReduce and Spark Jar must end with .jar. sql and jar are case-insensitive.
- arguments (Optional) Key parameter for program execution. The parameter is specified by the function of the user's program. MRS is only responsible for loading the parameter. The parameter contains a maximum of 2047 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- input (Optional) Path for inputting data, which must start with / or s3a://. A correct OBS path is required. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- output (Optional) Path for outputting data, which must start with / or s3a://. A correct OBS path is required. If the path does not exist, the system automatically creates it. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.

- job_log (Optional) Path for storing job logs that record job running status. This path must start with / or s3a://. A correct OBS path is required. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- hive_script_path (Optional) SQL program path This parameter is needed by Spark Script and Hive Script jobs only and must meet the following requirements: Contains a maximum of 1023 characters, excluding special characters such as ;|&><'\\$. The address cannot be empty or full of spaces. Starts with / or s3a://. Ends with .sql. sql is case-insensitive.
- is_protected (Optional) Whether a job is protected true false The current version does not support this function.
- is_public (Optional) Whether a job is public true false The current version does not support this function.

» Attributes Reference

The following attributes are exported:

- job_type See Argument Reference above.
- job_name See Argument Reference above.
- cluster_id See Argument Reference above.
- jar_path See Argument Reference above.
- arguments See Argument Reference above.
- input See Argument Reference above.
- output See Argument Reference above.
- job log See Argument Reference above.
- hive_script_path See Argument Reference above.
- is_protected See Argument Reference above.
- is_public See Argument Reference above.

» huaweicloud_nat_gateway_v2

Manages a V2 nat gateway resource within HuaweiCloud Nat

» Example Usage

```
internal_network_id = "dc8632e2-d9ff-41b1-aa0c-d455557314a0"
}
```

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 nat client. If omitted, the region argument of the provider is used. Changing this creates a new nat gateway.
- name (Required) The name of the nat gateway.
- description (Optional) The description of the nat gateway.
- spec (Required) The specification of the nat gateway, valid values are "1", "2", "3", "4".
- tenant_id (Optional) The target tenant ID in which to allocate the nat gateway. Changing this creates a new nat gateway.
- router_id (Required) ID of the router this nat gateway belongs to. Changing this creates a new nat gateway.
- internal_network_id (Optional) ID of the network this nat gateway connects to. Changing this creates a new nat gateway.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- spec See Argument Reference above.
- tenant_id See Argument Reference above.
- router_id See Argument Reference above.
- internal_network_id See Argument Reference above.

» huaweicloud_nat_snat_rule_v2

Manages a V2 snat rule resource within HuaweiCloud Nat

» Example Usage

```
resource "huaweicloud_nat_snat_rule_v2" "snat_1" {
  nat_gateway_id = "3c0dffda-7c76-452b-9dcc-5bce7ae56b17"
  network_id = "dc8632e2-d9ff-41b1-aa0c-d455557314a0"
  floating_ip_id = "0a166fc5-a904-42fb-b1ef-cf18afeeddca"
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 nat client. If omitted, the region argument of the provider is used. Changing this creates a new snat rule.
- nat_gateway_id (Required) ID of the nat gateway this snat rule belongs to. Changing this creates a new snat rule.
- network_id (Required) ID of the network this snat rule connects to. Changing this creates a new snat rule.
- floating_ip_id (Required) ID of the floating ip this snat rule connets to. Changing this creates a new snat rule.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- nat_gateway_id See Argument Reference above.
- network_id See Argument Reference above.
- floating_ip_id See Argument Reference above.

» huaweicloud_nat_dnat_rule_v2

» Example Usage

» Dnat

```
resource "huaweicloud_nat_dnat_rule_v2" "dnat_1" {
   floating_ip_id = "2bd659ab-bbf7-43d7-928b-9ee6a10de3ef"
   nat_gateway_id = "bf99c679-9f41-4dac-8513-9c9228e713e1"
   private_ip = "10.0.0.12"
```

```
internal_service_port = 993
protocol = "tcp"
external_service_port = 242
}
```

The following arguments are supported:

- floating_ip_id (Required) Specifies the ID of the floating IP address.
 Changing this creates a new resource.
- internal_service_port (Required) Specifies port used by ECSs or BMSs to provide services for external systems. Changing this creates a new resource.
- nat_gateway_id (Required) ID of the nat gateway this dnat rule belongs to. Changing this creates a new dnat rule.
- port_id (Optional) Specifies the port ID of an ECS or a BMS. This parameter and private_ip are alternative. Changing this creates a new dnat rule.
- private_ip (Optional) Specifies the private IP address of a user, for example, the IP address of a VPC for dedicated connection. This parameter and port id are alternative. Changing this creates a new dnat rule.
- protocol (Required) Specifies the protocol type. Currently, TCP, UDP, and ANY are supported. Changing this creates a new dnat rule.
- external_service_port (Required) Specifies port used by ECSs or BMSs to provide services for external systems. Changing this creates a new dnat rule.

» Attributes Reference

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

- created_at Dnat rule creation time.
- status Dnat rule status.
- floating_ip_address The actual floating IP address.

» Import

Dnat can be imported using the following format:

» huaweicloud_fw_firewall_group_v2

Manages a v2 firewall group resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_fw_rule_v2" "rule_1" {
 name = "my-rule-1"

description = "drop TELNET traffic"

action = "deny"

protocol = "tcp"
  destination_port = "23"
                    = "true"
  enabled
}
resource "huaweicloud_fw_rule_v2" "rule_2" {
 name = "my-rule-2"

description = "drop NTP traffic"

action = "deny"

protocol = "udp"
  destination_port = "123"
              = "false"
  enabled
}
resource "huaweicloud_fw_policy_v2" "policy_1" {
  name = "my-policy"
  rules = ["${huaweicloud_fw_rule_v2.rule_1.id}",
    "${huaweicloud_fw_rule_v2.rule_2.id}",
  1
}
resource "huaweicloud_fw_firewall_group_v2" "firewall_group_1" {
                     = "my-firewall-group"
  ingress_policy_id = "${huaweicloud_fw_policy_v2.policy_1.id}"
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the v2 networking client. A networking client is needed to create a firewall group. If omitted, the region argument of the provider is used. Changing this creates a new firewall group.
- ingress_policy_id The ingress policy resource id for the firewall group. Changing this updates the ingress_policy_id of an existing firewall group.
- egress_policy_id The egress policy resource id for the firewall group. Changing this updates the egress_policy_id of an existing firewall group.
- name (Optional) A name for the firewall group. Changing this updates the name of an existing firewall group.
- description (Required) A description for the firewall group. Changing this updates the description of an existing firewall group.
- admin_state_up (Optional) Administrative up/down status for the firewall group (must be "true" or "false" if provided defaults to "true"). Changing this updates the admin_state_up of an existing firewall group.
- tenant_id (Optional) The owner of the floating IP. Required if admin wants to create a firewall group for another tenant. Changing this creates a new firewall group.
- ports (Optional) Port(s) to associate this firewall group instance with. Must be a list of strings. Changing this updates the associated routers of an existing firewall group.
- value_specs (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- policy_id See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- admin_state_up See Argument Reference above.
- tenant_id See Argument Reference above.
- ports See Argument Reference above.

» Import

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

» huaweicloud_fw_policy_v2

Manages a v2 firewall policy resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_fw_rule_v2" "rule_1" {
                  = "my-rule-1"
 name = "my-rule-1"
description = "drop TELNET traffic"
 action = "deny"
protocol = "tcp"
 destination_port = "23"
                  = "true"
  enabled
}
resource "huaweicloud_fw_rule_v2" "rule_2" {
                = "my-rule-2"
 name
 description = "drop NTP traffic"
action = "deny"
 protocol = "udp"
 destination_port = "123"
                  = "false"
  enabled
}
resource "huaweicloud_fw_policy_v2" "policy_1" {
 name = "my-policy"
 rules = ["${huaweicloud_fw_rule_v2.rule_1.id}",
    "${huaweicloud_fw_rule_v2.rule_2.id}",
 ٦
}
```

» Argument Reference

The following arguments are supported:

• region - (Optional) The region in which to obtain the v2 networking client. A networking client is needed to create a firewall policy. If omitted, the region argument of the provider is used. Changing this creates a new firewall policy.

- name (Optional) A name for the firewall policy. Changing this updates the name of an existing firewall policy.
- description (Optional) A description for the firewall policy. Changing this updates the description of an existing firewall policy.
- rules (Optional) An array of one or more firewall rules that comprise the policy. Changing this results in adding/removing rules from the existing firewall policy.
- audited (Optional) Audit status of the firewall policy (must be "true" or "false" if provided defaults to "false"). This status is set to "false" whenever the firewall policy or any of its rules are changed. Changing this updates the audited status of an existing firewall policy.
- shared (Optional) Sharing status of the firewall policy (must be "true" or "false" if provided). If this is "true" the policy is visible to, and can be used in, firewalls in other tenants. Changing this updates the shared status of an existing firewall policy. Only administrative users can specify if the policy should be shared.
- tenant_id (Optional) The owner of the firewall policy. Required if admin wants to create a firewall policy for another tenant. Changing this creates a new firewall policy.
- value_specs (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- audited See Argument Reference above.
- shared See Argument Reference above.
- tenant_id See Argument Reference above.

» Import

Firewall Policies can be imported using the id, e.g.

\$ terraform import huaweicloud fw policy v2.policy 1 07f422e6-c596-474b-8b94-fe2c12506ce0

» huaweicloud fw rule v2

Manages a v2 firewall rule resource within HuaweiCloud.

» Example Usage

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the v2 Networking client. A Compute client is needed to create a firewall rule. If omitted, the region argument of the provider is used. Changing this creates a new firewall rule.
- name (Optional) A unique name for the firewall rule. Changing this updates the name of an existing firewall rule.
- description (Optional) A description for the firewall rule. Changing this updates the description of an existing firewall rule.
- protocol (Required) The protocol type on which the firewall rule operates. Valid values are: tcp, udp, icmp, and any. Changing this updates the protocol of an existing firewall rule.
- action (Required) Action to be taken (must be "allow" or "deny") when the firewall rule matches. Changing this updates the action of an existing firewall rule.
- ip_version (Optional) IP version, either 4 (default) or 6. Changing this updates the ip_version of an existing firewall rule.
- source_ip_address (Optional) The source IP address on which the firewall rule operates. Changing this updates the source_ip_address of an existing firewall rule.
- destination_ip_address (Optional) The destination IP address on which the firewall rule operates. Changing this updates the destination_ip_address of an existing firewall rule.

- source_port (Optional) The source port on which the firewall rule operates. Changing this updates the source_port of an existing firewall rule.
- destination_port (Optional) The destination port on which the firewall rule operates. Changing this updates the destination_port of an existing firewall rule.
- enabled (Optional) Enabled status for the firewall rule (must be "true" or "false" if provided defaults to "true"). Changing this updates the enabled status of an existing firewall rule.
- tenant_id (Optional) The owner of the firewall rule. Required if admin wants to create a firewall rule for another tenant. Changing this creates a new firewall rule.
- value_specs (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- protocol See Argument Reference above.
- action See Argument Reference above.
- ip_version See Argument Reference above.
- source_ip_address See Argument Reference above.
- destination ip address See Argument Reference above.
- source_port See Argument Reference above.
- destination_port See Argument Reference above.
- enabled See Argument Reference above.
- tenant_id See Argument Reference above.

» Import

Firewall Rules can be imported using the id, e.g.

\$ terraform import huaweicloud_fw_rule_v2.rule_1 8dbc0c28-e49c-463f-b712-5c5d1bbac327

» huaweicloud_maas_task_v1

Manages resource task within HuaweiCloud MAAS.

» Example Usage: Creating a MAAS task

```
resource "huaweicloud maas task v1" "task 1" {
  description = "migration task"
  enable kms = true
 thread_num = 1
  src_node {
    region = "cn-beijing"
    ak = "AK",
    sk = "SK",
    object_key = "123.txt",
    bucket = "maas-bucket",
  dst_node {
    region = "eu-de",
    ak = "AK",
    sk = "SK",
    object_key = "maas";
    bucket = "test-maas",
}
```

» Argument Reference

The following arguments are supported:

- src_node (Required) Specifies the source node information.
- dst_node (Required) Specifies the destination node information.
- enable_kms (Required) Specifies whether to use KMS encryption.
- thread_num (Required) Specifies the number of threads used by the migration task. The value cannot exceed 50.
- description (Optional) Specifies tasks description, which cannot exceed 255 characters. The following special characters are not allowed: <>()"&
- smn_info (Optional) Specifies the field used for sending messages using the Simple Message Notification (SMN) service.

The src_node block supports:

- region (Required) Specifies the region where the source bucket locates.
- ak (Required) Specifies the source bucket Access Key.
- sk (Required) Specifies the source bucket Secret Key.
- object_key (Required) Specifies the name of the object to be selected in the source bucket.
- bucket (Required) Specifies the name of the source bucket.

• cloud_type - (Optional) Specifies the source cloud vendor. Currently only Aliyun and AWS are supported. The default value is Aliyun.

The dst_node block supports:

- region (Required) Specifies the region where the destination bucket locates.
- ak (Required) Specifies the destination bucket Access Key.
- sk (Required) Specifies the destination bucket Secret Key.
- object_key (Required) Specifies the name of the object to be selected in the destination bucket.
- bucket (Required) Specifies the name of the destination bucket.

The smn_info block supports:

- topic_urn (Required) Specifies the SMN message topic URN bound to a migration task.
- language (Optional) Specifies the management console language used by the current users. Users can select en-us.
- trigger_conditions (Required) Specifies the trigger conditions of sending messages using SMN. The value depending on the state of a migration task. The migration task status can be SUCCESS or FAIL.

» Attributes Reference

The following attributes are exported:

- src_node See Argument Reference above.
- dst node See Argument Reference above.
- enable kms See Argument Reference above.
- thread_num See Argument Reference above.
- description See Argument Reference above.
- smn_info See Argument Reference above.
- name Specifies the name for a task.
- status Specifies the task status as follows: 0: Not started, 1: Waiting to migrate, 2: Migrating, 3: Migration paused, 4: Migration failed, 5: Migration succeeded.

» huaweicloud_obs_bucket

Provides an OBS bucket resource.

» Example Usage

```
» Private Bucket with Tags
```

```
resource "huaweicloud_obs_bucket" "b" {
 bucket = "my-tf-test-bucket"
        = "private"
 acl
 tags = {
   foo = "bar"
   Env = "Test"
}
» Enable versioning
resource "huaweicloud_obs_bucket" "b" {
 bucket = "my-tf-test-bucket"
            = "private"
 versioning = true
» Enable Logging
resource "huaweicloud_obs_bucket" "log_bucket" {
 bucket = "my-tf-log-bucket"
 acl
      = "log-delivery-write"
}
resource "huaweicloud_obs_bucket" "b" {
 bucket = "my-tf-test-bucket"
 acl
      = "private"
 logging {
    target_bucket = huaweicloud_obs_bucket.log_bucket.id
    target_prefix = "log/"
 }
}
» Static Website Hosting
resource "huaweicloud_obs_bucket" "b" {
 bucket = "obs-website-test.hashicorp.com"
```

```
= "public-read"
  acl
  website {
    index_document = "index.html"
    error_document = "error.html"
    routing_rules = <<EOF</pre>
[{
    "Condition": {
        "KeyPrefixEquals": "docs/"
    },
    "Redirect": {
        "ReplaceKeyPrefixWith": "documents/"
    }
}]
EOF
  }
}
» Using CORS
resource "huaweicloud_obs_bucket" "b" {
  bucket = "obs-website-test.hashicorp.com"
         = "public-read"
  acl
  cors_rule {
    allowed_origins = ["https://obs-website-test.hashicorp.com"]
    allowed_methods = ["PUT", "POST"]
    allowed_headers = ["*"]
    expose_headers = ["ETag"]
    max_age_seconds = 3000
  }
}
» Using object lifecycle
resource "huaweicloud_obs_bucket" "bucket" {
         = "my-bucket"
  bucket
             = "private"
  acl
  versioning = true
  lifecycle_rule {
         = "log"
    name
    prefix = "log/"
```

```
enabled = true
    expiration {
      days = 365
    transition {
      days = 60
      storage_class = "WARM"
    transition {
      days = 180
      storage_class = "COLD"
    }
  }
  lifecycle_rule {
          = "tmp"
    name
    prefix = "tmp/"
    enabled = true
    noncurrent_version_expiration {
      days = 180
    }
    noncurrent_version_transition {
      days = 30
      storage_class = "WARM"
    noncurrent_version_transition {
      days = 60
      storage_class = "COLD"
    }
}
```

The following arguments are supported:

- bucket (Required) Specifies the name of the bucket. Changing this parameter will create a new resource. A bucket must be named according to the globally applied DNS naming regulations as follows:
 - The name must be globally unique in OBS.
 - The name must contain 3 to 63 characters. Only lowercase letters, digits, hyphens (-), and periods (.) are allowed.

- The name cannot start or end with a period (.) or hyphen (-), and cannot contain two consecutive periods (.) or contain a period (.) and a hyphen (-) adjacent to each other.
- The name cannot be an IP address.
- If the name contains any periods (.), a security certificate verification message may appear when you access the bucket or its objects by entering a domain name.
- storage_class (Optional) Specifies the storage class of the bucket. OBS provides three storage classes: "STANDARD", "WARM" (Infrequent Access) and "COLD" (Archive). Defaults to STANDARD.
- acl (Optional) Specifies the ACL policy for a bucket. The predefined common policies are as follows: "private", "public-read", "public-readwrite" and "log-delivery-write". Defaults to private.
- tags (Optional) A mapping of tags to assign to the bucket. Each tag is represented by one key-value pair.
- versioning (Optional) Whether enable versioning. Once you versionenable a bucket, it can never return to an unversioned state. You can, however, suspend versioning on that bucket.
- logging (Optional) A settings of bucket logging (documented below).
- website (Optional) A website object (documented below).
- cors_rule (Optional) A rule of Cross-Origin Resource Sharing (documented below).
- lifecycle_rule (Optional) A configuration of object lifecycle management (documented below).
- force_destroy (Optional) A boolean that indicates all objects should be deleted from the bucket so that the bucket can be destroyed without error. Default to false.
- region (Optional) If specified, the region this bucket should reside in. Otherwise, the region used by the provider.

The logging object supports the following:

- target_bucket (Required) The name of the bucket that will receive the log objects. The acl policy of the target bucket should be log-delivery-write.
- target_prefix (Optional) To specify a key prefix for log objects.

The website object supports the following:

• index_document - (Required, unless using redirect_all_requests_to) Specifies the default homepage of the static website, only HTML web pages are supported. OBS only allows files such as index.html in the root directory of a bucket to function as the default homepage. That is to

- say, do not set the default homepage with a multi-level directory structure (for example, /page/index.html).
- error_document (Optional) Specifies the error page returned when an error occurs during static website access. Only HTML, JPG, PNG, BMP, and WEBP files under the root directory are supported.
- redirect_all_requests_to (Optional) A hostname to redirect all website requests for this bucket to. Hostname can optionally be prefixed with a protocol (http:// or https://) to use when redirecting requests. The default is the protocol that is used in the original request.
- routing_rules (Optional) A JSON or XML format containing routing rules describing redirect behavior and when redirects are applied. Each rule contains a Condition and a Redirect as shown in the following table:

Parameter	Key
Condition	KeyPrefixEquals, HttpErrorCodeReturnedEquals
Redirect	Protocol,HostName,ReplaceKeyPrefixWith,ReplaceKeyWith,HttpRedirectCode

The cors rule object supports the following:

- allowed_origins (Required) Requests from this origin can access the bucket. Multiple matching rules are allowed. One rule occupies one line, and allows one wildcard character (*) at most.
- allowed_methods (Required) Specifies the acceptable operation type of buckets and objects. The methods include GET, PUT, POST, DELETE or HEAD.
- allowed_headers (Optional) Specifies the allowed header of cross-origin requests. Only CORS requests matching the allowed header are valid.
- expose_headers (Optional) Specifies the exposed header in CORS responses, providing additional information for clients.
- max_age_seconds (Optional) Specifies the duration that your browser can cache CORS responses, expressed in seconds. The default value is 100.

The lifecycle rule object supports the following:

- name (Required) Unique identifier for lifecycle rules. The Rule Name contains a maximum of 255 characters.
- enabled (Required) Specifies lifecycle rule status.
- prefix (Optional) Object key prefix identifying one or more objects to which the rule applies. If omitted, all objects in the bucket will be managed by the lifecycle rule. The prefix cannot start or end with a slash

- (/), cannot have consecutive slashes (/), and cannot contain the following special characters: :*?"<>|.
- expiration (Optional) Specifies a period when objects that have been last updated are automatically deleted. (documented below).
- transition (Optional) Specifies a period when objects that have been last updated are automatically transitioned to WARM or COLD storage class (documented below).
- noncurrent_version_expiration (Optional) Specifies a period when noncurrent object versions are automatically deleted. (documented below).
- noncurrent_version_transition (Optional) Specifies a period when noncurrent object versions are automatically transitioned to WARM or COLD storage class (documented below).

At least one of expiration, transition, noncurrent_version_expiration, noncurrent_version_transition must be specified.

The expiration object supports the following

• days (Required) Specifies the number of days when objects that have been last updated are automatically deleted. The expiration time must be greater than the transition times.

The transition object supports the following

- days (Required) Specifies the number of days when objects that have been last updated are automatically transitioned to the specified storage class.
- storage_class (Required) The class of storage used to store the object. Only WARM and COLD are supported.

The noncurrent_version_expiration object supports the following

• days (Required) Specifies the number of days when noncurrent object versions are automatically deleted.

The noncurrent_version_transition object supports the following

- days (Required) Specifies the number of days when noncurrent object versions are automatically transitioned to the specified storage class.
- storage_class (Required) The class of storage used to store the object. Only WARM and COLD are supported.

» Attributes Reference

The following attributes are exported:

• id - The name of the bucket.

- bucket_domain_name The bucket domain name. Will be of format bucketname.obs.region.myhuaweicloud.com.
- region The region this bucket resides in.

» Import

OBS bucket can be imported using the bucket, e.g.

\$ terraform import huaweicloud_obs_bucket.bucket bucket-name

» huaweicloud_obs_bucket_object

Provides an OBS bucket object resource.

» Example Usage

» Uploading to a bucket

```
resource "huaweicloud_obs_bucket_object" "object" {
 bucket = "your_bucket_name"
       = "new_key_from_content"
 content = "some object content"
  content_type = "application/xml"
» Uploading a file to a bucket
resource "huaweicloud_obs_bucket" "examplebucket" {
 bucket = "examplebuckettftest"
 acl
        = "private"
}
resource "huaweicloud_obs_bucket_object" "object" {
 bucket = huaweicloud_obs_bucket.examplebucket.bucket
       = "new_key_from_file"
  source = "index.html"
}
```

» Server Side Encryption with OBS Default Master Key

```
resource "huaweicloud_obs_bucket_object" "examplebucket_object" {
```

```
bucket = "your_bucket_name"
key = "someobject"
source = "index.html"
encryption = true
}
```

The following arguments are supported:

- bucket (Required) The name of the bucket to put the file in.
- key (Required) The name of the object once it is in the bucket.
- source (Optional) The path to the source file being uploaded to the bucket.
- content (Optional) The literal content being uploaded to the bucket.
- acl (Optional) The ACL policy to apply. Defaults to private.
- storage_class (Optioanl) Specifies the storage class of the object. Defaults to STANDARD.
- content_type (Optional) A standard MIME type describing the format of the object data, e.g. application/octet-stream. All Valid MIME Types are valid for this input.
- encryption (Optional) Whether enable server-side encryption of the object in SSE-KMS mode.
- sse_kms_key_id (Optional) The ID of the kms key. If omitted, the default master key will be used.
- etag (Optional) Specifies the unique identifier of the object content. It can be used to trigger updates. The only meaningful value is md5(file("path_to_file")).

Either source or content must be provided to specify the bucket content. These two arguments are mutually-exclusive.

» Attributes Reference

The following attributes are exported

- id the key of the resource supplied above.
- etag the ETag generated for the object (an MD5 sum of the object content). When the object is encrypted on the server side, the ETag value is not the MD5 value of the object, but the unique identifier calculated through the server-side encryption.

- size the size of the object in bytes.
- version_id A unique version ID value for the object, if bucket versioning is enabled.

» huaweicloud_rds_flavors_v1

Use this data source to get the ID of an available HuaweiCloud rds flavor.

» Example Usage

» Argument Reference

- region (Required) The region in which to obtain the V1 rds client.
- datastore_name (Required) The datastore name of the rds.
- datastore_version (Required) The datastore version of the rds.
- speccode (Optional) The spec code of a rds flavor.

» Available value for attributes

datastore_name	datastore_version	speccode
PostgreSQL	9.5.5	ha = True:
	9.6.3	rds.pg.m1.2xlarge.ha rds.pg.c2.large.ha rds.pg.s1.2xlarge.ha rds.pg.c2.
		ha = False: rds.pg.s1.xlarge rds.pg.m1.2xlarge rds.pg.c2.xlarge rds.pg.s1.medium r
MySQL	5.6.33	ha = True:
	5.6.30	rds.mysql.s1.medium.ha rds.mysql.s1.large.ha rds.mysql.s1.xlarge.ha r
	5.6.34	ha = False:
	5.6.35	rds.mysql.s1.medium rds.mysql.s1.large rds.mysql.s1.xlarge rds.mysql.s
	5.6.36	
	5.7.17	

datastore_name datastore_version speccode	
SQLServer 2014 SP2 SE ha = True: rds.mssql.m1.2xlarge.ha rds.mssql.m1.xlarge.ha rds.mssql. ha = False: rds.mssql.m1.2xlarge rds.mssql.m1.xlarge rds.mssql.m1.4x	<u> </u>

id is set to the ID of the found rds flavor. In addition, the following attributes are exported:

- region See Argument Reference above.
- datastore_name See Argument Reference above.
- datastore_version See Argument Reference above.
- speccode See Argument Reference above.
- name The name of the rds flavor.
- ram The name of the rds flavor.

» huaweicloud_rds_flavors_v3

Use this data source to get available HuaweiCloud rds flavors.

» Example Usage

```
data "huaweicloud_rds_flavors_v3" "flavor" {
    db_type = "PostgreSQL"
    db_version = "9.5"
    instance_mode = "ha"
}
```

» Argument Reference

- db_type (Required) Specifies the DB engine. Value: MySQL, Post-greSQL, SQLServer.
- db_version (Required) Specifies the database version. Available value:

type	version
MySQL	5.6
	5.7
	8.0
PostgreSQL	9.5
	9.6
	10
	11
SQLServer	2008 _R2_EE
	2008 R2_WEB
	2012_SE
	2014_SE
	2016_SE
	2017_SE
	2012_EE
	2014_EE
	2016_EE
	2017_EE
	2012_WEB
	2014 _WEB
	2016_WEB
	2017 _WEB

• instance_mode - (Required) The mode of instance. Value: ha(indicates primary/standby instance), single(indicates single instance)

» Attributes Reference

In addition, the following attributes are exported:

• flavors - Indicates the flavors information. Structure is documented below.

The flavors block contains:

- name The name of the rds flavor.
- vcpus Indicates the CPU size.
- memory Indicates the memory size in GB.
- mode See 'instance_mode' above.

» huaweicloud_rds_instance_v1

Manages rds instance resource within HuaweiCloud

» Example Usage: Creating a PostgreSQL RDS instance

```
data "huaweicloud_rds_flavors_v1" "flavor" {
                   = "eu-de"
 region
 datastore_name = "PostgreSQL"
 datastore_version = "9.5.5"
 speccode
                   = "rds.pg.s1.large"
}
resource "huaweicloud_networking_secgroup_v2" "secgrp_rds" {
            = "secgrp-rds-instance"
  description = "Rds Security Group"
}
resource "huaweicloud_rds_instance_v1" "instance" {
 name = "rds-instance"
  datastore {
   type = "PostgreSQL"
   version = "9.5.5"
 flavorref = "${data.huaweicloud_rds_flavors_v1.flavor.id}"
 volume {
   type = "COMMON"
   size = 200
 }
            = "eu-de"
 region
  availabilityzone = "eu-de-01"
                  = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
 nics {
    subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
  securitygroup {
   id = "${huaweicloud_networking_secgroup_v2.secgrp_rds.id}"
 dbport = "8635"
 backupstrategy {
   starttime = "04:00:00"
   keepdays = 4
  dbrtpd = "Huangwei!120521"
 ha {
    enable
                   = true
   replicationmode = "async"
  depends_on = ["huaweicloud_networking_secgroup_v2.secgrp_rds"]
```

}

» Example Usage: Creating a SQLServer RDS instance

```
data "huaweicloud_rds_flavors_v1" "flavor" {
 region
                  = "eu-de"
 datastore_name
                 = "SQLServer"
 datastore_version = "2014 SP2 SE"
 speccode
             = "rds.mssql.s1.2xlarge"
}
resource "huaweicloud_networking_secgroup_v2" "secgrp_rds" {
         = "secgrp-rds-instance"
 description = "Rds Security Group"
}
resource "huaweicloud_rds_instance_v1" "instance" {
 name = "rds-instance"
 datastore {
   type = "SQLServer"
   version = "2014 SP2 SE"
 flavorref = "${data.huaweicloud_rds_flavors_v1.flavor.id}"
 volume {
   type = "COMMON"
   size = 200
 }
                  = "eu-de"
 region
 availabilityzone = "eu-de-01"
                 = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
 vpc
 nics {
   subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
 securitygroup {
   id = "${huaweicloud_networking_secgroup_v2.secgrp_rds.id}"
 dbport = "8635"
 backupstrategy {
   starttime = "04:00:00"
   keepdays = 4
            = "Huangwei!120521"
 dbrtpd
 depends_on = ["huaweicloud_networking_secgroup_v2.secgrp_rds"]
}
```

» Example Usage: Creating a MySQL RDS instance

```
data "huaweicloud_rds_flavors_v1" "flavor" {
                   = "eu-de"
 region
 datastore_name = "MySQL"
 datastore_version = "5.6.33"
 speccode
                  = "rds.mysql.s1.medium"
}
resource "huaweicloud_networking_secgroup_v2" "secgrp_rds" {
            = "secgrp-rds-instance"
 description = "Rds Security Group"
}
resource "huaweicloud_rds_instance_v1" "instance" {
 name = "rds-instance"
 datastore {
   type = "MySQL"
   version = "5.6.33"
 flavorref = "${data.huaweicloud_rds_flavors_v1.flavor.id}"
 volume {
   type = "COMMON"
   size = 200
 }
            = "eu-de"
 region
 availabilityzone = "eu-de-01"
                  = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
 nics {
   subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
 securitygroup {
   id = "${huaweicloud_networking_secgroup_v2.secgrp_rds.id}"
 dbport = "8635"
 backupstrategy {
   starttime = "04:00:00"
   keepdays = 4
 dbrtpd = "Huangwei!120521"
 ha {
   enable
                   = true
   replicationmode = "async"
 depends_on = ["huaweicloud_networking_secgroup_v2.secgrp_rds"]
```

The following arguments are supported:

- name (Required) Specifies the DB instance name. The DB instance name of the same type is unique in the same tenant.
- datastore (Required) Specifies database information. The structure is described below.
- flavorref (Required) Specifies the specification ID (flavors.id in the response message in Obtaining All DB Instance Specifications).
- volume (Required) Specifies the volume information. The structure is described below.
- region (Required) Specifies the region ID.
- availabilityzone (Required) Specifies the ID of the AZ.
- vpc (Required) Specifies the VPC ID. For details about how to obtain this parameter value, see section "Virtual Private Cloud" in the Virtual Private Cloud API Reference.
- nics (Required) Specifies the nics information. For details about how to obtain this parameter value, see section "Subnet" in the Virtual Private Cloud API Reference. The structure is described below.
- securitygroup (Required) Specifies the security group which the RDS DB instance belongs to. The structure is described below.
- dbport (Optional) Specifies the database port number.
- backupstrategy (Optional) Specifies the advanced backup policy. The structure is described below.
- dbrtpd (Required) Specifies the password for user root of the database.
- ha (Optional) Specifies the parameters configured on HA and is used when creating HA DB instances. The structure is described below. NO-TICE: RDS for Microsoft SQL Server does not support creating HA DB instances and this parameter is not involved.

The datastore block supports:

- type (Required) Specifies the DB engine. Currently, MySQL, PostgreSQL, and Microsoft SQL Server are supported. The value is MySQL, PostgreSQL, or SQLServer.
- version (Required) Specifies the DB instance version.

• Available value for attributes

type	version
PostgreSQL	9.5.5
	9.6.3
MySQL	5.6.33
	5.6.30
	5.6.34
	5.6.35
	5.6.36
	5.7.17
SQLServer	$2014~\mathrm{SP2}~\mathrm{SE}$

The volume block supports:

- type (Required) Specifies the volume type. Valid value: It must be COMMON (SATA) or ULTRAHIGH (SSD) and is case-sensitive.
- size (Required) Specifies the volume size. Its value must be a multiple of 10 and the value range is 100 GB to 2000 GB.

The nics block supports:

• subnetId - (Required) Specifies the subnet ID obtained from the VPC.

The security group block supports:

• id - (Required) Specifies the ID obtained from the security group.

The backupstrategy block supports:

- starttime (Optional) Indicates the backup start time that has been set. The backup task will be triggered within one hour after the backup start time. Valid value: The value cannot be empty. It must use the hh:mm:ss format and must be valid. The current time is the UTC time.
- keepdays (Optional) Specifies the number of days to retain the generated backup files. Its value range is 0 to 35. If this parameter is not specified or set to 0, the automated backup policy is disabled.

The ha block supports:

- enable (Optional) Specifies the configured parameters on the HA. Valid value: The value is true or false. The value true indicates creating HA DB instances. The value false indicates creating a single DB instance.
- replicationmode (Optional) Specifies the replication mode for the standby DB instance. The value cannot be empty. For MySQL, the value is async or semisync. For PostgreSQL, the value is async or sync.

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- flavorref See Argument Reference above.
- volume See Argument Reference above.
- availabilityzone See Argument Reference above.
- vpc See Argument Reference above.
- nics See Argument Reference above.
- securitygroup See Argument Reference above.
- dbport See Argument Reference above.
- backupstrategy See Argument Reference above.
- dbrtpd See Argument Reference above.
- ha See Argument Reference above.
- status Indicates the DB instance status.
- hostname Indicates the instance connection address. It is a blank string.
- type Indicates the DB instance type, which can be master or readreplica.
- created Indicates the creation time in the following format: yyyy-mmdd Thh:mm:ssZ.
- updated Indicates the update time in the following format: yyyy-mm-dd Thh:mm:ssZ.

» Attributes Reference

The following attributes can be updated:

- volume.size See Argument Reference above.
- flavorref See Argument Reference above.
- backupstrategy See Argument Reference above.

> huaweicloud_rds_instance_v3

instance management

» Example Usage

» create a single db instance

```
resource "huaweicloud_networking_secgroup_v2" "secgroup" {
  name = "terraform_test_security_group"
```

```
description = "terraform security group acceptance test"
resource "huaweicloud_rds_instance_v3" "instance" {
  availability_zone = ["{{ availability_zone }}"]
   password = "Huangwei!120521"
    type = "PostgreSQL"
   version = "9.5"
   port = "8635"
 name = "terraform_test_rds_instance"
  security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
  subnet id = "{{ subnet id }}"
 vpc_id = "{{ vpc_id }}"
  volume {
   type = "ULTRAHIGH"
   size = 100
 }
 flavor = "rds.pg.c2.medium"
 backup_strategy {
    start_time = "08:00-09:00"
    keep_days = 1
 }
}
» create a primary/standby db instance
resource "huaweicloud_networking_secgroup_v2" "secgroup" {
 name = "terraform_test_security_group"
 description = "terraform security group acceptance test"
}
resource "huaweicloud_rds_instance_v3" "instance" {
  availability_zone = ["{{ availability_zone_1 }}", "{{ availability_zone_2 }}"]
 db {
    password = "Huangwei!120521"
    type = "PostgreSQL"
    version = "9.5"
   port = "8635"
 name = "terraform_test_rds_instance"
  security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
  subnet_id = "{{ subnet_id }}"
  vpc_id = "{{ vpc_id }}"
```

```
volume {
    type = "ULTRAHIGH"
    size = 100
 flavor = "rds.pg.s1.medium.ha"
 ha_replication_mode = "async"
 backup_strategy {
    start_time = "08:00-09:00"
   keep_days = 1
 }
}
» create a single db instance with encrypted volume
resource "huaweicloud_kms_key_v1" "key" {
                 = "key_1"
 key_alias
 key_description = "first test key"
 is_enabled
               = true
}
resource "huaweicloud_networking_secgroup_v2" "secgroup" {
 name = "terraform_test_security_group"
  description = "terraform security group acceptance test"
}
resource "huaweicloud_rds_instance_v3" "instance" {
  availability_zone = ["{{ availability_zone }}"]
  db {
   password = "Huangwei!120521"
    type = "PostgreSQL"
    version = "9.5"
   port = "8635"
 name = "terraform_test_rds_instance"
  security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
  subnet_id = "{{ subnet_id }}"
  vpc_id = "{{ vpc_id }}"
  volume {
    disk_encryption_id = "${huaweicloud_kms_key_v1.key.id}"
    type = "ULTRAHIGH"
    size = 100
  flavor = "rds.pg.c2.medium"
  backup_strategy {
    start_time = "08:00-09:00"
```

```
keep_days = 1
}
```

The following arguments are supported:

- availability_zone (Required) Specifies the AZ name. Changing this parameter will create a new resource.
- db (Required) Specifies the database information. Structure is documented below. Changing this parameter will create a new resource.
- flavor (Required) Specifies the specification code.
- name (Required) Specifies the DB instance name. The DB instance name of the same type must be unique for the same tenant. The value must be 4 to 64 characters in length and start with a letter. It is case-sensitive and can contain only letters, digits, hyphens (-), and underscores (_). Changing this parameter will create a new resource.
- security_group_id (Required) Specifies the security group which the RDS DB instance belongs to. Changing this parameter will create a new resource.
- subnet_id (Required) Specifies the network id of a subnet. Changing this parameter will create a new resource.
- volume (Required) Specifies the volume information. Structure is documented below.
- vpc_id (Required) Specifies the VPC ID. Changing this parameter will create a new resource.
- backup_strategy (Optional) Specifies the advanced backup policy. Structure is documented below.
- ha_replication_mode (Optional) Specifies the replication mode for the standby DB instance. For MySQL, the value is async or semisync. For PostgreSQL, the value is async or sync. For Microsoft SQL Server, the value is sync. NOTE: async indicates the asynchronous replication mode. semisync indicates the semi-synchronous replication mode. sync indicates the synchronous replication mode. Changing this parameter will create a new resource.
- param_group_id (Optional) Specifies the parameter group ID. Changing this parameter will create a new resource.

The db block supports:

- password (Required) Specifies the database password. The value cannot be empty and should contain 8 to 32 characters, including uppercase and lowercase letters, digits, and the following special characters: ~!@#%*-_=+? You are advised to enter a strong password to improve security, preventing security risks such as brute force cracking. Changing this parameter will create a new resource.
- port (Optional) Specifies the database port information. The MySQL database port ranges from 1024 to 65535 (excluding 12017 and 33071, which are occupied by the RDS system and cannot be used). The PostgreSQL database port ranges from 2100 to 9500. The Microsoft SQL Server database port can be 1433 or ranges from 2100 to 9500, excluding 5355 and 5985. If this parameter is not set, the default value is as follows: For MySQL, the default value is 3306. For PostgreSQL, the default value is 5432. For Microsoft SQL Server, the default value is 1433. Changing this parameter will create a new resource.
- type (Required) Specifies the DB engine. Value: MySQL, PostgreSQL, SQLServer. Changing this parameter will create a new resource.
- user_name Indicates the default user name of database.
- version (Required) Specifies the database version. Changing this parameter will create a new resource. Available value for attributes:

type	version
MySQL	5.6
	5.7
	8.0
	8.0 is available only for users with the required permission.
	You can contact customer service to apply for the permission.
PostgreSQL	9.5
	9.6
	10
	11

type	version
SQLServer	2008_R2_EE
	2008_R2_WEB
	2012_SE
	2014_SE
	2016_SE
	2017_SE
	$2012_{ m EE}$
	$2014_{ m EE}$
	$2016_{ m EE}$
	$2017_{ m EE}$
	2012_WEB
	2014_WEB
	2016_WEB
	2017_WEB

The volume block supports:

- disk_encryption_id (Optional) Specifies the key ID for disk encryption. Changing this parameter will create a new resource.
- size (Required) Specifies the volume size. Its value range is from 40 GB to 4000 GB. The value must be a multiple of 10. Changing this resize the
- type (Required) Specifies the volume type. Its value can be any of the following and is case-sensitive: ULTRAHIGH: indicates the SSD type. ULTRAHIGHPRO: indicates the ultra-high I/O (advanced), which supports ultra-high performance (advanced) DB instances. Changing this parameter will create a new resource.

The backup_strategy block supports:

- keep_days (Optional) Specifies the retention days for specific backup files. The value range is from 0 to 732. If this parameter is not specified or set to 0, the automated backup policy is disabled. NOTICE: Primary/standby DB instances of Microsoft SQL Server do not support disabling the automated backup policy.
- start_time (Required) Specifies the backup time window. Automated backups will be triggered during the backup time window. It must be a valid value in the "hh:mm-HH:MM" format. The current time is in the UTC format. The HH value must be 1 greater than the hh value. The values of mm and MM must be the same and must be set to any of the following: 00, 15, 30, or 45. Example value: 08:15-09:15 23:00-00:00.

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

- created Indicates the creation time.
- nodes Indicates the instance nodes information. Structure is documented below.
- private_ips Indicates the private IP address list. It is a blank string until an ECS is created.
- public_ips Indicates the public IP address list.

The nodes block contains:

- availability_zone Indicates the AZ.
- id Indicates the node ID.
- name Indicates the node name.
- role Indicates the node type. The value can be master or slave, indicating the primary node or standby node respectively.
- status Indicates the node status.

» Timeouts

This resource provides the following timeouts configuration options: - create - Default is 30 minute.

» Import

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

But due to some attrubutes missing from the API response, it's required to ignore changes as below.

\$ terraform import huaweicloud_rds_instance_v3.instance_1 7117d38e-4c8f-4624-a505-bd96b97d02

```
resource "huaweicloud_rds_instance_v3" "instance_1" {
    ...

lifecycle {
    ignore_changes = [
        "db",
    ]
}
```

}

» huaweicloud_rds_parametergroup_v3

Manages a V3 RDS parametergroup resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_rds_parametergroup_v3" "pg_1" {
   name = "pg_1"
   description = "description_1"
   values = {
      max_connections = "10"
      autocommit = "OFF"
   }
   datastore {
      type = "mysq1"
      version = "5.6"
   }
}
```

» Argument Reference

The following arguments are supported:

- name (Required) The parameter group name. It contains a maximum of 64 characters.
- description (Optional) The parameter group description. It contains a maximum of 256 characters and cannot contain the following special characters:>!<"&'= the value is left blank by default.
- values (Optional) Parameter group values key/value pairs defined by users based on the default parameter groups.
- datastore (Required) Database object. The database object structure is documented below. Changing this creates a new parameter group.

The datastore block supports:

- type (Required) The DB engine. Currently, MySQL, PostgreSQL, and Microsoft SQL Server are supported. The value is case-insensitive and can be mysql, postgresql, or sqlserver.
- version (Required) Specifies the database version.

- MySQL databases support MySQL 5.6 and 5.7. Example value: 5.7.
- PostgreSQL databases support PostgreSQL 9.5 and 9.6. Example value: 9.5.
- Microsoft SQL Server databases support 2014 SE, 2016 SE, and 2016 EE. Example value: 2014 SE.

The following attributes are exported:

- id ID of the parameter group.
- configuration_parameters Indicates the parameter configuration defined by users based on the default parameters groups.
 - name Indicates the parameter name.
 - value Indicates the parameter value.
 - restart_required Indicates whether a restart is required.
 - readonly Indicates whether the parameter is read-only.
 - value_range Indicates the parameter value range.
 - type Indicates the parameter type.
 - description Indicates the parameter description.

» Import

Parameter groups can be imported using the id, e.g.

» Data Source: huaweicloud_rts_software_config_v1

The RTS Software Config data source provides details about a specific RTS Software Config.

» Example Usage

```
variable "config_name" {}
variable "server_id" {}
data "huaweicloud_rts_software_config_v1" "myconfig" {
  id = "${var.config_name}"
}
```

```
resource "huaweicloud_rts_software_deployment_v1" "mydeployment" {
   config_id = "${data.huaweicloud_rts_software_config_v1.myconfig.id}"
   server_id = "${var.server_id}"
}
```

The following arguments are supported:

- id (Optional) The id of the software configuration.
- name (Optional) The name of the software configuration.

» Attributes Reference

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

- group The namespace that groups this software configuration by when it is delivered to a server.
- inputs A list of software configuration inputs.
- outputs A list of software configuration outputs.
- config The software configuration code.
- options The software configuration options.

» Data Source: huaweicloud rts stack resource v1

The HuaweiCloud RTS Stack Resource data source allows access to stack resource metadata.

» Example Usage

```
variable "stack_name" { }
variable "resource_name" { }

data "huaweicloud_rts_stack_resource_v1" "stackresource" {
   stack_name = "${var.stack_name}"
   resource_name = "${var.resource_name}"
}
```

The following arguments are supported:

- stack_name (Required) The unique stack name.
- resource_name (Optional) The name of a resource in the stack.
- physical_resource_id (Optional) The physical resource ID.
- resource_type (Optional) The resource type.

» Attributes Reference

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

- logical_resource_id The logical resource ID.
- resource_status The status of the resource.
- resource_status_reason The resource operation reason.
- required_by Specifies the resource dependency.

» huaweicloud rts stack v1

The Huaweicloud Resource Template Service Stack data source allows access to stack outputs and other useful data including the template body.

» 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 "stack_name" { }
data "huaweicloud_rts_stack_v1" "stacks" {
  name = "${var.stack_name}"
}
```

» Argument Reference

The following arguments are supported:

• name - (Required) The name of the stack.

The following attributes are exported:

- capabilities List of stack capabilities for stack.
- description Describes the stack.
- disable_rollback Specifies whether to perform a rollback if the update fails.
- outputs A list of stack outputs.
- parameters Specifies the stack parameters.
- template_body Structure containing the template body.
- timeout_mins Specifies the timeout duration.
- status Specifies the stack status.
- name Specifies the stack name.
- status_reason Specifies the description of the stack operation.
- notification_topics List of notification topics for stack.

» huaweicloud rts stack v1

Provides an Huawei Cloud Stack resource.

» Example Usage

```
variable "name" { }
variable "network_id" { }
variable "instance_type" { }
variable "image_id" { }

resource "huaweicloud_rts_stack_v1" "stack" {
  name = "${var.name}"
    disable_rollback = true
    timeout_mins=60
    parameters {
        "network_id" = "${var.network_id}"
        "instance_type" = "${var.instance_type}"
        "image_id" = "${var.image_id}"
    }
    template_body = <<STACK
    {
}</pre>
```

```
"heat_template_version": "2016-04-08",
      "description": "Simple template to deploy",
      "parameters": {
          "image_id": {
              "type": "string",
              "description": "Image to be used for compute instance",
              "label": "Image ID"
          },
          "network_id": {
              "type": "string",
              "description": "The Network to be used",
              "label": "Network UUID"
          },
          "instance_type": {
              "type": "string",
              "description": "Type of instance (Flavor) to be used",
              "label": "Instance Type"
          }
      },
      "resources": {
          "my_instance": {
              "type": "OS::Nova::Server",
              "properties": {
                  "image": {
                      "get_param": "image_id"
                  },
                  "flavor": {
                      "get_param": "instance_type"
                  },
                  "networks": [{
                      "network": {
                          "get_param": "network_id"
                  }]
              }
          }
      },
      "outputs": {
        "InstanceIP":{
          "description": "Instance IP",
          "value": {    "get_attr": ["my_instance", "first_address"] }
        }
      }
 }
 STACK
}
```

The following arguments are supported:

- stack_name (Required) Specifies the stack name. The value must meet the regular expression rule ([a-zA-Z][a-zA-Z0-9_.-]{0,254}\$). Changing this will create a new stack.
- stack_id (Required) Specifies the stack UUID.
- template (Optional) Specifies the template. The template content must use the json syntax.
- environment (Optional) Specifies the environment information about the stack.
- files (Optional) Specifies files used in the environment.
- parameters (Optional) Specifies parameter information of the stack.
- timeout_mins (Optional) Specifies the timeout duration.
- template_url (Optional) Specifies the template URL.
- disable_rollback (Optional) Specifies whether to perform a rollback if the creation fails.

» Attributes Reference

The following attributes are exported:

- outputs A map of outputs from the stack.
- capabilities List of stack capabilities for stack.
- notification_topics List of notification topics for stack.
- status Specifies the stack status.

» Import

RTS Stacks can be imported using the name, e.g.

\$ terraform import huaweicloud_rts_stack_v1.stack rts-stack

» Timeouts

huaweicloud_rts_stack_v1 provides the following Timeouts configuration options:

```
• create - (Default 30 minutes) Used for Creating Stacks
```

- update (Default 30 minutes) Used for Stack modifications
- delete (Default 30 minutes) Used for destroying stacks.

» huaweicloud_rts_software_config_v1

Provides an RTS software config resource.

» Example Usage

```
variable "config_name" {}

resource "huaweicloud_rts_software_config_v1" "myconfig" {
  name = "${var.config_name}"
}
```

» Argument Reference

The following arguments are supported:

- name (Required) The name of the software configuration.
- group (Optional) The namespace that groups this software configuration by when it is delivered to a server.
- inputs (Optional) A list of software configuration inputs.
- outputs (Optional) A list of software configuration outputs.
- config (Optional) The software configuration code.
- options (Optional) The software configuration options.

» Attributes Reference

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

• id - The id of the software config.

» Import

Software Config can be imported using the config id, e.g. \$ terraform import huaweicloud_rts_software_config_v1 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

» huaweicloud_s3_bucket_object

The S3 object data source allows access to the metadata and optionally (see below) content of an object stored inside S3 bucket.

Note: The content of an object (body field) is available only for objects which have a human-readable Content-Type (text/* and application/json). This is to prevent printing unsafe characters and potentially downloading large amount of data which would be thrown away in favour of metadata.

» Example Usage

```
data "huaweicloud_s3_bucket_object" "b" {
  bucket = "my-test-bucket"
  key = "hello-world.zip"
}
```

» Argument Reference

The following arguments are supported:

- bucket (Required) The name of the bucket to read the object from
- key (Required) The full path to the object inside the bucket
- version_id (Optional) Specific version ID of the object returned (defaults to latest version)

» Attributes Reference

The following attributes are exported:

- body Object data (see **limitations above** to understand cases in which this field is actually available)
- 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_language The language the content is in.
- content_length Size of the body in bytes.
- content_type A standard MIME type describing the format of the obiect data.
- etag ETag generated for the object (an MD5 sum of the object content in case it's not encrypted)
- expiration If the object expiration is configured (see object lifecycle management), the field includes this header. It includes the expiry-date and rule-id key value pairs providing object expiration information. The value of the rule-id is URL encoded.
- expires The date and time at which the object is no longer cacheable.
- last_modified Last modified date of the object in RFC1123 format (e.g. Mon, 02 Jan 2006 15:04:05 MST)
- metadata A map of metadata stored with the object in S3
- server_side_encryption If the object is stored using server-side encryption (KMS or Amazon S3-managed encryption key), this field includes the chosen encryption and algorithm used.
- sse_kms_key_id If present, specifies the ID of the Key Management Service (KMS) master encryption key that was used for the object.
- storage_class Storage class information of the object. Available for all objects except for Standard storage class objects.
- version_id The latest version ID of the object returned.
- website_redirect_location If the bucket is configured as a website, redirects requests for this object to another object in the same bucket or to an external URL. Amazon S3 stores the value of this header in the object metadata.
- tags A mapping of tags assigned to the object.

» huaweicloud_s3_bucket

Provides a S3 bucket resource.

» Example Usage

» Private Bucket with Tags

```
resource "huaweicloud_s3_bucket" "b" {
  bucket = "my-tf-test-bucket"
  acl = "private"

tags = {
  foo = "bar"
  Env = "Test"
```

```
}
» Static Website Hosting
resource "huaweicloud_s3_bucket" "b" {
  bucket = "s3-website-test.hashicorp.com"
       = "public-read"
  policy = "${file("policy.json")}"
  website {
    index_document = "index.html"
    error_document = "error.html"
    routing_rules = <<EOF</pre>
[{
    "Condition": {
        "KeyPrefixEquals": "docs/"
    },
    "Redirect": {
        "ReplaceKeyPrefixWith": "documents/"
}]
EOF
}
» Using CORS
resource "huaweicloud_s3_bucket" "b" {
  bucket = "s3-website-test.hashicorp.com"
        = "public-read"
  cors_rule {
    allowed_headers = ["*"]
    allowed_methods = ["PUT", "POST"]
    allowed_origins = ["https://s3-website-test.hashicorp.com"]
    expose_headers = ["ETag"]
    max_age_seconds = 3000
}
```

```
» Using versioning
resource "huaweicloud_s3_bucket" "b" {
  bucket = "my-tf-test-bucket"
  acl = "private"
  versioning {
    enabled = true
}
» Enable Logging
resource "huaweicloud_s3_bucket" "log_bucket" {
  bucket = "my-tf-log-bucket"
        = "log-delivery-write"
  acl
}
resource "huaweicloud_s3_bucket" "b" {
  bucket = "my-tf-test-bucket"
  acl = "private"
  logging {
   target_bucket = "${huaweicloud_s3_bucket.log_bucket.id}"
   target_prefix = "log/"
  }
}
» Using object lifecycle
resource "huaweicloud_s3_bucket" "bucket" {
  bucket = "my-bucket"
        = "private"
  acl
  lifecycle_rule {
           = "log"
    enabled = true
    prefix = "log/"
    expiration {
      days = 90
    }
```

```
lifecycle_rule {
            = "tmp"
   prefix = "tmp/"
    enabled = true
    expiration {
      date = "2016-01-12"
 }
}
resource "huaweicloud_s3_bucket" "versioning_bucket" {
 bucket = "my-versioning-bucket"
 acl
         = "private"
 versioning {
    enabled = true
 lifecycle_rule {
   prefix = "config/"
    enabled = true
}
```

The following arguments are supported:

- bucket (Optional, Forces new resource) The name of the bucket. If omitted, Terraform will assign a random, unique name.
- bucket_prefix (Optional, Forces new resource) Creates a unique bucket name beginning with the specified prefix. Conflicts with bucket.
- acl (Optional) The canned ACL to apply. Defaults to "private".
- tags (Optional) A mapping of tags to assign to the bucket.
- force_destroy (Optional, Default:false) A boolean that indicates all objects should be deleted from the bucket so that the bucket can be destroyed without error. These objects are *not* recoverable.
- policy (Optional) A valid bucket policy JSON document. Note that if the policy document is not specific enough (but still valid), Terraform may view the policy as constantly changing in a terraform plan. In this case, please make sure you use the verbose/specific version of the policy.
- website (Optional) A website object (documented below).
- cors rule (Optional) A rule of Cross-Origin Resource Sharing (docu-

- mented below).
- versioning (Optional) A state of versioning (documented below)
- logging (Optional) A settings of bucket logging (documented below).
- lifecycle_rule (Optional) A configuration of object lifecycle management (documented below).
- region (Optional) If specified, the region this bucket should reside in. Otherwise, the region used by the callee.

The website object supports the following:

- index_document (Required, unless using redirect_all_requests_to) Amazon S3 returns this index document when requests are made to the root domain or any of the subfolders.
- error_document (Optional) An absolute path to the document to return in case of a 4XX error.
- redirect_all_requests_to (Optional) A hostname to redirect all website requests for this bucket to. Hostname can optionally be prefixed with a protocol (http:// or https://) to use when redirecting requests. The default is the protocol that is used in the original request.
- routing_rules (Optional) A json array containing routing rules describing redirect behavior and when redirects are applied.

The CORS object supports the following:

- allowed_headers (Optional) 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 versioning object supports the following:

- enabled (Optional) Enable versioning. Once you version-enable a bucket, it can never return to an unversioned state. You can, however, suspend versioning on that bucket.
- mfa_delete (Optional) Enable MFA delete for either Change the versioning state of your bucket or Permanently delete an object version. Default is false.

The logging object supports the following:

- target_bucket (Required) The name of the bucket that will receive the log objects.
- target_prefix (Optional) To specify a key prefix for log objects.

The lifecycle_rule object supports the following:

• id - (Optional) Unique identifier for the rule.

- prefix (Optional) Object key prefix identifying one or more objects to which the rule applies.
- enabled (Required) Specifies lifecycle rule status.
- abort_incomplete_multipart_upload_days (Optional) Specifies the number of days after initiating a multipart upload when the multipart upload must be completed.
- expiration (Optional) Specifies a period in the object's expire (documented below).
- noncurrent_version_expiration (Optional) Specifies when noncurrent object versions expire (documented below).

At least one of expiration, noncurrent_version_expiration must be specified

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.
- expired_object_delete_marker (Optional) On a versioned bucket (versioning-enabled or versioning-suspended bucket), you can add this element in the lifecycle configuration to direct Amazon S3 to delete expired object delete markers.

The noncurrent_version_expiration object supports the following

 days (Required) Specifies the number of days an object is noncurrent object versions expire.

The rules object supports the following:

- id (Optional) Unique identifier for the rule.
- destination (Required) Specifies the destination for the rule (documented below).
- prefix (Required) Object keyname prefix identifying one or more objects to which the rule applies. Set as an empty string to replicate the whole bucket.
- status (Required) The status of the rule. Either Enabled or Disabled. The rule is ignored if status is not Enabled.

The destination object supports the following:

- bucket (Required) The ARN of the S3 bucket where you want Amazon S3 to store replicas of the object identified by the rule.
- storage_class (Optional) The class of storage used to store the object.

The following attributes are exported:

- id The name of the bucket.
- arn-The ARN of the bucket. Will be of format arn:aws:s3:::bucketname.
- bucket_domain_name The bucket domain name. Will be of format bucketname.s3.amazonaws.com.
- hosted_zone_id The Route 53 Hosted Zone ID for this bucket's region.
- region The region this bucket resides in.
- website_endpoint The website endpoint, if the bucket is configured with a website. If not, this will be an empty string.
- website_domain The domain of the website endpoint, if the bucket is configured with a website. If not, this will be an empty string. This is used to create Route 53 alias records.

» Import

S3 bucket can be imported using the bucket, e.g.

\$ terraform import huaweicloud_s3_bucket.bucket bucket-name

» huaweicloud_s3_bucket_object

Provides a S3 bucket object resource.

» Example Usage

» Uploading a file to a bucket

```
resource "huaweicloud_s3_bucket_object" "object" {
  bucket = "your_bucket_name"
  key = "new_object_key"
  source = "path/to/file"
  etag = "${md5(file("path/to/file"))}"
}

resource "huaweicloud_s3_bucket" "examplebucket" {
  bucket = "examplebuckettftest"
  acl = "private"
}

resource "huaweicloud_s3_bucket_object" "examplebucket_object" {
```

```
key
             = "someobject"
             = "${huaweicloud_s3_bucket.examplebucket.bucket}"
 bucket
  source
}
» Server Side Encryption with S3 Default Master Key
resource "huaweicloud_s3_bucket" "examplebucket" {
 bucket = "examplebuckettftest"
         = "private"
}
resource "huaweicloud_s3_bucket_object" "examplebucket_object" {
 key
                         = "someobject"
 bucket
                         = "${huaweicloud_s3_bucket.examplebucket.bucket}"
                         = "index.html"
 source
  server_side_encryption = "aws:kms"
```

Note: If you specify content_encoding you are responsible for encoding the body appropriately (i.e. source and content both expect already encoded/compressed bytes)

The following arguments are supported:

- bucket (Required) The name of the bucket to put the file in.
- key (Required) The name of the object once it is in the bucket.
- source (Required) The path to the source file being uploaded to the
- content (Required unless source given) The literal content being uploaded to the bucket.
- acl (Optional) The canned ACL to apply. Defaults to "private".
- cache_control (Optional) Specifies caching behavior along the request/reply chain Read w3c cache control for further details.
- content_disposition (Optional) Specifies presentational information for the object. Read wc3 content_disposition for further information.
- 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. Read w3c content encoding for further information.
- content_language (Optional) The language the content is in e.g. en-US or en-GB.

- content_type (Optional) A standard MIME type describing the format of the object data, e.g. application/octet-stream. All Valid MIME Types are valid for this input.
- website_redirect (Optional) Specifies a target URL for website redirect.
- etag (Optional) Used to trigger updates. The only meaningful value is \${md5(file("path/to/file"))}. This attribute is not compatible with kms_key_id.
- server_side_encryption (Optional) Specifies server-side encryption of the object in S3. Valid values are "AES256" and "aws:kms".
- sse_kms_key_id (Optional) The ID of the kms key.

Either source or content must be provided to specify the bucket content. These two arguments are mutually-exclusive.

» Attributes Reference

The following attributes are exported

- id the key of the resource supplied above
- etag the ETag generated for the object (an MD5 sum of the object content).
- version_id A unique version ID value for the object, if bucket versioning is enabled.

» huaweicloud_s3_bucket_policy

Attaches a policy to an S3 bucket resource.

» Example Usage

» Basic Usage

```
resource "huaweicloud_s3_bucket" "b" {
  bucket = "my_tf_test_bucket"
}

resource "huaweicloud_s3_bucket_policy" "b" {
  bucket = "${huaweicloud_s3_bucket.b.id}"
  policy = <<POLICY
{
  "Version": "2012-10-17",
  "Id": "MYBUCKETPOLICY",</pre>
```

The following arguments are supported:

- bucket (Required) The name of the bucket to which to apply the policy.
- policy (Required) The text of the policy.

» Data Source: huaweicloud_sfs_file_sharing_v2

Provides information about an Shared File System (SFS).

» Example Usage

```
variable "share_name" { }

variable "share_id" { }

data "huaweicloud_sfs_file_sharing_v2" "shared_file"
{
    name = "${var.share_name}"
    id = "${var.share_id}"
}
```

» Argument Reference

The following arguments are supported:

- name (Optional) The name of the shared file system.
- id (Optional) The UUID of the shared file system.
- status (Optional) The status of the shared file system.

The following attributes are exported:

- availability_zone The availability zone name.
- size The size (GB) of the shared file system.
- share_type The storage service type for the shared file system, such as high-performance storage (composed of SSDs) or large-capacity storage (composed of SATA disks).
- status The status of the shared file system.
- host The host name of the shared file system.
- is_public The level of visibility for the shared file system.
- share_proto The protocol for sharing file systems.
- volume_type The volume type.
- metadata Metadata key and value pairs as a dictionary of strings.
- export_location The path for accessing the shared file system.
- access_level The level of the access rule.
- access_rules_status The status of the share access rule.
- access_type The type of the share access rule.
- access_to The access that the back end grants or denies.
- share_access_id The UUID of the share access rule.
- mount_id The UUID of the mount location of the shared file system.
- share_instance_id The access that the back end grants or denies.
- preferred Identifies which mount locations are most efficient and are used preferentially when multiple mount locations exist.

» huaweicloud_sfs_file_system_v2

Provides an Shared File System (SFS) resource.

» Example Usage

» Argument Reference

The following arguments are supported:

- size (Required) The size (GB) of the shared file system.
- share_proto (Optional) The protocol for sharing file systems. The default value is NFS.
- name (Optional) The name of the shared file system.
- description (Optional) Describes the shared file system.
- is_public (Optional) The level of visibility for the shared file system.
- metadata (Optional) Metadata key and value pairs as a dictionary of strings. Changing this will create a new resource.
- availability_zone (Optional) The availability zone name. Changing this parameter will create a new resource.
- access_level (Required) The access level of the shared file system. Changing this will create a new access rule.
- access_type (Optional) The type of the share access rule. Changing this will create a new access rule.
- access_to (Required) The access that the back end grants or denies. Changing this will create a new access rule

» Attributes Reference

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

- id The UUID of the shared file system.
- status The status of the shared file system.
- share_type The storage service type assigned for the shared file system, such as high-performance storage (composed of SSDs) and large-capacity storage (composed of SATA disks).
- volume_type The volume type.
- export_location The address for accessing the shared file system.
- host The host name of the shared file system.
- share_access_id The UUID of the share access rule.
- access_rules_status The status of the share access rule.

» Import

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

> \$ terraform import huaweicloud_sfs_file_system_v2 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

Manages a V2 subscription resource within HuaweiCloud.

```
topic_urn = "${huaweicloud_smn_topic_v2.topic_1.id}"
endpoint = "13600000000"
protocol = "sms"
remark = "0&M"
}
```

The following arguments are supported:

- topic_urn (Required) Resource identifier of a topic, which is unique.
- endpoint (Required) Message endpoint. For an HTTP subscription, the endpoint starts with http://. For an HTTPS subscription, the endpoint starts with https://. For an email subscription, the endpoint is a mail address. For an SMS message subscription, the endpoint is a phone number.
- protocol (Required) Protocol of the message endpoint. Currently, email, sms, http, and https are supported.
- remark (Optional) Remark information. The remarks must be a UTF-8-coded character string containing 128 bytes.
- subscription_urn (Optional) Resource identifier of a subscription, which is unique.
- owner (Optional) Project ID of the topic creator.
- status (Optional) Subscription status. 0 indicates that the subscription is not confirmed. 1 indicates that the subscription is confirmed. 3 indicates that the subscription is canceled.

» Attributes Reference

The following attributes are exported:

- topic_urn See Argument Reference above.
- endpoint See Argument Reference above.
- protocol See Argument Reference above.
- remark See Argument Reference above.
- subscription_urn See Argument Reference above.
- owner See Argument Reference above.
- status See Argument Reference above.

» huaweicloud_smn_topic_v2

Manages a V2 topic resource within HuaweiCloud.

» Example Usage

» Argument Reference

The following arguments are supported:

- name (Required) The name of the topic to be created.
- display_name (Optional) Topic display name, which is presented as the name of the email sender in an email message.
- topic_urn (Optional) Resource identifier of a topic, which is unique.
- push_policy (Optional) Message pushing policy. 0 indicates that the message sending fails and the message is cached in the queue. 1 indicates that the failed message is discarded.
- create_time (Optional) Time when the topic was created.
- update_time (Optional) Time when the topic was updated.

» Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- display_name See Argument Reference above.
- topic_urn See Argument Reference above.
- push_policy See Argument Reference above.
- create_time See Argument Reference above.
- update_time See Argument Reference above.

» huaweicloud_networking_network_v2

Use this data source to get the ID of an available HuaweiCloud network.

» Example Usage

```
data "huaweicloud_networking_network_v2" "network" {
  name = "tf_test_network"
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Neutron client. A Neutron client is needed to retrieve networks ids. If omitted, the region argument of the provider is used.
- network_id (Optional) The ID of the network.
- name (Optional) The name of the network.
- status (Optional) The status of the network.
- matching_subnet_cidr (Optional) The CIDR of a subnet within the network.
- tenant_id (Optional) The owner of the network.

» Attributes Reference

id is set to the ID of the found network. In addition, the following attributes are exported:

- admin_state_up (Optional) The administrative state of the network.
- name See Argument Reference above.
- region See Argument Reference above.
- shared (Optional) Specifies whether the network resource can be accessed by any tenant or not.

$\verb| huaweicloud_networking_port_v2| \\$

Use this data source to get the ID of an available HuaweiCloud port.

```
data "huaweicloud_networking_port_v2" "port_1" {
  name = "port_1"
}
```

- region (Optional) The region in which to obtain the V2 Neutron client. A Neutron client is needed to retrieve port ids. If omitted, the region argument of the provider is used.
- project_id (Optional) The owner of the port.
- port_id (Optional) The ID of the port.
- name (Optional) The name of the port.
- admin_state_up (Optional) The administrative state of the port.
- network_id (Optional) The ID of the network the port belongs to.
- device_owner (Optional) The device owner of the port.
- mac_address (Optional) The MAC address of the port.
- device_id (Optional) The ID of the device the port belongs to.
- fixed_ip (Optional) The port IP address filter.
- status (Optional) The status of the port.
- security_group_ids (Optional) The list of port security group IDs to filter.

» Attributes Reference

id is set to the ID of the found port. In addition, the following attributes are exported:

- region See Argument Reference above.
- project_id See Argument Reference above.
- port_id See Argument Reference above.
- name See Argument Reference above.
- admin_state_up See Argument Reference above.
- network_id See Argument Reference above.
- device_owner See Argument Reference above.
- mac_address See Argument Reference above.
- device_id See Argument Reference above.
- all_fixed_ips The collection of Fixed IP addresses on the port in the order returned by the Network v2 API.

• all_security_group_ids - The set of security group IDs applied on the port.

» huaweicloud_networking_secgroup_v2

Use this data source to get the ID of an available HuaweiCloud security group.

» Example Usage

```
data "huaweicloud_networking_secgroup_v2" "secgroup" {
  name = "tf_test_secgroup"
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Neutron client. A Neutron client is needed to retrieve security groups ids. If omitted, the region argument of the provider is used.
- secgroup_id (Optional) The ID of the security group.
- name (Optional) The name of the security group.
- tenant_id (Optional) The owner of the security group.

» Attributes Reference

id is set to the ID of the found security group. In addition, the following attributes are exported:

- name See Argument Reference above.
- description- The description of the security group.
- region See Argument Reference above.

» huaweicloud_networking_subnet_v2

Use this data source to get the ID of an available HuaweiCloud subnet.

» Example Usage

```
data "huaweicloud_networking_subnet_v2" "subnet_1" {
  name = "subnet_1"
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Neutron client. A Neutron client is needed to retrieve subnet ids. If omitted, the region argument of the provider is used.
- name (Optional) The name of the subnet.
- dhcp_enabled (Optional) If the subnet has DHCP enabled.
- dhcp_disabled (Optional) If the subnet has DHCP disabled.
- ip_version (Optional) The IP version of the subnet (either 4 or 6).
- gateway_ip (Optional) The IP of the subnet's gateway.
- cidr (Optional) The CIDR of the subnet.
- subnet_id (Optional) The ID of the subnet.
- network_id (Optional) The ID of the network the subnet belongs to.
- tenant_id (Optional) The owner of the subnet.

» Attributes Reference

id is set to the ID of the found subnet. In addition, the following attributes are exported:

- allocation_pools Allocation pools of the subnet.
- enable_dhcp Whether the subnet has DHCP enabled or not.
- dns nameservers DNS Nameservers of the subnet.
- host_routes Host Routes of the subnet.
- region See Argument Reference above.

» huaweicloud_vpc_v1

huaweicloud_vpc_v1 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.

» 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_name" {}

data "huaweicloud_vpc_v1" "vpc" {
  name = "${var.vpc_name}"
}
```

» Argument Reference

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

- region (Optional) The region in which to obtain the V1 VPC client. A VPC client is needed to retrieve VPCs. If omitted, the region argument of the provider is used.
- id (Optional) The id of the specific VPC to retrieve.
- status (Optional) The current status of the desired VPC. Can be either CREATING, OK, DOWN, PENDING_UPDATE, PENDING_DELETE, or ERROR.
- name (Optional) A unique name for the VPC. The name must be unique for a tenant. The value is a string of no more than 64 characters and can contain digits, letters, underscores (_), and hyphens (-).
- cidr (Optional) The cidr block of the desired VPC.

» Attributes Reference

The following attributes are exported:

- id ID of the VPC.
- name See Argument Reference above.
- status See Argument Reference above.
- cidr See Argument Reference above.
- routes The list of route information with destination and nexthop fields.
- shared Specifies whether the cross-tenant sharing is supported.
- region See Argument Reference above.

» Data Source: huaweicloud_vpc_peering_connection_v2

The VPC Peering Connection data source provides details about a specific VPC peering connection.

» Example Usage

» Argument Reference

The arguments of this data source act as filters for querying the available VPC peering connection. The given filters must match exactly one VPC peering connection whose data will be exported as attributes.

- id (Optional) The ID of the specific VPC Peering Connection to retrieve.
- status (Optional) The status of the specific VPC Peering Connection to retrieve.
- vpc_id (Optional) The ID of the requester VPC of the specific VPC Peering Connection to retrieve.
- peer_vpc_id (Optional) The ID of the accepter/peer VPC of the specific VPC Peering Connection to retrieve.
- peer_tenant_id (Optional) The Tenant ID of the accepter/peer VPC of the specific VPC Peering Connection to retrieve.
- name (Optional) The name of the specific VPC Peering Connection to retrieve.

» Attributes Reference

All of the argument attributes are exported as result attributes.

» Data Source: huaweicloud_vpc_route_ids_v2

huaweicloud_vpc_route_ids_v2 provides a list of route ids for a vpc_id. This resource can be useful for getting back a list of route ids for a vpc.

» Example Usage

```
variable "vpc_id" { }

data "huaweicloud_vpc_route_ids_v2" "example" {
   vpc_id = "${var.vpc_id}"
}

data "huaweicloud_vpc_route_v2" "vpc_route" {
   count = "${length(data.huaweicloud_vpc_route_ids_v2.example.ids)}"
   id = "${data.huaweicloud_vpc_route_ids_v2.example.ids[count.index]}"
}

output "route_nexthop" {
   value = ["${data.huaweicloud_vpc_route_v2.vpc_route.*.nexthop}"]
}
```

» Argument Reference

• vpc_id (Required) - The VPC ID that you want to filter from.

» Attributes Reference

• ids - A list of all the route ids found. This data source will fail if none are found.

» Data Source: huaweicloud_vpc_route_v2

huaweicloud_vpc_route_v2 provides details about a specific VPC route.

```
variable "route_id" { }
data "huaweicloud_vpc_route_v2" "vpc_route" {
```

```
id = "${var.route_id}"
}

resource "huaweicloud_vpc_subnet_v1" "subnet_v1" {
  name = "test-subnet"
  cidr = "192.168.0.0/24"
  gateway_ip = "192.168.0.1"
  vpc_id = "${data.huaweicloud_vpc_route_v2.vpc_route.vpc_id}"
}
```

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

- id (Optional) The id of the specific route to retrieve.
- vpc_id (Optional) The id of the VPC that the desired route belongs to.
- destination (Optional) The route destination address (CIDR).
- tenant_id (Optional) Only the administrator can specify the tenant ID of other tenants.
- type (Optional) Route type for filtering.

» Attribute Reference

All of the argument attributes are also exported as result attributes.

• nexthop - The next hop of the route. If the route type is peering, it will provide VPC peering connection ID.

» Data Source: huaweicloud_vpc_subnet_v1

huaweicloud_vpc_subnet_v1 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.

```
data "huaweicloud_vpc_subnet_v1" "subnet_v1" {
```

```
id = "${var.subnet_id}"
}
output "subnet_vpc_id" {
  value = "${data.huaweicloud_vpc_subnet_v1.subnet_v1.vpc_id}"
}
```

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

- id (Optional) Specifies a resource ID in UUID format.
- name (Optional) The name of the specific subnet to retrieve.
- cidr (Optional) The network segment of specific subnet to retrieve. The value must be in CIDR format.
- status (Optional) The value can be ACTIVE, DOWN, UNKNOWN, or ERROR.
- vpc_id (Optional) The id of the VPC that the desired subnet belongs to.
- gateway_ip (Optional) The subnet gateway address of specific subnet.
- primary_dns (Optional) The IP address of DNS server 1 on the specific subnet.
- secondary_dns (Optional) The IP address of DNS server 2 on the specific subnet.
- availability_zone (Optional) The availability zone (AZ) to which the subnet should belong.

» Attributes Reference

All of the argument attributes 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 subnet.

- dns list The IP address list of DNS servers on the subnet.
- dhcp_enable DHCP function for the subnet.
- subnet_id Specifies the subnet (Native OpenStack API) ID.

» Data Source: huaweicloud_vpc_subnet_ids_v1

huaweicloud_vpc_subnet_ids_v1 provides a list of subnet ids for a vpc_id This resource can be useful for getting back a list of subnet ids for a vpc.

» Example Usage

The following example shows outputing all cidr blocks for every subnet id in a vpc.

```
data "huaweicloud_vpc_subnet_ids_v1" "subnet_ids" {
    vpc_id = "${var.vpc_id}"
}

data "huaweicloud_vpc_subnet_v1" "subnet" {
    count = "${length(data.huaweicloud_vpc_subnet_ids_v1.subnet_ids.ids)}"
    id = "${data.huaweicloud_vpc_subnet_ids_v1.subnet_ids.ids[count.index]}"
}

output "subnet_cidr_blocks" {
    value = "${data.huaweicloud_vpc_subnet_v1.subnet.*.cidr}"
}
```

» Argument Reference

The following arguments are supported:

• vpc_id (Required) - Specifies the VPC ID used as the query filter.

» Attributes Reference

The following attributes are exported:

• ids - A list of all the subnet ids found. This data source will fail if none are found.

$\ \ \, \text{huaweicloud}_\text{networking}_\text{floatingip}_\text{v2}$

Manages a V2 floating IP resource within HuaweiCloud Neutron (networking) that can be used for load balancers. These are similar to Nova (compute) floating IP resources, but only compute floating IPs can be used with compute instances.

» Example Usage

```
resource "huaweicloud_networking_floatingip_v2" "floatip_1" {
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create a floating IP that can be used with another networking resource, such as a load balancer. If omitted, the region argument of the provider is used. Changing this creates a new floating IP (which may or may not have a different address).
- pool (Optional) The name of the pool from which to obtain the floating IP. Only admin_external_net is valid. Changing this creates a new floating IP.
- port_id (Optional) ID of an existing port with at least one IP address to associate with this floating IP.
- tenant_id (Optional) The target tenant ID in which to allocate the floating IP, if you specify this together with a port_id, make sure the target port belongs to the same tenant. Changing this creates a new floating IP (which may or may not have a different address)
- fixed_ip Fixed IP of the port to associate with this floating IP. Required if the port has multiple fixed IPs.
- value_specs (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- pool See Argument Reference above.
- address The actual floating IP address itself.
- port_id ID of associated port.
- tenant_id the ID of the tenant in which to create the floating IP.
- fixed ip The fixed IP which the floating IP maps to.

» Import

Floating IPs can be imported using the id, e.g.

» huaweicloud_networking_floatingip_associate_v2

Associates a floating IP to a port. This is useful for situations where you have a pre-allocated floating IP or are unable to use the huaweicloud_networking_floatingip_v2 resource to create a floating IP.

» Example Usage

```
resource "huaweicloud_networking_port_v2" "port_1" {
  network_id = "a5bbd213-e1d3-49b6-aed1-9df60ea94b9a"
}

resource "huaweicloud_networking_floatingip_associate_v2" "fip_1" {
  floating_ip = "1.2.3.4"
  port_id = "${huaweicloud_networking_port_v2.port_1.id}"
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create a floating IP that can be used with another networking resource, such as a load balancer. If omitted, the region argument of the provider is used. Changing this creates a new floating IP (which may or may not have a different address).
- floating_ip (Required) IP Address of an existing floating IP.
- port_id (Required) ID of an existing port with at least one IP address to associate with this floating IP.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- floating_ip See Argument Reference above.
- port_id See Argument Reference above.

» Import

Floating IP associations can be imported using the id of the floating IP, e.g.

\$ terraform import huaweicloud_networking_floatingip_associate_v2.fip 2c7f39f3-702b-48d1-940

» huaweicloud_networking_network_v2

Manages a V2 Neutron network resource within HuaweiCloud.

```
resource "huaweicloud_networking_network_v2" "network_1" {
                 = "network_1"
  admin_state_up = "true"
}
resource "huaweicloud_networking_subnet_v2" "subnet_1" {
            = "subnet_1"
 network_id = "${huaweicloud_networking_network_v2.network_1.id}"
            = "192.168.199.0/24"
  cidr
  ip\_version = 4
resource "huaweicloud_networking_secgroup_v2" "secgroup_1" {
 name = "secgroup_1"
  description = "a security group"
resource "huaweicloud_networking_secgroup_rule_v2" "secgroup_rule_1" {
  direction = "ingress"
  ethertype = "IPv4"
 port_range_max = 22
 port_range_min = 22
 protocol = "tcp"
 remote_ip_prefix = "0.0.0.0/0"
  security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup_1.id}"
}
resource "huaweicloud_networking_port_v2" "port_1" {
                     = "port 1"
 name
                     = "${huaweicloud_networking_network_v2.network_1.id}"
 network id
                    = "true"
  admin_state_up
  security_group_ids = ["${huaweicloud_networking_secgroup_v2.secgroup_1.id}"]
```

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create a Neutron network. If omitted, the region argument of the provider is used. Changing this creates a new network.
- name (Optional) The name of the network. Changing this updates the name of the existing network.
- shared (Optional) Specifies whether the network resource can be accessed by any tenant or not. Changing this updates the sharing capabalities of the existing network.
- tenant_id (Optional) The owner of the network. Required if admin wants to create a network for another tenant. Changing this creates a new network.
- admin_state_up (Optional) The administrative state of the network. Acceptable values are "true" and "false". Changing this value updates the state of the existing network.
- segments (Optional) An array of one or more provider segment objects.
- value_specs (Optional) Map of additional options.

The segments block supports:

- physical_network The phisical network where this network is implemented.
- segmentation id An isolated segment on the physical network.

• network_type - The type of physical network.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- shared See Argument Reference above.
- tenant_id See Argument Reference above.
- admin_state_up See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_networking_network_v2.network_1 d90ce693-5ccf-4136-a0ed-152cc

» huaweicloud_networking_port_v2

Manages a V2 port resource within HuaweiCloud.

» Example Usage

» Argument Reference

The following arguments are supported:

• region - (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a port. If omitted, the

- region argument of the provider is used. Changing this creates a new port.
- name (Optional) A unique name for the port. Changing this updates the name of an existing port.
- network_id (Required) The ID of the network to attach the port to. Changing this creates a new port.
- admin_state_up (Optional) Administrative up/down status for the port (must be "true" or "false" if provided). Changing this updates the admin_state_up of an existing port.
- mac_address (Optional) Specify a specific MAC address for the port. Changing this creates a new port.
- tenant_id (Optional) The owner of the Port. Required if admin wants to create a port for another tenant. Changing this creates a new port.
- device_owner (Optional) The device owner of the Port. Changing this creates a new port.
- security_group_ids (Optional Conflicts with no_security_groups) A list of security group IDs to apply to the port. The security groups must be specified by ID and not name (as opposed to how they are configured with the Compute Instance).
- no_security_groups (Optional Conflicts with security_group_ids) If set to true, then no security groups are applied to the port. If set to false and no security_group_ids are specified, then the Port will yield to the default behavior of the Networking service, which is to usually apply the "default" security group.
- device_id (Optional) The ID of the device attached to the port. Changing this creates a new port.
- fixed_ip (Optional) An array of desired IPs for this port. The structure is described below.
- allowed_address_pairs (Optional) An IP/MAC Address pair of additional IP addresses that can be active on this port. The structure is described below.
- extra_dhcp_option (Optional) An extra DHCP option that needs to be configured on the port. The structure is described below. Can be specified multiple times.
- value_specs (Optional) Map of additional options.

The fixed_ip block supports:

• subnet_id - (Required) Subnet in which to allocate IP address for this port.

• ip_address - (Optional) IP address desired in the subnet for this port. If you don't specify ip_address, an available IP address from the specified subnet will be allocated to this port. This field will not be populated if it is left blank. To retrieve the assigned IP address, use the all_fixed_ips attribute.

The allowed_address_pairs block supports:

- ip_address (Required) The additional IP address.
- mac_address (Optional) The additional MAC address.

The extra_dhcp_option block supports:

- name (Required) Name of the DHCP option.
- value (Required) Value of the DHCP option.
- ip_version (Optional) IP protocol version. Defaults to 4.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- admin_state_up See Argument Reference above.
- mac_address See Argument Reference above.
- tenant_id See Argument Reference above.
- device_owner See Argument Reference above.
- security_group_ids See Argument Reference above.
- device_id See Argument Reference above.
- fixed_ip See Argument Reference above.
- all_fixed_ips The collection of Fixed IP addresses on the port in the order returned by the Network v2 API.
- all_security_group_ids The collection of Security Group IDs on the port which have been explicitly and implicitly added.
- extra_dhcp_option See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_networking_port_v2.port_1 eae26a3e-1c33-4cc1-9c31-0cd729c438a

» Notes

» Ports and Instances

There are some notes to consider when connecting Instances to networks using Ports. Please see the huaweicloud_compute_instance_v2 documentation for further documentation.

» huaweicloud_networking_router_interface_v2

Manages a V2 router interface resource within HuaweiCloud.

» Example Usage

» Argument Reference

The following arguments are supported:

• region - (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a router. If omitted, the region argument of the provider is used. Changing this creates a new router interface.

- router_id (Required) ID of the router this interface belongs to. Changing this creates a new router interface.
- subnet_id ID of the subnet this interface connects to. Changing this creates a new router interface.
- port_id ID of the port this interface connects to. Changing this creates a new router interface.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- router_id See Argument Reference above.
- subnet id See Argument Reference above.
- port_id See Argument Reference above.

» Import

Router Interfaces can be imported using the port id, e.g.

```
$ openstack port list --router <router name or id>
$ terraform import huaweicloud_networking_router_interface_v2.int_1 <port id from above output</pre>
```

» huaweicloud_networking_router_route_v2

Creates a routing entry on a HuaweiCloud V2 router.

```
= "192.168.199.0/24"
  cidr
  ip\_version = 4
}
resource "huaweicloud_networking_router_interface_v2" "int_1" {
 router_id = "${huaweicloud_networking_router_v2.router_1.id}"
  subnet_id = "${huaweicloud_networking_subnet_v2.subnet_1.id}"
}
resource "huaweicloud_networking_router_route_v2" "router_route_1" {
                  = ["huaweicloud_networking_router_interface_v2.int_1"]
 depends_on
 router_id
                 = "${huaweicloud_networking_router_v2.router_1.id}"
 destination_cidr = "10.0.1.0/24"
                   = "192.168.199.254"
}
```

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 networking client. A networking client is needed to configure a routing entry on a router. If omitted, the region argument of the provider is used. Changing this creates a new routing entry.
- router_id (Required) ID of the router this routing entry belongs to. Changing this creates a new routing entry.
- destination_cidr (Required) CIDR block to match on the packet's destination IP. Changing this creates a new routing entry.
- next_hop (Required) IP address of the next hop gateway. Changing this creates a new routing entry.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- router_id See Argument Reference above.
- destination_cidr See Argument Reference above.
- next_hop See Argument Reference above.

» Notes

The next_hop IP address must be directly reachable from the router at the huaweicloud_networking_router_route_v2 resource creation time. You can ensure that by explicitly specifying a dependency on the huaweicloud_networking_router_interface_v2 resource that connects the next hop to the router, as in the example above.

» Import

```
Routing entries can be imported using a combined ID using the following format: <router_id>-route-<destination_cidr>-<next_hop>
```

 $\$\ terraform\ import\ huaweicloud_networking_router_route_v2.router_route_1\ 686fe248-386c-4f70-1686fe248-1686fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe2466fe$

» huaweicloud_networking_router_v2

Manages a V2 router resource within HuaweiCloud.

» Example Usage

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a router. If omitted, the region argument of the provider is used. Changing this creates a new router.
- name (Optional) A unique name for the router. Changing this updates the name of an existing router.
- admin_state_up (Optional) Administrative up/down status for the router (must be "true" or "false" if provided). Changing this updates the admin_state_up of an existing router.

- distributed (Optional) Indicates whether or not to create a distributed router. The default policy setting in Neutron restricts usage of this property to administrative users only.
- external_network_id (Optional) The network UUID of an external gateway for the router. A router with an external gateway is required if any compute instances or load balancers will be using floating IPs. Changing this updates the external gateway of the router.
- enable_snat (Optional) Enable Source NAT for the router. Valid values are "true" or "false". An external_network_id has to be set in order to set this property. Changing this updates the enable_snat of the router.
- external_fixed_ip (Optional) An external fixed IP for the router. This can be repeated. The structure is described below. An external_network_id has to be set in order to set this property. Changing this updates the external fixed IPs of the router.
- tenant_id (Optional) The owner of the floating IP. Required if admin wants to create a router for another tenant. Changing this creates a new router.
- value_specs (Optional) Map of additional driver-specific options.

The external_fixed_ip block supports:

- subnet_id (Optional) Subnet in which the fixed IP belongs to.
- ip_address (Optional) The IP address to set on the router.

» Attributes Reference

The following attributes are exported:

- id ID of the router.
- region See Argument Reference above.
- name See Argument Reference above.
- admin_state_up See Argument Reference above.
- external_network_id See Argument Reference above.
- enable_snat See Argument Reference above.
- external_fixed_ip See Argument Reference above.
- tenant_id See Argument Reference above.
- value_specs See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_networking_router_v2.router_1 014395cd-89fc-4c9b-96b7-13d1ee

» huaweicloud_networking_subnet_v2

Manages a V2 Neutron subnet resource within HuaweiCloud.

» Example Usage

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create a Neutron subnet. If omitted, the region argument of the provider is used. Changing this creates a new subnet.
- network_id (Required) The UUID of the parent network. Changing this creates a new subnet.
- cidr (Required) CIDR representing IP range for this subnet, based on IP version. Changing this creates a new subnet.
- ip_version (Optional) IP version, either 4 (default) or 6. Changing this creates a new subnet.
- name (Optional) The name of the subnet. Changing this updates the name of the existing subnet.
- tenant_id (Optional) The owner of the subnet. Required if admin wants to create a subnet for another tenant. Changing this creates a new subnet.
- allocation_pools (Optional) An array of sub-ranges of CIDR available for dynamic allocation to ports. The allocation_pool object structure is documented below. Changing this creates a new subnet.
- gateway_ip (Optional) Default gateway used by devices in this subnet. Leaving this blank and not setting no_gateway will cause a default gateway of .1 to be used. Changing this updates the gateway IP of the existing subnet.

- no_gateway (Optional) Do not set a gateway IP on this subnet. Changing this removes or adds a default gateway IP of the existing subnet.
- enable_dhcp (Optional) The administrative state of the network. The value must be "true".
- dns_nameservers (Optional) An array of DNS name server names used by hosts in this subnet. Changing this updates the DNS name servers for the existing subnet.
- host_routes (Optional) An array of routes that should be used by devices with IPs from this subnet (not including local subnet route). The host_route object structure is documented below. Changing this updates the host routes for the existing subnet.
- value_specs (Optional) Map of additional options.

The allocation_pools block supports:

- start (Required) The starting address.
- end (Required) The ending address.

The host_routes block supports:

- destination_cidr (Required) The destination CIDR.
- next_hop (Required) The next hop in the route.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- network_id See Argument Reference above.
- cidr See Argument Reference above.
- ip_version See Argument Reference above.
- name See Argument Reference above.
- tenant_id See Argument Reference above.
- allocation_pools See Argument Reference above.
- gateway_ip See Argument Reference above.
- enable_dhcp See Argument Reference above.
- dns_nameservers See Argument Reference above.
- host_routes See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_networking_subnet_v2.subnet_1 da4faf16-5546-41e4-8330-4d0002l

» huaweicloud_networking_secgroup_v2

Manages a V2 neutron security group resource within HuaweiCloud. Unlike Nova security groups, neutron separates the group from the rules and also allows an admin to target a specific tenant id.

» Example Usage

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a port. If omitted, the region argument of the provider is used. Changing this creates a new security group.
- name (Required) A unique name for the security group.
- description (Optional) A unique name for the security group.
- tenant_id (Optional) The owner of the security group. Required if admin wants to create a port for another tenant. Changing this creates a new security group.
- delete_default_rules (Optional) Whether or not to delete the default egress security rules. This is false by default. See the below note for more information.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- tenant_id See Argument Reference above.

» Default Security Group Rules

In most cases, HuaweiCloud will create some egress security group rules for each new security group. These security group rules will not be managed by Terraform, so if you prefer to have *all* aspects of your infrastructure managed by Terraform, set delete_default_rules to true and then create separate security group rules such as the following:

Please note that this behavior may differ depending on the configuration of the HuaweiCloud cloud. The above illustrates the current default Neutron behavior. Some HuaweiCloud clouds might provide additional rules and some might not provide any rules at all (in which case the delete_default_rules setting is moot).

» Import

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

\$ terraform import huaweicloud_networking_secgroup_v2.secgroup_1 38809219-5e8a-4852-9139-6f4

$\ \ \, \text{$\tt w$ huaweicloud_networking_secgroup_rule_v2}$

Manages a V2 neutron security group rule resource within HuaweiCloud. Unlike Nova security groups, neutron separates the group from the rules and also allows an admin to target a specific tenant_id.

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a port. If omitted, the region argument of the provider is used. Changing this creates a new security group rule.
- direction (Required) The direction of the rule, valid values are **ingress** or **egress**. Changing this creates a new security group rule.
- ethertype (Required) The layer 3 protocol type, valid values are **IPv4** or **IPv6**. Changing this creates a new security group rule.
- protocol (Optional) The layer 4 protocol type, valid values are following. Changing this creates a new security group rule. This is required if you want to specify a port range.
 - tcp - udp - icmp -ah- dccp - egp - esp - gre - igmp ipv6-encap ipv6-frag - ipv6-icmp ipv6-nonxt - ipv6-opts ipv6-route - ospf

– pgm

- rsvp
- sctp
- udplite
- vrrp
- port_range_min (Optional) The lower part of the allowed port range, valid integer value needs to be between 1 and 65535. Changing this creates a new security group rule.
- port_range_max (Optional) The higher part of the allowed port range, valid integer value needs to be between 1 and 65535. Changing this creates a new security group rule.
- remote_ip_prefix (Optional) The remote CIDR, the value needs to be a valid CIDR (i.e. 192.168.0.0/16). Changing this creates a new security group rule.
- remote_group_id (Optional) The remote group id, the value needs to be an Openstack ID of a security group in the same tenant. Changing this creates a new security group rule.
- security_group_id (Required) The security group id the rule should belong to, the value needs to be an Openstack ID of a security group in the same tenant. Changing this creates a new security group rule.
- tenant_id (Optional) The owner of the security group. Required if admin wants to create a port for another tenant. Changing this creates a new security group rule.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- direction See Argument Reference above.
- ethertype See Argument Reference above.
- protocol See Argument Reference above.
- port_range_min See Argument Reference above.
- port_range_max See Argument Reference above.
- remote_ip_prefix See Argument Reference above.
- remote_group_id See Argument Reference above.
- security_group_id See Argument Reference above.
- tenant_id See Argument Reference above.

» Import

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

» huaweicloud_networking_vip_v2

Manages a V2 vip resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_networking_network_v2" "network_1" {
 name = "network_1"
  admin_state_up = "true"
}
resource "huaweicloud_networking_subnet_v2" "subnet_1" {
 name = "subnet_1"
 cidr = "192.168.199.0/24"
 ip_version = 4
 network id = "${huaweicloud networking network v2.network 1.id}"
}
resource "huaweicloud_networking_router_interface_v2" "router_interface_1" {
 router_id = "${huaweicloud_networking_router_v2.router_1.id}"
  subnet_id = "${huaweicloud_networking_subnet_v2.subnet_1.id}"
resource "huaweicloud_networking_router_v2" "router_1" {
 name = "router_1"
  external_network_id = "0a2228f2-7f8a-45f1-8e09-9039e1d09975"
}
resource "huaweicloud networking vip v2" "vip 1" {
 network_id = "${huaweicloud_networking_network_v2.network_1.id}"
  subnet_id = "${huaweicloud_networking_subnet_v2.subnet_1.id}"
}
```

» Argument Reference

The following arguments are supported:

• network_id - (Required) The ID of the network to attach the vip to. Changing this creates a new vip.

- subnet_id (Required) Subnet in which to allocate IP address for this vip. Changing this creates a new vip.
- ip_address (Optional) IP address desired in the subnet for this vip. If you don't specify ip_address, an available IP address from the specified subnet will be allocated to this vip.
- name (Optional) A unique name for the vip.

» Attributes Reference

The following attributes are exported:

- network id See Argument Reference above.
- subnet_id See Argument Reference above.
- ip_address See Argument Reference above.
- name See Argument Reference above.
- status The status of vip.
- id The ID of the vip.
- tenant_id The tenant ID of the vip.
- device_owner The device owner of the vip.

» huaweicloud_networking_vip_associate_v2

Manages a V2 vip associate resource within HuaweiCloud.

```
resource "huaweicloud_networking_network_v2" "network_1" {
   name = "network_1"
   admin_state_up = "true"
}

resource "huaweicloud_networking_subnet_v2" "subnet_1" {
   name = "subnet_1"
   cidr = "192.168.199.0/24"
   ip_version = 4
   network_id = "${huaweicloud_networking_network_v2.network_1.id}"
}

resource "huaweicloud_networking_router_interface_v2" "router_interface_1" {
   router_id = "${huaweicloud_networking_router_v2.router_1.id}"
   subnet_id = "${huaweicloud_networking_subnet_v2.subnet_1.id}"
}
```

```
resource "huaweicloud_networking_router_v2" "router_1" {
 name = "router_1"
  external_network_id = "0a2228f2-7f8a-45f1-8e09-9039e1d09975"
}
resource "huaweicloud_networking_port_v2" "port_1" {
 name = "port_1"
  admin_state_up = "true"
 network_id = "${huaweicloud_networking_network_v2.network_1.id}"
 fixed_ip {
    subnet_id = "${huaweicloud_networking_subnet_v2.subnet_1.id}"
 }
}
resource "huaweicloud_compute_instance_v2" "instance_1" {
 name = "instance_1"
  security_groups = ["default"]
 network {
    port = "${huaweicloud_networking_port_v2.port_1.id}"
 }
}
resource "huaweicloud_networking_port_v2" "port_2" {
 name = "port_2"
  admin_state_up = "true"
 network_id = "${huaweicloud_networking_network_v2.network_1.id}"
 fixed_ip {
    subnet_id = "${huaweicloud_networking_subnet_v2.subnet_1.id}"
}
resource "huaweicloud_compute_instance_v2" "instance_2" {
 name = "instance_2"
 security_groups = ["default"]
 network {
    port = "${huaweicloud_networking_port_v2.port_2.id}"
 }
}
resource "huaweicloud_networking_vip_v2" "vip_1" {
  network_id = "${huaweicloud_networking_network_v2.network_1.id}"
```

```
subnet_id = "${huaweicloud_networking_subnet_v2.subnet_1.id}"
}

resource "huaweicloud_networking_vip_associate_v2" "vip_associate_1" {
   vip_id = "${huaweicloud_networking_vip_v2.vip_1.id}"
   port_ids = ["${huaweicloud_networking_port_v2.port_1.id}", "${huaweicloud_networking_port_}
}
```

The following arguments are supported:

- vip_id (Required) The ID of vip to attach the port to. Changing this creates a new vip associate.
- port_ids (Required) An array of one or more IDs of the ports to attach the vip to. Changing this creates a new vip associate.

» Attributes Reference

The following attributes are exported:

- vip id See Argument Reference above.
- port_ids See Argument Reference above.
- vip_subnet_id The ID of the subnet this vip connects to.
- vip_ip_address The IP address in the subnet for this vip.

» huaweicloud_vpc_bandwidth_v2

Manages a Shared Bandwidth resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_vpc_bandwidth_v2" "bandwidth_1" {
  name = "bandwidth_1"
  size = 5
}
```

» Argument Reference

The following arguments are supported:

• name - (Required) The name of the Shared Bandwidth.

- size (Required) The size of the Shared Bandwidth. The value ranges from 5 to 2000 G.
- enterprise_project_id (Optional) The enterprise project id of the Shared Bandwidth. Changing this creates a new bandwidth.

The following attributes are exported:

- id ID of the Shared Bandwidth.
- name See Argument Reference above.
- size See Argument Reference above.
- enterprise_project_id See Argument Reference above.

» Import

Shared Bandwidths can be imported using the id, e.g.

 $\$\ terraform\ import\ huaweicloud_vpc_bandwidth_v2.bandwidth_1\ 7117d38e-4c8f-4624-a505-bd96b97d2bandwidth_v2.bandwidth_$

» huaweicloud_vpc_eip_v1

Manages a V1 EIP resource within Huawei Cloud VPC.

» Example Usage

```
resource "huaweicloud_vpc_eip_v1" "eip_1" {
   publicip {
     type = "5_bgp"
   }
   bandwidth {
     name = "test"
     size = 8
     share_type = "PER"
     charge_mode = "traffic"
   }
}
```

» Example Usage of Share Bandwidth

```
resource "huaweicloud_vpc_bandwidth_v2" "bandwidth_1" {
    name = "bandwidth_1"
    size = 5
}

resource "huaweicloud_vpc_eip_v1" "eip_1" {
    publicip {
        type = "5_bgp"
    }
    bandwidth {
        id = "${huaweicloud_vpc_bandwidth_v2.bandwidth_1.id}"
        share_type = "WHOLE"
    }
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to create the eip. If omitted, the region argument of the provider is used. Changing this creates a new eip.
- publicip (Required) The elastic IP address object.
- bandwidth (Required) The bandwidth object.

The publicip block supports:

- type (Required) The value must be a type supported by the system. Only 5_bgp supported now. Changing this creates a new eip.
- ip_address (Optional) The value must be a valid IP address in the available IP address segment. Changing this creates a new eip.
- port_id (Optional) The port id which this eip will associate with. If the value is "" or this not specified, the eip will be in unbind state.

The bandwidth block supports:

- name (Optional) The bandwidth name, which is a string of 1 to 64 characters that contain letters, digits, underscores (_), and hyphens (-).
- size (Optional) The bandwidth size. The value ranges from 1 to 300 Mbit/s.
- id (Optional) The share bandwidth id. Changing this creates a new eip.
- share_type (Required) Whether the bandwidth is shared or exclusive. Changing this creates a new eip.

• charge_mode - (Optional) This is a reserved field. If the system supports charging by traffic and this field is specified, then you are charged by traffic for elastic IP addresses. Changing this creates a new eip.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- publicip/type See Argument Reference above.
- publicip/ip_address See Argument Reference above.
- publicip/port_id See Argument Reference above.
- bandwidth/name See Argument Reference above.
- bandwidth/size See Argument Reference above.
- bandwidth/share_type See Argument Reference above.
- bandwidth/charge_mode See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_vpc_eip_v1.eip_1 2c7f39f3-702b-48d1-940c-b50384177ee1

» huaweicloud_vpc_v1

Manages a VPC resource within HuaweiCloud.

» Example Usage

```
variable "vpc_name" {
  default = "huaweicloud_vpc"
}

variable "vpc_cidr" {
  default = "192.168.0.0/16"
}

resource "huaweicloud_vpc_v1" "vpc_v1" {
  name = "${var.vpc_name}"
  cidr = "${var.vpc_cidr}"
}
```

» Argument Reference

The following arguments are supported:

- cidr (Required) The range of available subnets in the VPC. The value ranges from 10.0.0.0/8 to 10.255.255.0/24, 172.16.0.0/12 to 172.31.255.0/24, or 192.168.0.0/16 to 192.168.255.0/24.
- region (Optional) The region in which to obtain the V1 VPC client. A
 VPC client is needed to create a VPC. If omitted, the region argument of
 the provider is used. Changing this creates a new VPC.
- name (Required) The name of the VPC. The name must be unique for a tenant. The value is a string of no more than 64 characters and can contain digits, letters, underscores (_), and hyphens (-). Changing this updates the name of the existing VPC.

» Attributes Reference

The following attributes are exported:

- id ID of the VPC.
- name See Argument Reference above.
- cidr See Argument Reference above.
- status The current status of the desired VPC. Can be either CRE-ATING, OK, DOWN, PENDING_UPDATE, PENDING_DELETE, or ERROR.
- shared Specifies whether the cross-tenant sharing is supported.
- region See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_vpc_v1.vpc_v1 7117d38e-4c8f-4624-a505-bd96b97d024c

» huaweicloud_vpc_subnet_v1

Provides an VPC subnet resource.

» Example Usage

```
resource "huaweicloud_vpc_v1" "vpc_v1" {
  name = "${var.vpc_name}"
  cidr = "${var.vpc_cidr}"
}

resource "huaweicloud_vpc_subnet_v1" "subnet_v1" {
  name = "${var.subnet_name}"
  cidr = "${var.subnet_cidr}"
  gateway_ip = "${var.subnet_gateway_ip}"
  vpc_id = "${huaweicloud_vpc_v1.vpc_v1.id}"
}
```

» Argument Reference

- name (Required) The subnet name. The value is a string of 1 to 64 characters that can contain letters, digits, underscores (_), and hyphens (-).
- cidr (Required) Specifies the network segment on which the subnet resides. The value must be in CIDR format. The value must be within the CIDR block of the VPC. The subnet mask cannot be greater than 28. Changing this creates a new Subnet.
- gateway_ip (Required) Specifies the gateway of the subnet. The value must be a valid IP address. The value must be an IP address in the subnet segment. Changing this creates a new Subnet.
- vpc_id (Required) Specifies the ID of the VPC to which the subnet belongs. Changing this creates a new Subnet.
- dhcp_enable (Optional) Specifies whether the DHCP function is enabled for the subnet. The value can be true or false. If this parameter is left blank, it is set to true by default.
- primary_dns (Optional) Specifies the IP address of DNS server 1 on the subnet. The value must be a valid IP address.
- secondary_dns (Optional) Specifies the IP address of DNS server 2 on the subnet. The value must be a valid IP address.
- dns_list (Optional) Specifies the DNS server address list of a subnet.
 This field is required if you need to use more than two DNS servers. This

parameter value is the superset of both DNS server address 1 and DNS server address 2.

• availability_zone (Optional) - Identifies the availability zone (AZ) to which the subnet belongs. The value must be an existing AZ in the system. Changing this creates a new Subnet.

» Attributes Reference

All of the argument attributes are also exported as result attributes:

- id Specifies a resource ID in UUID format.
- status Specifies the status of the subnet. The value can be ACTIVE, DOWN, UNKNOWN, or ERROR.
- subnet_id Specifies the subnet (Native OpenStack API) ID.

» Import

Subnets can be imported using the subnet id, e.g.

\$ terraform import huaweicloud_vpc_subnet_v1 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

» huaweicloud_vpc_route_v2

Provides a resource to create a route.

» Example Usage

```
resource "huaweicloud_vpc_route_v2" "vpc_route" {
  type = "peering"
  nexthop = "${var.nexthop}"
  destination = "192.168.0.0/16"
  vpc_id = "${var.vpc_id}"
}
```

» Argument Reference

- destination (Required) Specifies the destination IP address or CIDR block. Changing this creates a new Route.
- nexthop (Required) Specifies the next hop. If the route type is peering, enter the VPC peering connection ID. Changing this creates a new Route.
- type (Required) Specifies the route type. Currently, the value can only be **peering**. Changing this creates a new Route.
- vpc_id (Required) Specifies the VPC for which a route is to be added.
 Changing this creates a new Route.
- tenant_id (Optional) Specifies the tenant ID. Only the administrator can specify the tenant ID of other tenant. Changing this creates a new Route.

All of the argument attributes are also exported as result attributes:

• id - The route ID.

» huaweicloud_vpc_peering_connection_v2

Provides a resource to manage a VPC Peering Connection resource.

Note: For cross-tenant (requester's tenant differs from the accepter's tenant) VPC Peering Connections, use the huaweicloud_vpc_peering_connection_v2 resource to manage the requester's side of the connection and use the huaweicloud_vpc_peering_connection_accepter_v2 resource to manage the accepter's side of the connection.

» Example Usage

```
resource "huaweicloud_vpc_peering_connection_v2" "peering" {
  name = "${var.peer_conn_name}"
  vpc_id = "${var.vpc_id}"
  peer_vpc_id = "${var.accepter_vpc_id}"
}
```

» Argument Reference

- name (Required) Specifies the name of the VPC peering connection. The value can contain 1 to 64 characters.
- vpc_id (Required) Specifies the ID of a VPC involved in a VPC peering connection. Changing this creates a new VPC peering connection.
- peer_vpc_id (Required) Specifies the VPC ID of the accepter tenant. Changing this creates a new VPC peering connection.
- peer_tenant_id (Optional) Specified the Tenant Id of the accepter tenant. Changing this creates a new VPC peering connection.

All of the argument attributes are also exported as result attributes:

- id The VPC peering connection ID.
- status The VPC peering connection status. The value can be PENDING_ACCEPTANCE, REJECTED, EXPIRED, DELETED, or ACTIVE.

» Notes

If you create a VPC peering connection with another VPC of your own, the connection is created without the need for you to accept the connection.

» Import

VPC Peering resources can be imported using the vpc peering id, e.g.

 $\$ terraform import huaweicloud_vpc_peering_connection_v2.test_connection 22b76469-08e3-4937-8c1d-7aad34892be1

» huaweicloud_vpc_peering_connection_accepter_v2

Provides a resource to manage the accepter's side of a VPC Peering Connection.

When a cross-tenant (requester's tenant differs from the accepter's tenant) VPC Peering Connection is created, a VPC Peering Connection resource is automatically created in the accepter's account. The requester can use the huaweicloud_vpc_peering_connection_v2 resource to manage its side of the connection and the accepter can use the huaweicloud_vpc_peering_connection_accepter_v2 resource to "adopt" its side of the connection into management.

» Example Usage

```
provider "huaweicloud" {
    alias = "main"
   user name = "${var.username}"
   domain_name = "${var.domain_name}"
   password = "${var.password}"
   auth_url = "${var.auth_url}"
   region = "${var.region}"
   tenant_id = "${var.tenant_id}"
}
provider "huaweicloud" {
    alias = "peer"
   user_name = "${var.peer_username}"
   domain_name = "${var.peer_domain_name}"
   password = "${var.peer_password}"
   auth_url = "${var.peer_auth_url}"
              = "${var.peer_region}"
   region
   tenant_id = "${var.peer_tenant_id}"
}
resource "huaweicloud_vpc_v1" "vpc_main" {
   provider = "huaweicloud.main"
   name = "${var.vpc name}"
   cidr = "${var.vpc_cidr}"
}
resource "huaweicloud_vpc_v1" "vpc_peer" {
   provider = "huaweicloud.peer"
   name = "${var.peer_vpc_name}"
   cidr = "${var.peer_vpc_cidr}"
}
# Requester's side of the connection.
resource "huaweicloud_vpc_peering_connection_v2" "peering" {
   provider = "huaweicloud.main"
   name = "${var.peer_name}"
   vpc_id = "${huaweicloud_vpc_v1.vpc_main.id}"
   peer_vpc_id = "${huaweicloud_vpc_v1.vpc_peer.id}"
   peer_tenant_id = "${var.tenant_id}"
}
# Accepter's side of the connection.
resource "huaweicloud_vpc_peering_connection_accepter_v2" "peer" {
```

```
provider = "huaweicloud.peer"
   vpc_peering_connection_id = "${huaweicloud_vpc_peering_connection_v2.peering.id}"
   accept = true
}
```

» Argument Reference

The following arguments are supported:

- vpc_peering_connection_id (Required) The VPC Peering Connection ID to manage. Changing this creates a new VPC peering connection accepter.
- accept (Optional)- Whether or not to accept the peering request. Defaults to false.

huaweicloud allows a cross-tenant VPC Peering Connection to be deleted from either the requester's or accepter's side. However, Terraform only allows the VPC Peering Connection to be deleted from the requester's side by removing the corresponding huaweicloud_vpc_peering_connection_v2 resource from your configuration. Removing a huaweicloud_vpc_peering_connection_accepter_v2 resource from your configuration will remove it from your state file and management, but will not destroy the VPC Peering Connection.

» Attributes Reference

All of the argument attributes except accept are also exported as result attributes.

- name The VPC peering connection name.
- id The VPC peering connection ID.
- status The VPC peering connection status.
- vpc_id The ID of requester VPC involved in a VPC peering connection.
- peer_vpc_id The VPC ID of the accepter tenant.
- peer_tenant_id The Tenant Id of the accepter tenant.

» huaweicloud_vpnaas_ipsec_policy_v2

Manages a V2 IPSec policy resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_vpnaas_ipsec_policy_v2" "policy_1" {
  name = "my_policy"
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an IPSec policy. If omitted, the region argument of the provider is used. Changing this creates a new policy.
- name (Optional) The name of the policy. Changing this updates the name of the existing policy.
- tenant_id (Optional) The owner of the policy. Required if admin wants to create a policy for another project. Changing this creates a new policy.
- description (Optional) The human-readable description for the policy. Changing this updates the description of the existing policy.
- auth_algorithm (Optional) The authentication hash algorithm. Valid values are md5, sha1, sha2-256, sha2-384, sha2-512. Default is sha1. Changing this updates the algorithm of the existing policy.
- encapsulation_mode (Optional) The encapsulation mode. Valid values are tunnel and transport. Default is tunnel. Changing this updates the existing policy.
- encryption_algorithm (Optional) The encryption algorithm. Valid values are 3des, aes-128, aes-192 and so on. The default value is aes-128. Changing this updates the existing policy.
- pfs (Optional) The perfect forward secrecy mode. Valid values are Group2, Group5 and Group14. Default is Group5. Changing this updates the existing policy.
- transform_protocol (Optional) The transform protocol. Valid values are ESP, AH and AH-ESP. Changing this updates the existing policy. Default is ESP.

- lifetime (Optional) The lifetime of the security association. Consists of Unit and Value.
 - unit (Optional) The units for the lifetime of the security association.
 Can be either seconds or kilobytes. Default is seconds.
 - value (Optional) The value for the lifetime of the security association. Must be a positive integer. Default is 3600.
- value_specs (Optional) Map of additional options.

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- tenant_id See Argument Reference above.
- description See Argument Reference above.
- auth_algorithm See Argument Reference above.
- encapsulation_mode See Argument Reference above.
- encryption_algorithm See Argument Reference above.
- pfs See Argument Reference above.
- transform_protocol See Argument Reference above.
- lifetime See Argument Reference above.
 - unit See Argument Reference above.
 - value See Argument Reference above.
- value_specs See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_vpnaas_ipsec_policy_v2.policy_1 832cb7f3-59fe-40cf-8f64-8350:

$\ \ \, \text{huaweicloud_vpnaas_ike_policy_v2}$

Manages a V2 IKE policy resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_vpnaas_ike_policy_v2" "policy_1" {
  name = "my_policy"
}
```

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create a VPN service. If omitted, the region argument of the provider is used. Changing this creates a new service.
- name (Optional) The name of the policy. Changing this updates the name of the existing policy.
- tenant_id (Optional) The owner of the policy. Required if admin wants to create a service for another policy. Changing this creates a new policy.
- description (Optional) The human-readable description for the policy. Changing this updates the description of the existing policy.
- auth_algorithm (Optional) The authentication hash algorithm. Valid values are md5, sha1, sha2-256, sha2-384, sha2-512. Default is sha1. Changing this updates the algorithm of the existing policy.
- encryption_algorithm (Optional) The encryption algorithm. Valid values are 3des, aes-128, aes-192 and so on. The default value is aes-128. Changing this updates the existing policy.
- pfs (Optional) The perfect forward secrecy mode. Valid values are Group2, Group5 and Group14. Default is Group5. Changing this updates the existing policy.
- phase1_negotiation_mode (Optional) The IKE mode. A valid value is main, which is the default. Changing this updates the existing policy.
- ike_version (Optional) The IKE mode. A valid value is v1 or v2. Default is v1. Changing this updates the existing policy.
- lifetime (Optional) The lifetime of the security association. Consists of Unit and Value.
 - unit (Optional) The units for the lifetime of the security association.
 Can be either seconds or kilobytes. Default is seconds.
 - value (Optional) The value for the lifetime of the security association. Must be a positive integer. Default is 3600.
- value specs (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

• region - See Argument Reference above.

- name See Argument Reference above.
- tenant_id See Argument Reference above.
- description See Argument Reference above.
- auth_algorithm See Argument Reference above.
- encapsulation_mode See Argument Reference above.
- encryption_algorithm See Argument Reference above.
- pfs See Argument Reference above.
- transform_protocol See Argument Reference above.
- lifetime See Argument Reference above.
 - unit See Argument Reference above.
 - value See Argument Reference above.
- value_specs See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_vpnaas_ike_policy_v2.policy_1 832cb7f3-59fe-40cf-8f64-8350ffc

» huaweicloud_vpnaas_service_v2

Manages a V2 VPN service resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_vpnaas_service_v2" "service_1" {
  name = "my_service"
  router_id = "14a75700-fc03-4602-9294-26ee44f366b3"
  admin_state_up = "true"
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create a VPN service. If omitted, the region argument of the provider is used. Changing this creates a new service.
- name (Optional) The name of the service. Changing this updates the name of the existing service.

- tenant_id (Optional) The owner of the service. Required if admin wants to create a service for another project. Changing this creates a new service.
- description (Optional) The human-readable description for the service. Changing this updates the description of the existing service.
- admin_state_up (Optional) The administrative state of the resource. Can either be up(true) or down(false). Changing this updates the administrative state of the existing service.
- subnet_id (Optional) SubnetID is the ID of the subnet. Default is null.
- router_id (Required) The ID of the router. Changing this creates a new service.
- value_specs (Optional) Map of additional options.

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- tenant_id See Argument Reference above.
- router_id See Argument Reference above.
- admin_state_up See Argument Reference above.
- subnet_id See Argument Reference above.
- status Indicates whether IPsec VPN service is currently operational. Values are ACTIVE, DOWN, BUILD, ERROR, PENDING_CREATE, PENDING UPDATE, or PENDING DELETE.
- external_v6_ip The read-only external (public) IPv6 address that is used for the VPN service.
- external_v4_ip The read-only external (public) IPv4 address that is used for the VPN service.
- description See Argument Reference above.
- value_specs See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_vpnaas_service_v2.service_1 832cb7f3-59fe-40cf-8f64-8350ffc03

» huaweicloud_vpnaas_endpoint_group_v2

Manages a V2 Endpoint Group resource within HuaweiCloud.

» Example Usage

» Argument Reference

The following arguments are supported:

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an endpoint group. If omitted, the region argument of the provider is used. Changing this creates a new group.
- name (Optional) The name of the group. Changing this updates the name of the existing group.
- tenant_id (Optional) The owner of the group. Required if admin wants to create an endpoint group for another project. Changing this creates a new group.
- description (Optional) The human-readable description for the group. Changing this updates the description of the existing group.
- type The type of the endpoints in the group. A valid value is subnet, cidr, network, router, or vlan. Changing this creates a new group.
- endpoints List of endpoints of the same type, for the endpoint group. The values will depend on the type. Changing this creates a new group.
- value_specs (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- tenant_id See Argument Reference above.
- description See Argument Reference above.
- type See Argument Reference above.
- endpoints See Argument Reference above.
- value_specs See Argument Reference above.

» Import

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

\$ terraform import huaweicloud_vpnaas_endpoint_group_v2.group_1 832cb7f3-59fe-40cf-8f64-8350

» huaweicloud_vpnaas_site_connection_v2

Manages a V2 IPSec site connection resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_vpnaas_site_connection_v2" "conn_1" {
    name = "connection_1"
    ikepolicy_id = "${huaweicloud_vpnaas_ike_policy_v2.policy_2.id}"
    ipsecpolicy_id = "${huaweicloud_vpnaas_ipsec_policy_v2.policy_1.id}"
    vpnservice_id = "${huaweicloud_vpnaas_service_v2.service_1.id}"
    psk = "secret"
    peer_address = "192.168.10.1"
    local_ep_group_id = "${huaweicloud_vpnaas_endpoint_group_v2.group_2.id}"
    peer_ep_group_id = "${huaweicloud_vpnaas_endpoint_group_v2.group_1.id}"
}
```

» Argument Reference

- region (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an IPSec site connection. If omitted, the region argument of the provider is used. Changing this creates a new site connection.
- name (Optional) The name of the connection. Changing this updates the name of the existing connection.
- tenant_id (Optional) The owner of the connection. Required if admin
 wants to create a connection for another project. Changing this creates a
 new connection.
- description (Optional) The human-readable description for the connection. Changing this updates the description of the existing connection.
- admin_state_up (Optional) The administrative state of the resource. Can either be up(true) or down(false). Changing this updates the administrative state of the existing connection.

- ikepolicy_id (Required) The ID of the IKE policy. Changing this creates a new connection.
- vpnservice_id (Required) The ID of the VPN service. Changing this creates a new connection.
- local_ep_group_id (Optional) The ID for the endpoint group that contains private subnets for the local side of the connection. You must specify this parameter with the peer_ep_group_id parameter unless in backward-compatible mode where peer_cidrs is provided with a subnet_id for the VPN service. Changing this updates the existing connection.
- ipsecpolicy_id (Required) The ID of the IPsec policy. Changing this creates a new connection.
- peer_id (Required) The peer router identity for authentication. A valid value is an IPv4 address, IPv6 address, e-mail address, key ID, or FQDN. Typically, this value matches the peer_address value. Changing this updates the existing policy.
- peer_ep_group_id (Optional) The ID for the endpoint group that contains private CIDRs in the form < net_address > / < prefix > for the peer side of the connection. You must specify this parameter with the local_ep_group_id parameter unless in backward-compatible mode where peer cidrs is provided with a subnet id for the VPN service.
- local_id (Optional) An ID to be used instead of the external IP address for a virtual router used in traffic between instances on different networks in east-west traffic. Most often, local ID would be domain name, email address, etc. If this is not configured then the external IP address will be used as the ID.
- peer_address (Required) The peer gateway public IPv4 or IPv6 address or FQDN.
- psk (Required) The pre-shared key. A valid value is any string.
- initiator (Optional) A valid value is response-only or bi-directional.
 Default is bi-directional.
- peer_cidrs (Optional) Unique list of valid peer private CIDRs in the form < net_address > / < prefix > .
- dpd (Optional) A dictionary with dead peer detection (DPD) protocol controls.
 - action (Optional) The dead peer detection (DPD) action. A valid value is clear, hold, restart, disabled, or restart-by-peer. Default value is hold.
 - timeout (Optional) The dead peer detection (DPD) timeout in seconds. A valid value is a positive integer that is greater than the DPD interval value. Default is 120.

- interval (Optional) The dead peer detection (DPD) interval, in seconds. A valid value is a positive integer. Default is 30.
- mtu (Optional) The maximum transmission unit (MTU) value to address fragmentation. Minimum value is 68 for IPv4, and 1280 for IPv6.
- value_specs (Optional) Map of additional options.

The following attributes are exported:

- region See Argument Reference above.
- name See Argument Reference above.
- tenant_id See Argument Reference above.
- admin state up See Argument Reference above.
- description See Argument Reference above.
- dpd See Argument Reference above.
- psk See Argument Reference above.
- initiator See Argument Reference above.
- peer_address See Argument Reference above.
- peer_id See Argument Reference above.
- peer_cidrs See Argument Reference above.
- mtu See Argument Reference above.
- local_id See Argument Reference above.
- peer_ep_group_id See Argument Reference above.
- ipsecpolicy_id See Argument Reference above.
- vpnservice_id See Argument Reference above.
- ikepolicy_id See Argument Reference above.
- value_specs See Argument Reference above.

» Import

Site Connections can be imported using the id, e.g.

\$ terraform import huaweicloud_vpnaas_site_connection_v2.conn_1 832cb7f3-59fe-40cf-8f64-8350

» Data Source: huaweicloud_vbs_backup_policy_v2

The VBS Backup Policy data source provides details about a specific VBS backup policy.

» Example Usage

```
variable "policy_name" {}

variable "policy_id" {}

data "huaweicloud_vbs_backup_policy_v2" "policies" {
  name = "${var.policy_name}"
  id = "${var.policy_id}"
}
```

» Argument Reference

The arguments of this data source act as filters for querying the available VBS backup policy. The given filters must match exactly one VBS backup policy whose data will be exported as attributes.

- id (Optional) The ID of the specific VBS backup policy to retrieve.
- name (Optional) The name of the specific VBS backup policy to retrieve.
- status (Optional) The status of the specific VBS backup policy to retrieve. The values can be ON or OFF

filter_tags - (Optional) Represents the list of tags. Backup policy with these tags will be filtered.

- key (Required) Specifies the tag key. Tag keys must be unique.
- values (Required) Specifies the List of tag values. This list can have a maximum of 10 values and all be unique.

» Attributes Reference

The following attributes are exported:

- id See Argument Reference above.
 - name See Argument Reference above.
 - status See Argument Reference above.
 - start_time Specifies the start time of the backup job. The value is in the HH:mm format.
 - retain_first_backup Specifies whether to retain the first backup in the current month.
 - rentention_num Specifies number of retained backups.

• frequency - Specifies the backup interval. The value is in the range of 1 to 14 days.

tags - Represents the list of tag details associated with the backup policy.

- key Specifies the tag key.
- value Specifies the tag value.

» Data Source: huaweicloud_vbs_backup_v2

The VBS Backup data source provides details about a specific VBS Backup.

» Example Usage

```
variable "backup_id" {}

data "huaweicloud_vbs_backup_v2" "mybackup" {
  id = "${var.backup_id}"
}
```

» Argument Reference

The following arguments are supported:

- id (Optional) The id of the vbs backup.
- name (Optional) The name of the vbs backup.
- volume_id (Optional) The source volume ID of the backup.
- snapshot_id (Optional) ID of the snapshot associated with the backup.
- status (Optional) The status of the VBS backup.

» Attributes Reference

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

- description The description of the vbs backup.
- availability_zone The AZ where the backup resides.
- size The size of the vbs backup.
- container The container of the backup.
- service_metadata The metadata of the vbs backup.

» huaweicloud_vbs_backup_policy_v2

Provides an VBS Backup Policy resource.

» Example Usage

```
resource "huaweicloud_vbs_backup_policy_v2" "vbs" {
                      = "policy_002"
 name
                      = "12:00"
  start_time
 status
                      = "ON"
 retain_first_backup = "N"
 rentention_num
 frequency
  tags = [
    {
           = "k1"
     key
      value = "v1"
 }]
```

» Argument Reference

The following arguments are supported:

- name (Required) Specifies the policy name. The value is a string of 1 to 64 characters that can contain letters, digits, underscores (_), and hyphens (-). It cannot start with default.
- start_time (Required) Specifies the start time of the backup job. The value is in the HH:mm format.
- status (Required) Specifies the backup policy status. The value can ON or OFF.
- retain_first_backup (Required) Specifies whether to retain the first backup in the current month. Possible values are Y or N.
- rentention_num (Required) Specifies number of retained backups. Minimum value is 2.
- frequency (Required) Specifies the backup interval. The value is in the range of 1 to 14 days.

tags - (Optional) Represents the list of tags to be configured for the backup policy.

- key (Required) Specifies the tag key. A tag key consists of up to 36 characters, chosen from letters, digits, hyphens (-), and underscores (_).
- value (Required) Specifies the tag value. A tag value consists of 0 to 43 characters, chosen from letters, digits, hyphens (-), and underscores (_).

All of the argument attributes are also exported as result attributes:

- id Specifies a backup policy ID.
- policy_resource_count Specifies the number of volumes associated with the backup policy.

» Import

Backup Policy can be imported using the id, e.g.

\$ terraform import huaweicloud_vbs_backup_policy_v2.vbs 4779ab1c-7c1a-44b1-a02e-93dfc361b32c

> huaweicloud_vbs_backup_v2

Provides an VBS Backup resource.

» Example Usage

```
variable "backup_name" {}

variable "volume_id" {}

resource "huaweicloud_vbs_backup_v2" "mybackup" {
  volume_id = "${var.volume_id}"
  name = "${var.backup_name}"
}
```

» Argument Reference

- name (Required) The name of the vbs backup. Changing the parameter creates a new backup.
- volume_id (Required) The id of the disk to be backed up. Changing the parameter creates a new backup.
- snapshot_id (Optional) The snapshot id of the disk to be backed up. Changing the parameter creates a new backup.
- description (Optional) The description of the vbs backup. Changing the parameter creates a new backup.

tags - (Optional) List of tags to be configured for the backup resources. Changing the parameter creates a new backup.

- key (Required) Specifies the tag key. Changing the parameter creates a new backup
- value (Required) Specifies the tag value. Changing the parameter creates a new backup

» Attributes Reference

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

- id The id of the vbs backup.
- container The container of the backup.
- status The status of the VBS backup.
- availability_zone The AZ where the backup resides.
- fail_reason Cause of the backup failure.
- size The size of the vbs backup.
- object_count Number of objects on Object Storage Service (OBS) for the disk data.
- tenant_id The ID of the tenant to which the backup belongs.
- service_metadata The metadata of the vbs backup.

» Import

VBS Backup can be imported using the backup id, e.g.

\$ terraform import huaweicloud_vbs_backup_v2.mybackup 4779ab1c-7c1a-44b1-a02e-93dfc361b32d