

» 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

Role Name	Policy Name
nat_adm	NAT Gateway Administrator
dds_adm	DDS Administrator
ims_adm	IMS Administrator
smn_adm	SMN Administrator
plas_adm	Config Plas Connector
elb_adm	ELB Administrator

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

» Argument Reference

- **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__images__image__v2

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

» Example Usage

```
data "huaweicloud_images_image_v2" "ubuntu" {
  name = "Ubuntu 16.04"
  most_recent = true

  properties {
    key = "value"
  }
}
```

» 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.
- **properties** - (Optional) a map of key/value pairs to match an image with. All specified properties must be matched.
- **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. 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. See <http://docs.huaweicloud.org/developer/glance/metadefs-concepts.html>.
- **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_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.
- **availability_zone_hints** - (Optional) The availability zone candidates for 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.

- **availability_zone_hints** - (Optional) The availability zone candidates for the network.

» **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__kms__key__v1

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

» Example Usage

```
data "huaweicloud_kms_key_v1" "key_1" {
  key_alias      = "test_key"
  key_description = "test key description"
  key_state      = "2"
  key_id         = "af650527-a0ff-4527-aef3-c493df1f3012"
  realm          = "cn-north-1"
  default_key_flag = "0"
  domain_id      = "b168fe00ff56492495a7d22974df2d0b"
}
```

» 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_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

```
resource "huaweicloud_kms_key_v1" "key1" {
  key_alias      = "key_1"
  pending_days   = "7"
  key_description = "first test key"
}

data "huaweicloud_kms_data_key_v1" "kms_datakey1" {
  key_id          = "${huaweicloud_kms_key_v1.key1.id}"
  datakey_length = "512"
}
```

» 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_rds_flavors_v1

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

» Example Usage

```
data "huaweicloud_rds_flavors_v1" "flavor" {
  region = "eu-de"
  datastore_name = "PostgreSQL"
  datastore_version = "9.5.5"
  speccode = "rds.pg.s1.medium"
}
```

» 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.c2.3xlarge.ha ha = False: rds.pg.s1.xlarge rds.pg.m1.2xlarge rds.pg.c2.xlarge rds.pg.s1.medium rds.pg.c2.xlarge

datastore_name	datastore_version	speccode
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	
SQLServer	2014 SP2 SE	ha = True:
		rds.mssql.m1.2xlarge.ha rds.mssql.m1.xlarge.ha rds.mssql.m1.4xlarge.l
		ha = False:
		rds.mssql.m1.2xlarge rds.mssql.m1.xlarge rds.mssql.m1.4xlarge rds.ms

» Attributes Reference

`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_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 v

Attributes Reference

The following attributes are exported:

- * ``body`` - Object data (see **limitations above** to understand cases in which this field is
- * ``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
- * ``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 object data.
- * ``etag`` - [ETag] (https://en.wikipedia.org/wiki/HTTP_ETag) generated for the object (an MD5
- * ``expiration`` - If the object expiration is configured (see [object lifecycle management] (l
- * ``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 20`
- * ``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 An
- * ``sse_kms_key_id`` - If present, specifies the ID of the Key Management Service (KMS) master
- * ``storage_class`` - [Storage class] (<http://docs.aws.amazon.com/AmazonS3/latest/dev/storage-c>
- * ``version_id`` - The latest version ID of the object returned.
- * ``website_redirect_location`` - If the bucket is configured as a website, redirects requests
- * ``tags`` - A mapping of tags assigned to the object.

» 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.

» Attributes Reference

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_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.

» **Attributes Reference**

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.

» 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}"
}
```

» Argument Reference

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__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_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.

» Example Usage

```
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}"
}
```

» Argument Reference

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 outputting 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.

» Data Source: huaweicloud_vpc_peering_connection_v2

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

» Example Usage

```
data "huaweicloud_vpc_peering_connection_v2" "peering" {
  vpc_id          = "${huaweicloud_vpc_v1.vpc.id}"
  peer_vpc_id     = "${huaweicloud_vpc_v1.peer_vpc.id}"
}

resource "huaweicloud_vpc_route_v2" "vpc_route" {
  type      = "peering"
  nexthop   = "${data.huaweicloud_vpc_peering_connection_v2.peering.id}"
  destination = "192.168.0.0/16"
  vpc_id    = "${huaweicloud_vpc_v1.vpc.id}"
}
```

» 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 acceptor/peer VPC of the specific VPC Peering Connection to retrieve.
- `peer_tenant_id` (Optional) - The Tenant ID of the acceptor/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_v2`

`huaweicloud_vpc_route_v2` provides details about a specific VPC route.

» Example Usage

```
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}"
}
```

» Argument Reference

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_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.

» 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

The following arguments are supported:

- `Cluster_id` - (Required) The id of container cluster.
- `name` - (Optional) - Name of the node.
- `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)

root_volumes

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

data_volumes

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

» 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}"
}
```

» Argument Reference

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_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.

» 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_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.
- **retention_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.

» 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.

» 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__dcs__product__v1

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

» Example Usage

```
data "huaweicloud_dcs_product_v1" "product1" {  
  engine = "kafka"  
  version = "1.1.0"  
  instance_type = "cluster"  
  partition_num = 300  
  storage = 600  
  storage_spec_code = "dcs.physical.storage.high"  
}
```

» 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_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.

» **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_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_blockstorage_volume_v2

Manages a V2 volume resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_blockstorage_volume_v2" "volume_1" {  
  region      = "RegionOne"  
  name        = "volume_1"  
  description = "first test volume"  
  size        = 3  
}
```

» Argument Reference

The following arguments are supported:

- **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). Changing this creates a new volume.
- **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.

» Attributes Reference

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_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" {
  pool = "public"
}
```

» 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 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** - (Required) The name of the pool from which to obtain the floating IP. 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-e2b99
```

» 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_compute_instance_v2" "instance_1" {
  name          = "instance_1"
  image_id      = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor_id     = 3
  key_pair      = "my_key_pair_name"
  security_groups = ["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}"
}
```

» Explicitly set the network to attach to

```
resource "huaweicloud_compute_instance_v2" "instance_1" {
```

```

name          = "instance_1"
image_id      = "ad091b52-742f-469e-8f3c-fd81cadf0743"
flavor_id     = 3
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}"
  fixed_ip    = "${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 associate 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_id>
```

» huaweicloud_compute_instance_v2

Manages a V2 VM instance resource within HuaweiCloud.

» Example Usage

» Basic Instance

```
resource "huaweicloud_compute_instance_v2" "basic" {
  name          = "basic"
  image_id      = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor_id     = "3"
  key_pair      = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"

  metadata {
    this = "that"
  }

  network {
    name = "my_network"
  }
}
```

» 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"
  flavor_id      = "3"
  key_pair       = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"

  network {
    name = "my_network"
  }
}

resource "huaweicloud_compute_volume_attach_v2" "attached" {
  compute_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"
  flavor_id      = "3"
  key_pair       = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"

  block_device {
    uuid           = "<image-id>"
    source_type    = "image"
    volume_size    = 5
    boot_index     = 0
    destination_type = "volume"
    delete_on_termination = true
  }

  network {
    name = "my_network"
  }
}

```

» Boot From an Existing Volume

```

resource "huaweicloud_blockstorage_volume_v1" "myvol" {

```



```

    name      = "myvol"
    size      = 5
    image_id  = "<image-id>"
  }

resource "huaweicloud_compute_instance_v2" "boot-from-volume" {
  name          = "bootfromvolume"
  flavor_id     = "3"
  key_pair      = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"

  block_device {
    uuid          = "${huaweicloud_blockstorage_volume_v1.myvol.id}"
    source_type   = "volume"
    boot_index    = 0
    destination_type = "volume"
    delete_on_termination = true
  }

  network {
    name = "my_network"
  }
}

```

» Boot Instance, Create Volume, and Attach Volume as a Block Device

```

resource "huaweicloud_compute_instance_v2" "instance_1" {
  name          = "instance_1"
  image_id      = "<image-id>"
  flavor_id     = "3"
  key_pair      = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"

  block_device {
    uuid          = "<image-id>"
    source_type   = "image"
    destination_type = "local"
    boot_index    = 0
    delete_on_termination = true
  }

  block_device {

```

```

        source_type          = "blank"
        destination_type     = "volume"
        volume_size          = 1
        boot_index           = 1
        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" {
    name          = "instance_1"
    image_id      = "<image-id>"
    flavor_id     = "3"
    key_pair      = "my_key_pair_name"
    security_groups = ["default"]
    availability_zone = "az"

    block_device {
        uuid          = "<image-id>"
        source_type   = "image"
        destination_type = "local"
        boot_index    = 0
        delete_on_termination = true
    }

    block_device {
        uuid          = "${huaweicloud_blockstorage_volume_v2.volume_1.id}"
        source_type   = "volume"
        destination_type = "volume"
        boot_index    = 1
        delete_on_termination = true
    }
}

```

» Instance With Multiple Networks

```

resource "huaweicloud_networking_floatingip_v2" "myip" {
    pool = "my_pool"
}

```

```

}

resource "huaweicloud_compute_instance_v2" "multi-net" {
  name           = "multi-net"
  image_id       = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor_id      = "3"
  key_pair       = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"

  network {
    name = "my_first_network"
  }

  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 Personality

```

resource "huaweicloud_compute_instance_v2" "personality" {
  name           = "personality"
  image_id       = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor_id      = "3"
  key_pair       = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"

  personality {
    file    = "/path/to/file/on/instance.txt"
    content = "contents of file"
  }

  network {
    name = "my_network"
  }
}

```

» Instance with Multiple Ephemeral Disks

```
resource "huaweicloud_compute_instance_v2" "multi-eph" {
  name           = "multi_eph"
  image_id       = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor_id      = "3"
  key_pair       = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"

  block_device {
    boot_index          = 0
    delete_on_termination = true
    destination_type    = "local"
    source_type         = "image"
    uuid                = "<image-id>"
  }

  block_device {
    boot_index          = -1
    delete_on_termination = true
    destination_type    = "local"
    source_type         = "blank"
    volume_size         = 1
  }

  block_device {
    boot_index          = -1
    delete_on_termination = true
    destination_type    = "local"
    source_type         = "blank"
    volume_size         = 1
  }
}
```

» Instance with User Data (cloud-init)

```
resource "huaweicloud_compute_instance_v2" "instance_1" {
  name           = "basic"
  image_id       = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor_id      = "3"
  key_pair       = "my_key_pair_name"
  security_groups = ["default"]
  availability_zone = "az"
  user_data      = "#cloud-config\nhostname: instance_1.example.com\nfqdn: instance_1.example.com"
}
```

```

network {
  name = "my_network"
}
}

```

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

» Argument Reference

The following arguments are supported:

- **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.
- **personality** - (Optional) Customize the personality of an instance by defining one or more files and their contents. The personality structure is 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 **uuid** or **port** is provided) The human-readable name of the network. Changing this creates a new server.
- **port** - (Required unless **uuid** 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.

The **personality** block supports:

- **file** - (Required) The absolute path of the destination file.
- **contents** - (Required) The contents of the file. Limited to 255 bytes.

» 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/fix_ip_v4` - The Fixed IPv4 address of the Instance on that network.
- `network/fix_ip_v6` - The Fixed IPv6 address of the Instance on that network.
- `network/mac` - The MAC address of the NIC on that network.
- `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" {
  name           = "terraform-test"
  security_groups = ["default"]

  block_device {
    boot_index          = 0
    delete_on_termination = true
    destination_type    = "local"
    source_type         = "image"
    uuid                = "<image uuid>"
  }

  block_device {
    boot_index          = -1
    delete_on_termination = true
    destination_type    = "local"
    source_type         = "blank"
  }
}
```



```

        volume_size          = 1
    }

    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 its network Port, customize the `connection` information:

```

resource "huaweicloud_networking_port_v2" "port_1" {
    name          = "port_1"
    admin_state_up = "true"

    network_id = "0a1d0a27-cffa-4de3-92c5-9d3fd3f2e74d"

    security_group_ids = [
        "2f02d20a-8dca-49b7-b26f-b6ce9fddaf4f",
        "ca1e5ed7-dae8-4605-987b-fadaeeb30461",
    ]
}

resource "huaweicloud_compute_instance_v2" "instance_1" {
    name = "instance_1"

```

```

network {
  port = "${huaweicloud_networking_port_v2.port_1.id}"
}

connection {
  user      = "root"
  host      = "${huaweicloud_networking_port_v2.port_1.fixed_ip.0.ip_address}"
  private_key = "~/path/to/key"
}

provisioner "remote-exec" {
  inline = [
    "echo terraform executed > /tmp/foo",
  ]
}
}

```

» 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 AAAAB3NzaC1yc2EAAAADAQABAAQDAjpC1hwi0CCmKEWxJ4qzTTsJbKzndLotBCz5F"
}

```

» 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" {
  name          = "my_secgroup"
  description   = "my security group"

  rule {
    from_port    = 22
    to_port      = 22
    ip_protocol   = "tcp"
    cidr         = "0.0.0.0/0"
  }

  rule {
    from_port    = 80
    to_port      = 80
    ip_protocol   = "tcp"
  }
}
```

```

    cidr      = "0.0.0.0/0"
  }
}

```

» 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 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:

```
resource "huaweicloud_compute_instance_v2" "test-server" {  
  name           = "tf-test"  
  image_id       = "ad091b52-742f-469e-8f3c-fd81cadf0743"  
  flavor_id      = "3"  
  key_pair       = "my_key_pair_name"  
  security_groups = ["${huaweicloud_compute_secgroup_v2.secgroup_1.name}"]  
}
```

» Import

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

```
$ terraform import huaweicloud_compute_secgroup_v2.my_secgroup 1bc30ee9-9d5b-4c30-bdd5-7f1e0
```

» 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 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
```

» huaweicloud__compute__volume__attach__v2

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" {
  name          = "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" {
  count = 2
  name  = "${format("vol-%02d", count.index + 1)}"
  size  = 1
}

resource "huaweicloud_compute_instance_v2" "instance_1" {
  name          = "instance_1"
  security_groups = ["default"]
}
```

```

resource "huaweicloud_compute_volume_attach_v2" "attachments" {
  count      = 2
  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.

» 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__dns__recordset__v2

Manages a DNS record set in the HuaweiCloud DNS Service.

» Example Usage

» Automatically detect the correct network

```
resource "huaweicloud_dns_zone_v2" "example_zone" {
  name = "example.com."
  email = "email2@example.com"
  description = "a zone"
  ttl = 6000
  zone_type = "public"
}

resource "huaweicloud_dns_recordset_v2" "rs_example_com" {
  zone_id = "${huaweicloud_dns_zone_v2.example_zone.id}"
  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

```
resource "huaweicloud_dns_zone_v2" "my_public_zone" {
  name = "example.com."
  email = "jdoe@example.com"
  description = "An example zone"
  ttl = 3000
  zone_type = "public"
```

```
}
```

» Create a private DNS zone

```
resource "huaweicloud_dns_zone_v2" "my_private_zone" {  
  name = "1.example.com."  
  email = "jdoe@example.com"  
  description = "An example zone"  
  ttl = 3000  
  zone_type = "private"  
  router = [  
    {  
      router_region = "cn-north-1"  
      router_id = "2c1fe4bd-ebad-44ca-ae9d-e94e63847b75"  
    }  
  ]  
}
```

» 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 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_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"
  enabled        = "true"
}
```

```
resource "huaweicloud_fw_rule_v2" "rule_2" {
  name           = "my-rule-2"
  description    = "drop NTP traffic"
  action         = "deny"
  protocol       = "udp"
  destination_port = "123"
}
```

```

    enabled          = "false"
  }

  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}",
            ]
  }

  resource "huaweicloud_fw_firewall_group_v2" "firewall_group_1" {
    name          = "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.

```
$ terraform import huaweicloud_fw_firewall_group_v2.firewall_group_1 c9e39fb2-ce20-46c8-a96
```

» huaweicloud_fw_policy_v2

Manages a v2 firewall policy 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"
  enabled       = "true"
}

resource "huaweicloud_fw_rule_v2" "rule_2" {
  name           = "my-rule-2"
  description    = "drop NTP traffic"
  action        = "deny"
  protocol       = "udp"
  destination_port = "123"
}
```

```

    enabled          = "false"
  }

  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}",
            ]
  }

```

» 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

```
resource "huaweicloud_fw_rule_v2" "rule_1" {  
  name           = "my_rule"  
  description    = "drop TELNET traffic"  
  action        = "deny"  
  protocol       = "tcp"  
  destination_port = "23"  
  enabled       = "true"  
}
```

» 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_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

» Example Usage

```
resource "huaweicloud_identity_project_v3" "project_1" {
  name = "eu-de_project1"
  description = "This is a test project"
}
```

» Argument Reference

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-e2b959
```

» 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

```
resource "huaweicloud_identity_user_v3" "user_1" {
  name = "user_1"
  description = "A user"
  password = "password123!"
}
```

» Argument Reference

The following arguments are supported:

- **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.

» Attributes Reference

The following attributes are exported:

- `domain_id` - See Argument Reference above.

» Import

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

```
$ terraform import huaweicloud_identity_user_v3.user_1 89c60255-9bd6-460c-822a-e2b959ede9d2
```

» 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

```
resource "huaweicloud_identity_group_v3" "group_1" {
  name = "group_1"
  description = "This is a test group"
}
```

» Argument Reference

The following arguments are supported:

- **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.

» Attributes Reference

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-e2b959ede9
```

» 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.

» Example Usage

```
resource "huaweicloud_identity_group_v3" "group_1" {
  name = "group1"
  description = "This is a test group"
}

resource "huaweicloud_identity_user_v3" "user_1" {
  name = "user1"
  enabled = true
  password = "password12345!"
}
```

```

}

resource "huaweicloud_identity_user_v3" "user_2" {
  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}"
  ]
}

```

» Argument Reference

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

```

» Argument Reference

The following arguments are supported:

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

» Attributes Reference

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_images_image_v2

Manages a V2 Image resource within HuaweiCloud IMS.

» Example Usage

```
resource "huaweicloud_images_image_v2" "rancheros" {
  name      = "RancherOS"
  image_source_url = "https://releases.rancher.com/os/latest/rancheros-openstack.img"
  container_format = "bare"
  disk_format = "qcow2"
  tags = ["foo.bar", "tag.value"]
}
```

» 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. Defaults 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-e2b959ede90
```

» 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__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"
  billing_type = 12
  master_node_num = 2
  core_node_num  = 3
  master_node_size = "c3.4xlarge.2.linux.bigdata"
  core_node_size  = "c3.xlarge.4.linux.bigdata"
  available_zone_id = "ae04cf9d61544df3806a3feeb401b204"
  vpc_id           = "51edfb75-f9f0-4bbc-b4dc-21466b93f60d"
  subnet_id        = "1d7a8646-43ee-455a-a3ab-40da87a1304c"
  cluster_version  = "MRS 1.6.3"
  volume_type      = "SATA"
  volume_size      = 100
  safe_mode        = 0
  cluster_type     = 0
  node_public_cert_name = "KeyPair-ci"
  cluster_admin_secret = ""
  component_list {
    component_name = "Hadoop"
  }
  component_list {
    component_name = "Spark"
  }
}
```

```

    }
    component_list {
        component_name = "Hive"
    }
}

```

» Argument Reference

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, East China AZ1 (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 management 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. 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 max-

imum 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.
- `externalIp` - Internal 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 shut-down 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"
}
```

» Argument Reference

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 API currently) 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__networking__floatingip__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" {  
  pool = "admin_external_net"  
}
```

» 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** - (Required) The name of the pool from which to obtain the floating IP. 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.

```
$ terraform import huaweicloud_networking_floatingip_v2.floatip_1 2c7f39f3-702b-48d1-940c-b5
```

» 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-48d1-94
```

» huaweicloud_networking_network_v2

Manages a V2 Neutron network 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"
  network_id    = "${huaweicloud_networking_network_v2.network_1.id}"
  cidr          = "192.168.199.0/24"
  ip_version    = 4
}

resource "huaweicloud_compute_secgroup_v2" "secgroup_1" {
  name          = "secgroup_1"
  description   = "a security group"

  rule {
    from_port = 22
    to_port   = 22
    ip_protocol = "tcp"
    cidr      = "0.0.0.0/0"
  }
}

resource "huaweicloud_networking_port_v2" "port_1" {
  name          = "port_1"
  network_id    = "${huaweicloud_networking_network_v2.network_1.id}"
  admin_state_up = "true"
  security_group_ids = ["${huaweicloud_compute_secgroup_v2.secgroup_1.id}"]

  fixed_ip {
    "subnet_id" = "${huaweicloud_networking_subnet_v2.subnet_1.id}"
  }
}
```

```

    "ip_address" = "192.168.199.10"
  }
}

resource "huaweicloud_compute_instance_v2" "instance_1" {
  name          = "instance_1"
  security_groups = ["${huaweicloud_compute_secgroup_v2.secgroup_1.name}"]

  network {
    port = "${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 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 capabilities 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.
- **availability_zone_hints** - (Optional) An availability zone is used to make network resources highly available. Used for resources with high availability so that they are scheduled on different availability zones. Changing this creates a new network.

The **segments** block supports:

- **physical_network** - The physical 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.
- `availability_zone_hints` - 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-152c
```

» huaweicloud_networking_port_v2

Manages a V2 port resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_networking_network_v2" "network_1" {
  name          = "network_1"
  admin_state_up = "true"
}

resource "huaweicloud_networking_port_v2" "port_1" {
  name          = "port_1"
  network_id    = "${huaweicloud_networking_network_v2.network_1.id}"
  admin_state_up = "true"
}
```

» 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-1c33-4cc1-9c31-0cd729c438
```

» 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

```
resource "huaweicloud_networking_network_v2" "network_1" {
  name          = "tf_test_network"
  admin_state_up = "true"
}

resource "huaweicloud_networking_subnet_v2" "subnet_1" {
  network_id = "${huaweicloud_networking_network_v2.network_1.id}"
  cidr       = "192.168.199.0/24"
  ip_version = 4
}

resource "huaweicloud_networking_router_v2" "router_1" {
  name          = "my_router"
  external_network_id = "f67f0d72-0ddf-11e4-9d95-e1f29f417e2f"
}

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}"
}
```

» 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>
```

» huaweicloud_networking_router_route_v2

Creates a routing entry on a HuaweiCloud V2 router.

» Example Usage

```
resource "huaweicloud_networking_router_v2" "router_1" {
  name          = "router_1"
  admin_state_up = "true"
}

resource "huaweicloud_networking_network_v2" "network_1" {
  name          = "network_1"
  admin_state_up = "true"
}

resource "huaweicloud_networking_subnet_v2" "subnet_1" {
  network_id = "${huaweicloud_networking_network_v2.network_1.id}"
}
```

```

    cidr          = "192.168.199.0/24"
    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" {
    depends_on      = ["huaweicloud_networking_router_interface_v2.int_1"]
    router_id       = "${huaweicloud_networking_router_v2.router_1.id}"
    destination_cidr = "10.0.1.0/24"
    next_hop        = "192.168.199.254"
}

```

» 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 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-
```

» huaweicloud_networking_router_v2

Manages a V2 router resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_networking_router_v2" "router_1" {  
  name           = "my_router"  
  admin_state_up = true  
  external_network_id = "f67f0d72-0ddf-11e4-9d95-e1f29f417e2f"  
}
```

» 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.
- **availability_zone_hints** - (Optional) An availability zone is used to make network resources highly available. Used for resources with high availability so that they are scheduled on different availability zones. Changing this creates a new router.

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.
- **availability_zone_hints** - 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-96b7-13d1ee7
```

» huaweicloud_networking_subnet_v2

Manages a V2 Neutron subnet resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_networking_network_v2" "network_1" {
  name          = "tf_test_network"
  admin_state_up = "true"
}

resource "huaweicloud_networking_subnet_v2" "subnet_1" {
  network_id = "${huaweicloud_networking_network_v2.network_1.id}"
  cidr       = "192.168.199.0/24"
}
```

» 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 da4faf16-5546-41e4-8330-4d00021
```

» 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

```
resource "huaweicloud_networking_secgroup_v2" "secgroup_1" {
  name          = "secgroup_1"
  description   = "My neutron security group"
}
```

» 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:

```
resource "huaweicloud_networking_secgroup_rule_v2" "secgroup_rule_v4" {
  direction = "egress"
  ethertype = "IPv4"
  security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
}

resource "huaweicloud_networking_secgroup_rule_v2" "secgroup_rule_v6" {
  direction = "egress"
  ethertype = "IPv6"
  security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup.id}"
}
```

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
```

» 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.

» Example Usage

```
resource "huaweicloud_networking_secgroup_v2" "secgroup_1" {
  name          = "secgroup_1"
  description   = "My neutron security group"
}

resource "huaweicloud_networking_secgroup_rule_v2" "secgroup_rule_1" {
  direction      = "ingress"
  ethertype      = "IPv4"
  protocol       = "tcp"
  port_range_min = 22
  port_range_max = 22
  remote_ip_prefix = "0.0.0.0/0"
  security_group_id = "${huaweicloud_networking_secgroup_v2.secgroup_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 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.

```
$ terraform import huaweicloud_networking_secgroup_rule_v2.secgroup_rule_1 aeb68ee3-6e9d-423
```

» 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 CREATING, 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

The following arguments are supported:

- **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

The following arguments are supported:

- **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.

» Attributes Reference

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 acceptor'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 acceptor'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

The following arguments are supported:

- **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 acceptor tenant. Changing this creates a new VPC peering connection.

- `peer_tenant_id` (Optional) - Specified the Tenant Id of the acceptor tenant. Changing this creates a new VPC peering connection.

» Attributes Reference

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 acceptor's side of a VPC Peering Connection.

When a cross-tenant (requester's tenant differs from the acceptor's tenant) VPC Peering Connection is created, a VPC Peering Connection resource is automatically created in the acceptor's account. The requester can use the `huaweicloud_vpc_peering_connection_v2` resource to manage its side of the connection and the acceptor 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}"
        region      = "${var.peer_region}"
        tenant_id   = "${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}"
    }

    # Acceptor'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 acceptor.
- **accept** (Optional)- Whether or not to accept the peering request. Defaults to **false**.

» Removing `huaweicloud_vpc_peering_connection_accepter_v2` from your configuration

huaweicloud allows a cross-tenant VPC Peering Connection to be deleted from either the requester's or acceptor'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 acceptor tenant.
- **peer_tenant_id** - The Tenant Id of the acceptor tenant.

» `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

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 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 Loadbalancer'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 Loadbalancer.
- **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).

» Attributes Reference

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.

» **Example Usage**

```
resource "huaweicloud_lb_listener_v2" "listener_1" {
  protocol      = "HTTP"
  protocol_port = 8080
  loadbalancer_id = "d9415786-5f1a-428b-b35f-2f1523e146d2"
}
```

» **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 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

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 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.
- **lb_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

```
resource "huaweicloud_lb_member_v2" "member_1" {
  address      = "192.168.199.23"
  protocol_port = 8080
}
```

» 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

```
resource "huaweicloud_lb_monitor_v2" "monitor_1" {
  pool_id      = "${huaweicloud_lb_pool_v2.pool_1.id}"
  type         = "PING"
  delay        = 20
  timeout      = 10
  max_retries  = 5
}
```

» 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 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).

» Attributes Reference

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.

» Example Usage

```
resource "huaweicloud_lb_loadbalancer_v2" "loadbalancer_1" {
  name = "loadbalancer_1"
  vip_subnet_id = "SUBNET_ID"
}

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"
  loadbalancer_id = "${huaweicloud_lb_loadbalancer_v2.loadbalancer_1.id}"
}

resource "huaweicloud_lb_l7policy_v2" "l7policy_1" {
  name = "test"
  action = "REDIRECT_TO_POOL"
  description = "test l7 policy"
  position = 1
  listener_id = "${huaweicloud_lb_listener_v2.listener_1.id}"
  redirect_pool_id = "${huaweicloud_lb_pool_v2.pool_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 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 REDIRECT_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 REDIRECT_TO_LISTENER.
- **admin_state_up** - (Optional) The administrative state of the L7 Policy. This value can only be true (UP).

» Attributes Reference

The following attributes are exported:

- **id** - The unique ID for the L7 Policy.
- **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_l7policy_v2.l7policy_1 8a7a79c2-cf17-4e65-b2ae-ddc8bfcf6c7
```

» huaweicloud_lb_l7rule_v2

Manages a V2 L7 Rule resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_lb_loadbalancer_v2" "loadbalancer_1" {
  name = "loadbalancer_1"
  vip_subnet_id = "SUBNET_ID"
}

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"
  loadbalancer_id = "${huaweicloud_lb_loadbalancer_v2.loadbalancer_1.id}"
}

resource "huaweicloud_lb_l7policy_v2" "l7policy_1" {
  name = "test"
  action = "REDIRECT_TO_URL"
  description = "test description"
  position = 1
  listener_id = "${huaweicloud_lb_listener_v2.listener_1.id}"
  redirect_url = "http://www.example.com"
}
```

```

resource "huaweicloud_lb_l7rule_v2" "l7rule_1" {
  l7policy_id = "${huaweicloud_lb_l7policy_v2.l7policy_1.id}"
  type        = "PATH"
  compare_type = "EQUAL_TO"
  value       = "/api"
}

```

» 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 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**
- **l7policy_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.
- `l7policy_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_l7rule_v2.l7rule_1 e0bd694a-abbe-450e-b329-0931fd1cc5eb/40
```

» 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
}
```

» Argument Reference

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__nat__gateway__v2

Manages a V2 nat gateway resource within HuaweiCloud Nat

» Example Usage

```
resource "huaweicloud_nat_gateway_v2" "nat_1" {
  name      = "Terraform"
  description = "test for terraform2"
  spec      = "3"
  router_id = "2c1fe4bd-ebad-44ca-ae9d-e94e63847b75"
  internal_network_id = "dc8632e2-d9ff-41b1-aa0c-d455557314a0"
}
```

» 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 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 connects 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_elb_loadbalancer

Manages an elastic loadbalancer resource within huawei cloud.

» Example Usage

```
resource "huaweicloud_elb_loadbalancer" "elb" {
  name = "elb"
  type = "External"
  description = "test elb"
  vpc_id = "e346dc4a-d9a6-46f4-90df-10153626076e"
  admin_state_up = 1
  bandwidth = 5
}
```

» Argument Reference

The following arguments are supported:

- **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" {
  name = "elb"
  type = "External"
  description = "test elb"
  vpc_id = "e346dc4a-d9a6-46f4-90df-10153626076e"
  admin_state_up = 1
  bandwidth = 5
```

```

}

resource "huaweicloud_elb_listener" "listener" {
  name = "test-elb-listener"
  description = "great listener"
  protocol = "TCP"
  backend_protocol = "TCP"
  port = 12345
  backend_port = 8080
  lb_algorithm = "roundrobin"
  loadbalancer_id = "${huaweicloud_elb_loadbalancer.elb.id}"
  timeouts {
    create = "5m"
    update = "5m"
    delete = "5m"
  }
}

```

» Argument Reference

The following arguments are supported:

- **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.
- **lb_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.

» Attributes Reference

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, PENDING_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.

» Example Usage

```
resource "huaweicloud_elb_loadbalancer" "elb" {
  name = "elb"
  type = "External"
  description = "test elb"
  vpc_id = "e346dc4a-d9a6-46f4-90df-10153626076e"
  admin_state_up = 1
  bandwidth = 5
}

resource "huaweicloud_elb_listener" "listener" {
  name = "test-elb-listener"
  description = "great listener"
  protocol = "TCP"
  backend_protocol = "TCP"
  port = 12345
  backend_port = 8080
  lb_algorithm = "roundrobin"
  loadbalancer_id = "${huaweicloud_elb_loadbalancer.elb.id}"
  timeouts {
    create = "5m"
    update = "5m"
    delete = "5m"
  }
}

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

» Argument Reference

The following arguments are supported:

- `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.

» Attributes Reference

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.

» Example Usage

```
resource "huaweicloud_elb_loadbalancer" "elb" {
  name = "elb"
  type = "External"
  description = "test elb"
  vpc_id = "e346dc4a-d9a6-46f4-90df-10153626076e"
  admin_state_up = 1
  bandwidth = 5
}

resource "huaweicloud_elb_listener" "listener" {
  name = "test-elb-listener"
  description = "great listener"
  protocol = "TCP"
  backend_protocol = "TCP"
  port = 12345
  backend_port = 8080
  lb_algorithm = "roundrobin"
  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"
}
```

» Argument Reference

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, PENDING, 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_s3_bucket

Provides a S3 bucket resource.

» Example Usage

» Private Bucket w/ Tags

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

» Static Website Hosting

```
resource "huaweicloud_s3_bucket" "b" {
  bucket = "s3-website-test.hashicorp.com"
  acl    = "public-read"
  policy = "${file("policy.json")}"
}
```

```

website {
  index_document = "index.html"
  error_document = "error.html"

  routing_rules = <<EOF
[{"
  "Condition": {
    "KeyPrefixEquals": "docs/"
  },
  "Redirect": {
    "ReplaceKeyPrefixWith": "documents/"
  }
}]
EOF
}
}

```

» Using CORS

```

resource "huaweicloud_s3_bucket" "b" {
  bucket = "s3-website-test.hashicorp.com"
  acl    = "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"
  acl    = "log-delivery-write"
}

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"
  acl    = "private"

  lifecycle_rule {
    id      = "log"
    enabled = true

    prefix = "log/"

    expiration {
      days = 90
    }
  }

  lifecycle_rule {
    id      = "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
  }
}

```

» Argument Reference

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".
- **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.
- **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.
- **website** - (Optional) A website object (documented below).
- **cors_rule** - (Optional) A rule of Cross-Origin Resource Sharing (documented 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.

» Attributes Reference

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_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",
  "Statement": [
    {
      "Sid": "IPAllow",
      "Effect": "Deny",
      "Principal": "*",
      "Action": "s3:*",
      "Resource": "arn:aws:s3:::my_tf_test_bucket/*",
      "Condition": {
        "IpAddress": {"aws:SourceIp": "8.8.8.8/32"}
      }
    }
  ]
}
POLICY
}
```

» Argument Reference

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.

» huaweicloud_smn_subscription_v2

Manages a V2 subscription resource within HuaweiCloud.

» Example Usage

```
resource "huaweicloud_smn_topic_v2" "topic_1" {
  name          = "topic_1"
  display_name  = "The display name of topic_1"
}

resource "huaweicloud_smn_subscription_v2" "subscription_1" {
  topic_urn      = "${huaweicloud_smn_topic_v2.topic_1.id}"
  endpoint       = "mailto:mailtest@gmail.com"
  protocol       = "email"
  remark        = "O&M"
}

resource "huaweicloud_smn_subscription_v2" "subscription_2" {
  topic_urn      = "${huaweicloud_smn_topic_v2.topic_1.id}"
  endpoint       = "13600000000"
  protocol       = "sms"
  remark        = "O&M"
}
```

» Argument Reference

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

```
resource "huaweicloud_smn_topic_v2" "topic_1" {
  name           = "topic_1"
  display_name   = "The display name of topic_1"
}
```

» 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_rds_instance_v1`

Manages rds instance resource within HuaweiCloud

» Example Usage: Creating a PostgreSQL RDS instance

```
data "huaweicloud_rds_flavors_v1" "flavor" {
  region = "eu-de"
  datastore_name = "PostgreSQL"
  datastore_version = "9.5.5"
  speccode = "rds.pg.s1.large"
}

resource "huaweicloud_compute_secgroup_v2" "secgrp_rds" {
  name          = "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
}
region = "eu-de"
availabilityzone = "eu-de-01"
vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
nics {
  subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
}
securitygroup {
  id = "${huaweicloud_compute_secgroup_v2.secgrp_rds.id}"
}
dbport = "8635"
backupstrategy = {
  starttime = "04:00:00"
  keepdays = 4
}
dbbrtpd = "Huangwei!120521"
ha = {
  enable = true
  replicationmode = "async"
}
depends_on = ["huaweicloud_compute_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_compute_secgroup_v2" "secgrp_rds" {
  name          = "secgrp-rds-instance"
  description = "Rds Security Group"
}

resource "huaweicloud_rds_instance_v1" "instance" {
  name = "rds-instance"
  datastore {
    type = "SQLServer"
    version = "2014 SP2 SE"
  }
}

```

```

}
flavorref = "${data.huaweicloud_rds_flavors_v1.flavor.id}"
volume {
    type = "COMMON"
    size = 200
}
region = "eu-de"
availabilityzone = "eu-de-01"
vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
nics {
    subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
}
securitygroup {
    id = "${huaweicloud_compute_secgroup_v2.secgrp_rds.id}"
}
dbport = "8635"
backupstrategy = {
    starttime = "04:00:00"
    keepdays = 4
}
dbbrtpd = "Huangwei!120521"
depends_on = ["huaweicloud_compute_secgroup_v2.secgrp_rds"]
}

```

» Example Usage: Creating a MySQL RDS instance

```

data "huaweicloud_rds_flavors_v1" "flavor" {
    region = "eu-de"
    datastore_name = "MySQL"
    datastore_version = "5.6.33"
    speccode = "rds.mysql.s1.medium"
}

resource "huaweicloud_compute_secgroup_v2" "secgrp_rds" {
    name          = "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
}
region = "eu-de"
availabilityzone = "eu-de-01"
vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
nics {
  subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
}
securitygroup {
  id = "${huaweicloud_compute_secgroup_v2.secgrp_rds.id}"
}
dbport = "8635"
backupstrategy = {
  starttime = "04:00:00"
  keepdays = 4
}
dbbrtpd = "Huangwei!120521"
ha = {
  enable = true
  replicationmode = "async"
}
depends_on = ["huaweicloud_compute_secgroup_v2.secgrp_rds"]
}

```

» Argument Reference

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. NOTICE: 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 SP2 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 **securitygroup** block supports:

- **id** - (Required) Specifies the ID obtained from the securitygroup.

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.

» Attributes Reference

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.
- **dbtrtpd** - 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-mm-dd Thh:mm:ssZ.

- **updated** - Indicates the update time in the following format: yyyy-mm-ddThh: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_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"
  }
}
```

» 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** - (Required) The bandwidth name, which is a string of 1 to 64 characters that contain letters, digits, underscores (_), and hyphens (-).
- **size** - (Required) The bandwidth size. The value ranges from 1 to 300 Mbit/s.
- **charge_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/charge_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__sfs__file__system__v2

Provides an Shared File System (SFS) resource.

» Example Usage

```
variable "share_name" { }

variable "share_description" { }

variable "vpc_id" { }

resource "huaweicloud_sfs_file_system_v2" "sfs1" {
  size = 50
  name = "${var.share_name}"
  access_to = "${var.vpc_id}"
  access_level = "rw"
  description = "${var.share_description}"
  metadata = {
    "type"="nfs"
  }
}
```

» 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
```

» 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
    {
      "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
  }

```

» Argument Reference

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_iam_agency_v3

Manages an agency resource within huawei cloud.

» Example Usage

```
resource "huaweicloud_iam_agency_v3" "agency" {
  name = "test_agency"
  description = "test agency"
  delegated_domain_name = "***"
  project_role = [
    {
      project = "cn-north-1"
      roles = [
        "Tenant Administrator",
      ]
    }
  ]
  domain_roles = [
    "Anti-DDoS Administrator",
  ]
}
```

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 permissionis 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_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

The following arguments are supported:

- **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]){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_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 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"
        disk_type = "SYS"}
    ]
    key_name = "${var.keyname}"
    user_data = "${file("userdata.txt")}"
    metadata = {
```



```

        some_key = "some_value"
    }
}

```

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

» 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 disk 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.

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 = 0
  max_instance_number = 10
  networks = [{id = "ad091b52-742f-469e-8f3c-fd81cadf0743"}]
  security_groups = [{id = "45e4c6de-6bf0-4843-8953-2babde3d4810"}]
  vpc_id = "1d8f7e7c-fe04-4cf5-85ac-08b478c290e9"
  delete_publicip = true
  delete_instances = "yes"
}
```

» Autoscaling Group Only Remove Members When Scaling Down

```
resource "huaweicloud_as_group_v1" "my_as_group_only_remove_members" {
  scaling_group_name = "my_as_group_only_remove_members"
  scaling_configuration_id = "37e310f5-db9d-446e-9135-c625f9c2bbfc"
  desire_instance_number = 2
  min_instance_number = 0
  max_instance_number = 10
  networks = [{id = "ad091b52-742f-469e-8f3c-fd81cadf0743"}]
  security_groups = [{id = "45e4c6de-6bf0-4843-8953-2babde3d4810"}]
  vpc_id = "1d8f7e7c-fe04-4cf5-85ac-08b478c290e9"
  delete_publicip = true
  delete_instances = "no"
}
```

» 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
max_instance_number = 10
networks = [{id = "ad091b52-742f-469e-8f3c-fd81cadf0743"}]
security_groups = [{id = "45e4c6de-6bf0-4843-8953-2babde3d4810"}]
vpc_id = "1d8f7e7c-fe04-4cf5-85ac-08b478c290e9"
lb_listener_id = "${huaweicloud_elb_listener.my_listener.id}"
delete_publicip = true
delete_instances = "yes"
}

resource "huaweicloud_elb_listener" "my_listener" {
  name = "my_listener"
  description = "my test listener"
  protocol = "TCP"
  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"
  }
}

```

» Argument Reference

The following arguments are supported:

- **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 900 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 (.).
- **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.

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **scaling_group_name** - See Argument Reference above.
- **desired_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"
  scaling_group_id = "4579f2f5-cbe8-425a-8f32-53dcb9d9053a"
  cool_down_time = 900
  scaling_policy_type = "RECURRENCE"
  scaling_policy_action = {
    operation = "ADD"
    instance_number = 1
  }
}
```

```

    scheduled_policy = {
      launch_time = "07:00"
      recurrence_type = "Daily"
      start_time = "2017-11-30T12:00Z"
      end_time = "2017-12-30T12:00Z"
    }
  }
}

```

» 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

The following arguments are supported:

- **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_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"
}
```

» Argument Reference

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 7056d636-ac60-4663-8a6c-82
```

» 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 = "OS::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;BYHOU"
  }
}
```

» Argument Reference

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-ac60-4663-8a
```

» 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" {
  bucket_name      = "${var.bucket_name}"
  file_prefix_name = "y08Q"
  is_support_smn   = true
  topic_id         = "${var.topic_id}"
  is_send_all_key_operation = false
  operations       = ["login"]
  need_notify_user_list = ["user1"]
}
```

» Argument Reference

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]){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_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_l2"
  description= "Create cluster"
}
```

» Argument Reference

The following arguments are supported:

- **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_l2** - 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.

» 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.

» 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

The following arguments are supported:

- **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.
- **node_count** - (Required) The number of nodes in batch creation.
- **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.
- **key_pair** - (Required) Key pair name when logging in to select the key pair 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` - (Required) Elastic IP type.
- `bandwidth_charge_mode` - (Optional) Bandwidth billing type. Changing this parameter will create a new resource.
- `sharetype` - (Required) Bandwidth sharing type. Changing this parameter will create a new resource.
- `bandwidth_size` - (Required) Bandwidth size. Changing this parameter will create a new resource.
- `extend_param_charging_mode` - (Optional) Node charging mode, 0 is on-demand 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.

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.

» huaweicloud_vbs_backup_policy_v2

Provides an VBS Backup Policy resource.

» Example Usage

```
resource "huaweicloud_vbs_backup_policy_v2" "vbs" {
  name = "policy_002"
  start_time = "12:00"
  status = "ON"
  retain_first_backup = "N"
  retention_num = 2
  frequency = 1
  tags = [
    {
      key = "k1"
      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 (_).

» Attributes Reference

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-93dfc361b320
```

» 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

The following arguments are supported:

- **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
```

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

```

        depends_on = ["data.huaweicloud_dcs_product_v1.product_1", "huaweicloud_networking
    }

```

» Argument Reference

The following arguments are supported:

- **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. `dc.single_node`: indicates a DCS instance in single-node mode. `dc.master_standby`: indicates a DCS instance in master/standby mode. `dc.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_dws_cluster**

cluster management

» Example Usage

» Dws Cluster Example

```
resource "huaweicloud_networking_secgroup_v2" "secgroup" {
  name = "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 }}"
  name = "terraform_dws_cluster_test"
  user_name = "test_cluster_admin"
  user_pwd = "cluster123@!"

  timeouts {
    create = "30m"
    delete = "30m"
  }
}
```

» Argument Reference

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`.

» Attributes Reference

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 REDISTRIBUTING REDISTRIBUTION-FAILURE UNBALANCED UNBALANCED | READONLY DEGRADED DEGRADED | READONLY DEGRADED | UNBALANCED UNBALANCED | REDISTRIBUTING UNBALANCED | REDISTRIBUTION-FAILURE READONLY | REDISTRIBUTION-FAILURE UNBALANCED | READONLY | REDISTRIBUTION-FAILURE DEGRADED | REDISTRIBUTION-FAILURE DEGRADED | UNBALANCED | REDISTRIBUTION-FAILURE DEGRADED | UNBALANCED | READONLY | REDISTRIBUTION-FAILURE DEGRADED | UNBALANCED | READONLY
- **task_status** - Cluster management task. The value can be one of the following: RESTORING SNAPSHOTTING GROWING 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__mls__instance

mls instance

» Example Usage

» Mls Instance Example

```
resource "huaweicloud_mrs_cluster_v1" "cluster1" {
  cluster_name = "mrs-cluster-acc"
  region = "en-OS_REGION_NAME"
  billing_type = 12
  master_node_num = 2
  core_node_num = 3
  master_node_size = "s1.4xlarge.linux.mrs"
  core_node_size = "s1.xlarge.linux.mrs"
  available_zone_id = "{{ availability_zone }}"
  vpc_id = "{{ vpc_id }}"
  subnet_id = "{{ network_id }}"
  cluster_version = "MRS 1.3.0"
  volume_type = "SATA"
  volume_size = 100
  safe_mode = 0
  cluster_type = 0
  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"
```

```

network {
  vpc_id = "${ vpc_id }"
  network_id = "${ network_id }"
  available_zone = "${ availability_zone }"
  public_ip {
    bind_type = "not_use"
  }
}

mrs_cluster {
  id = "${huaweicloud_mrs_cluster_v1.cluster1.id}"
}

timeouts {
  create = "60m"
}
}

```

» Argument Reference

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 }}
```