# » opentelekomcloud\_identity\_group\_v3

Use this data source to get the ID of an OpentelekomCloud group.

Note: This usually requires admin privileges.

### » Example Usage

```
data "opentelekomcloud_identity_group_v3" "admins" {
  name = "admins"
}
```

## » Argument Reference

- name The name of the group.
- domain\_id (Optional) The domain the group belongs to.

#### » Attributes Reference

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

- name See Argument Reference above.
- domain\_id See Argument Reference above.

# » opentelekomcloud\_identity\_project\_v3

Use this data source to get the ID of an OpentelekomCloud project.

# » Example Usage

```
data "opentelekomcloud_identity_project_v3" "project_1" {
  name = "demo"
}
```

#### » Argument Reference

The following arguments are supported:

• domain\_id - (Optional) The domain this project belongs to.

- enabled (Optional) Whether the project is enabled or disabled. Valid values are true and false.
- is\_domain (Optional) Whether this project is a domain. Valid values are true and false.
- name (Optional) The name of the project.
- parent\_id (Optional) The parent of this project.

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

- description The description of the project.
- domain\_id See Argument Reference above.
- enabled See Argument Reference above.
- is\_domain See Argument Reference above.
- name See Argument Reference above.
- parent\_id See Argument Reference above.

# » opentelekomcloud\_identity\_role\_v3

Use this data source to get the ID of an OpentelekomCloud 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:

Policy Name
Tenant Guest
TMS Administrator
CCE Administrator
DCS Administrator
DIS Administrator
VPC Viewer
RDS Administrator
Full Access
EVS Viewer
Agent Operator
DMS Administrator
CES Administrator
RTS Administrator
VPC Admin

Role Name	Policy Name
dns_adm	DNS Administrator
$server\_adm$	Server Administrator
$sdrs\_adm$	SDRS Administrator
$system\_all\_0$	ECS Admin
$wks\_adm$	Workspace Administrator
$te\_admin$	Tenant Administrator
$sfs\_adm$	SFS Administrator
$vpc\_netadm$	VPC Administrator
$css\_adm$	CSS Administrator
$as\_adm$	AutoScaling Administrator
$csbs\_adm$	CSBS Administrator
$secu\_admin$	Security Administrator
$system\_all\_2$	ECS Viewer
$dws\_adm$	DWS Administrator
$mobs\_adm$	MaaS OBS Administrator
$vbs\_adm$	VBS Administrator
$ddos\_adm$	Anti-DDoS Administrator
$system\_all\_4$	EVS Admin
$system\_all\_1$	ECS User
$dws\_db\_acc$	DWS Database Access
$kms\_adm$	KMS Administrator
$mrs\_adm$	MRS Administrator
$nat\_adm$	NAT Gateway Administrator
$dds\_adm$	DDS Administrator
$ims\_adm$	IMS Administrator
$smn\_adm$	SMN Administrator
plas_adm	Config Plas Connector
elb_adm	ELB Administrator

```
data "opentelekomcloud_identity_role_v3" "auth_admin" {
  name = "secu_admin"
}
```

- $\bullet\,$  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.

# » opentelekomcloud\_identity\_user\_v3

Use this data source to get the ID of an OpentelekomCloud user.

## » Example Usage

```
data "opentelekomcloud_identity_user_v3" "user_1" {
  name = "user_1"
}
```

# » Argument Reference

The following arguments are supported:

- 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.
- idp\_id (Optional) The identity provider ID of the user.
- name (Optional) The name of the user.
- password\_expires\_at (Optional) Query for expired passwords. See the OpentelekomCloud API docs for more information on the query format.

#### » Attributes Reference

The following attributes are exported:

- default\_project\_id See Argument Reference above.
- domain\_id See Argument Reference above.
- enabled See Argument Reference above.
- idp\_id See Argument Reference above.
- name See Argument Reference above.
- password\_expires\_at See Argument Reference above.

# > opentelekomcloud\_images\_image\_v2

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

#### » Example Usage

```
data "opentelekomcloud_images_image_v2" "ubuntu" {
  name = "Ubuntu 16.04"
  most_recent = true

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

### » Argument Reference

- 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.openstack.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.

# » opentelekomcloud networking network v2

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

## » Example Usage

```
data "opentelekomcloud_networking_network_v2" "network" {
  name = "tf_test_network"
}
```

#### » Argument Reference

- network id (Optional) The ID of the network.
- name (Optional) The name of the network.
- matching\_subnet\_cidr (Optional) The CIDR of a subnet within the network.
- tenant\_id (Optional) The owner of the network.

#### » Attributes Reference

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

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

# » opentelekomcloud\_networking\_secgroup\_v2

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

# » Example Usage

```
data "opentelekomcloud_networking_secgroup_v2" "secgroup" {
  name = "tf_test_secgroup"
}
```

## » Argument Reference

- 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.

# » opentelekomcloud\_kms\_key\_v1

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

```
data "opentelekomcloud_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"
origin = "kms"
}
```

- 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 OpenTelekomCloud 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.
- origin Origin of a key. such as: kms. 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.
- origin 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.

# $ightsymbol{"}$ opentelekomcloud\_kms\_data\_key\_v1

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

## » Example Usage

### » Argument Reference

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

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.

# » opentelekomcloud\_rds\_flavors\_v1

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

#### » Example Usage

```
data "opentelekomcloud_rds_flavors_v1" "flavor" {
    datastore_name = "PostgreSQL"
    datastore_version = "9.5.5"
    speccode = "rds.pg.s1.medium"
}
```

## » Argument Reference

- 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	rds.pg.s1.xlarge rds.pg.m1.2xlarge rds.pg.c2.xlarge rds.pg.s1.medium r
	9.6.3	
	9.6.5	
MySQL	5.6.33	30 34 35
•	5.6.30	
	5.6.34	
	5.6.35	
	5.6.36	
5.7.17 5.7.20		
	5.7.20	

datastore_name	$data store\_version$	speccode
SQLServer	$2014~\mathrm{SP2}~\mathrm{SE}$	rds.mssql.s1.xlarge rds.mssql.m1.2xlarge rds.mssql.c2.xlarge rds.mssql

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

- 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.

# » opentelekomcloud\_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 "opentelekomcloud_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

#### ## 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]()
- \* `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
- modulated in map of modulated boolets with one objects in be
- \* `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-
- \* `version\_id` The latest version ID of the object returned.
- st `website\_redirect\_location` If the bucket is configured as a website, redirects request:
- \* `tags` A mapping of tags assigned to the object.

# » opentelekomcloud\_vpc\_v1

opentelekomcloud\_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 "opentelekomcloud_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.

- 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.

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.

# » Data Source: opentelekomcloud\_vpc\_subnet\_v1

 ${\tt opentelekomcloud\_vpc\_subnet\_v1} \ \ {\tt provides} \ \ {\tt details} \ \ {\tt about} \ \ {\tt a specific} \ \ {\tt VPC} \ \ {\tt subnet}$ 

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

```
data "opentelekomcloud_vpc_subnet_v1" "subnet_v1" {
   id = "${var.subnet_id}"
}

output "subnet_vpc_id" {
   value = "${data.opentelekomcloud_vpc_subnet_v1.subnet_v1.vpc_id}"
}
```

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

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

#### » Attributes Reference

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

- dns\_list The IP address list of DNS servers on the subnet.
- dhcp\_enable DHCP function for the subnet.
- subnet\_id Specifies the subnet (Native OpenStack API) ID.

# » Data Source: opentelekomcloud\_vpc\_subnet\_ids\_v1

opentelekomcloud\_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

```
data "opentelekomcloud_vpc_subnet_ids_v1" "subnet_ids" {
   vpc_id = "${var.vpc_id}"
}

data "opentelekomcloud_vpc_subnet_v1" "subnet" {
   count = "${length(data.opentelekomcloud_vpc_subnet_ids_v1.subnet_ids.ids)}"
   id = "${data.opentelekomcloud_vpc_subnet_ids_v1.subnet_ids.ids[count.index]}"
```

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

# » Argument Reference

}

output "subnet\_cidr\_blocks" {

The following arguments are supported:

• vpc\_id (Required) - Specifies the VPC ID used as the query filter.

value = "\${data.opentelekomcloud\_vpc\_subnet\_v1.subnet.\*.cidr}"

#### » 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: opentelekomcloud\_vpc\_peering\_connection\_v2

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

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

- id (Optional) The ID of the specific VPC Peering Connection to retrieve.
- status (Optional) The status of the specific VPC Peering Connection to retrieve.
- vpc\_id (Optional) The ID of the requester VPC of the specific VPC Peering Connection to retrieve.
- peer\_vpc\_id (Optional) The ID of the accepter/peer VPC of the specific VPC Peering Connection to retrieve.
- peer\_tenant\_id (Optional) The Tenant ID of the accepter/peer VPC of the specific VPC Peering Connection to retrieve.
- name (Optional) The name of the specific VPC Peering Connection to retrieve.

#### » Attributes Reference

All of the argument attributes are exported as result attributes.

# » Data Source: opentelekomcloud\_vpc\_route\_v2

opentelekomcloud\_vpc\_route\_v2 provides details about a specific VPC route.

```
variable "route_id" { }
data "opentelekomcloud_vpc_route_v2" "vpc_route" {
```

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

resource "opentelekomcloud_vpc_subnet_v1" "subnet_v1" {
   name = "test-subnet"
   cidr = "192.168.0.0/24"
   gateway_ip = "192.168.0.1"
   vpc_id = "${data.opentelekomcloud_vpc_route_v2.vpc_route.vpc_id}"
}
```

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

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

#### » Attribute Reference

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

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

# $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

opentelekomcloud\_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.

```
variable "vpc_id" { }
data "opentelekomcloud_vpc_route_ids_v2" "example" {
```

```
vpc_id = "${var.vpc_id}"
}

data "opentelekomcloud_vpc_route_v2" "vpc_route" {
  count = "${length(data.opentelekomcloud_vpc_route_ids_v2.example.ids)}"
  id = "${data.opentelekomcloud_vpc_route_ids_v2.example.ids[count.index]}"
}

output "route_nexthop" {
  value = ["${data.opentelekomcloud_vpc_route_v2.vpc_route.*.nexthop}"]
}
```

• vpc\_id (Required) - The VPC ID that you want to filter from.

#### » Attributes Reference

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

# » Data Source: opentelekomcloud\_rts\_stack\_v1

The OpenTelekomCloud RTS Stack data source allows access to stack outputs and other useful data including the template body.

### » Example Usage

```
variable "stack_name" { }
data "opentelekomcloud_rts_stack_v1" "mystack" {
  name = "${var.stack_name}"
}
```

#### » Argument Reference

The following arguments are supported:

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

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

- id A unique identifier of the stack.
- capabilities List of stack capabilities for stack.
- notification\_topics List of notification topics for stack.
- status Specifies the stack status.
- disable\_rollback Whether the rollback of the stack is disabled when stack creation fails.
- outputs A list of stack outputs.
- parameters A map of parameters that specify input parameters for the stack.
- template\_body Structure containing the template body.
- timeout\_mins Specifies the timeout duration.

# » Data Source: opentelekomcloud\_rts\_stack\_resource\_v1

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

## » Example Usage

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

data "opentelekomcloud_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.

# » Data Source: opentelekomcloud\_sfs\_file\_system\_v2

Provides information about an Shared File System (SFS).

# » Example Usage

```
variable "share_name" { }

variable "share_id" { }

data "opentelekomcloud_sfs_file_system_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.

# » Data Source: opentelekomcloud\_rts\_software\_deployment\_v1

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

```
variable "deployment_id" {}

data "opentelekomcloud_rts_software_deployment_v1" "mydeployment" {
  id = "${var.deployment_id}"
}
```

The following arguments are supported:

- id (Optional) The id of the software deployment.
- config\_id (Optional) The id of the software configuration resource running on an instance.
- server id (Optional) The id of the instance.
- status (Optional) The current status of deployment resources.
- action (Optional) The stack action that triggers this deployment resource.

#### » Attributes Reference

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

- input\_values The input data stored in the form of a key-value pair.
- output\_values The output data stored in the form of a key-value pair.
- status\_reason The cause of the current deployment resource status.

# $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

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

```
variable "config_name" {}

variable "server_id" {}

data "opentelekomcloud_rts_software_config_v1" "myconfig" {
   id = "${var.config_name}"
}

resource "opentelekomcloud_rts_software_deployment_v1" "mydeployment" {
   config_id = "${data.opentelekomcloud_rts_software_config_v1.myconfig.id}"
   server_id = "${var.server_id}"
}
```

The following arguments are supported:

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

### » Attributes Reference

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

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

# » Data Source: opentelekomcloud\_compute\_bms\_flavors\_v2

opentelekomcloud\_compute\_bms\_flavors\_v2 used to query flavors of BMSs.

#### » Example Usage

```
variable "flavor_id" { }
variable "disk_size" { }

data "opentelekomcloud_compute_bms_flavors_v2" "Query_BMS_flavors"
{
   id = "${var.bms_id}",
    min_disk = "${var.disk_size}",
    sort_key = "id",
    sort_dir = "desc",
}
```

### » Argument Reference

The arguments of this data source act as filters for querying the BMSs details.

• name - (Optional) - The name of the BMS flavor.

- id (Optional) The BMS flavor id.
- min\_ram (Optional) The minimum memory size in MB. Only the BMSs with the memory size greater than or equal to the minimum size can be queried.
- min\_disk (Optional) The minimum disk size in GB. Only the BMSs with a disk size greater than or equal to the minimum size can be queried.
- sort\_key (Optional) The sorting field. The default value is flavorid. The other values are name, memory\_mb, vcpus, root\_gb, or flavorid.
- sort\_dir (Optional) The sorting order, which can be ascending (asc) or descending (desc). The default value is asc.

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

- ram It is the memory size (in MB) of the flavor.
- vcpus It is the number of CPU cores in the BMS flavor.
- disk Specifies the disk size (GB) in the BMS flavor.
- swap This is a reserved attribute.
- $\bullet\ \ rx\_tx\_factor$  This is a reserved attribute.

# » Data Source: opentelekomcloud\_compute\_bms\_keypairs\_v2

opentelekomcloud\_compute\_bms\_keypairs\_v2 used to query SSH key pairs.

```
variable "keypair_name" {}

data "opentelekomcloud_compute_bms_keypairs_v2" "Query_BMS_keypair"
{
    name = "${var.keypair_name}"
}
```

The arguments of this data source act as filters for querying the BMSs details.

• name - (Required) - It is the key pair name.

#### » Attributes Reference

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

- public\_key It gives the information about the public key in the key pair.
- fingerprint It is the fingerprint information about the key pair.

# » Data Source: opentelekomcloud\_compute\_bms\_nic\_v2

opentelekomcloud\_compute\_bms\_nic\_v2 used to query information about a BMS NIC based on the NIC ID.

## » Example Usage

```
variable "bms_id" {}
variable "nic_id" {}

data "opentelekomcloud_compute_bms_nic_v2" "Query_BMS_Nic"
{
    server_id = "${var.bms_id}",
    id = "${var.nic_id}",
}
```

### » Argument Reference

The arguments of this data source act as filters for querying the BMSs details.

- server\_id (Required) This is the unique BMS id.
- id (Optional) The ID of the NIC.
- status (Optional) The NIC port status.

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

- mac address It is NIC's mac address.
- fixed\_ips The NIC IP address.
- network\_id The ID of the network to which the NIC port belongs.

# » Data Source: opentelekomcloud\_compute\_bms\_server\_v2

opentelekomcloud\_compute\_bms\_server\_v2 used to query a BMS or BMSs details.

#### » Example Usage

```
variable "bms_id" {}
variable "bms_name" {}

data "opentelekomcloud_compute_bms_server_v2" "Query_BMS"
{
   id = "${var.bms_id}",
    name = "${var.bms_name}"
}
```

### » Argument Reference

The arguments of this data source act as filters for querying the BMSs details.

- id (Optional) The unique ID of the BMS.
- user\_id (Optional) The ID of the user to which the BMS belongs.
- name (Optional) The name of BMS.
- status (Optional) The BMS status.
- host\_status (Optional) The nova-compute status: UP, UNKNOWN, DOWN, MAINTENANCE and Null.
- key\_name (Optional) It is the SSH key name.
- ${\tt flavor\_id}$  (Optional) It gives the BMS flavor information.
- image\_id (Optional) The BMS image.

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

- host\_id It is the host ID of the BMS.
- progress This is a reserved attribute.
- metadata The BMS metadata is specified.
- access\_ip\_v4 This is a reserved attribute.
- access\_ip\_v6 This is a reserved attribute.
- addresses It gives the BMS network address.
- security\_groups The list of security groups to which the BMS belongs.
- tags Specifies the BMS tag.
- locked It specifies whether a BMS is locked, true: The BMS is locked, false: The BMS is not locked.
- config\_drive This is a reserved attribute.
- availability\_zone Specifies the AZ ID.
- description Provides supplementary information about the pool.
- kernel\_id The UUID of the kernel image when the AMI image is used.
- hypervisor\_hostname It is the name of a host on the hypervisor.
- instance\_name Instance name is specified.

# » Data Source: opentelekomcloud\_csbs\_backup\_v1

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

```
variable "backup_name" { }

data "opentelekomcloud_csbs_backup_v1" "csbs" {
 backup_name = "${var.backup_name}"
}
```

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.
- tags block supports the following arguments:
  - key Specifies tag key.
  - value Specifies tag value.

# » Data Source: opentelekomcloud\_csbs\_backup\_policy\_v1

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

## » Example Usage

```
variable "policy_id" { }

data "opentelekomcloud_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.
- tags block supports the following arguments:
  - key Tag key. It cannot be an empty string.
  - value Tag value. It can be an empty string.

# » Data Source: opentelekomcloud\_deh\_server\_v1

 ${\tt opentelekomcloud\_deh\_server\_v1}$  used to query server on a specified Dedicated Host.

```
variable "deh_id" { }
variable "server_id" { }
data "opentelekomcloud_deh_server_v1" "deh_server"
{
   id = "${var.deh_id}",
    server_id = "${var.server id}"
}
```

The arguments of this data source act as filters for querying the server on specified dedicated host.

- dedicated\_host\_id (Optional) -The Dedicated Host ID.
- server\_id (Optional) The Server ID.

#### » Attributes Reference

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

- user\_id The ID of the user to which the server belongs.
- name The server name.
- flavor The ID of server specifications.
- metadata The metadata of the server.
- status The status of the server.
- tenant\_id The ID of the tenant to which the server belongs.
- addresses The network addresses of the server.

# » Data Source: opentelekomcloud\_deh\_host\_v1

opentelekomcloud\_deh\_host\_v1 used to query allocated dedicated hosts.

## » Example Usage

```
variable "deh_id" { }

data "opentelekomcloud_deh_host_v1" "deh_host"
{
   id = "${var.deh_id}"
}
```

### » Argument Reference

The arguments of this data source act as filters for querying the allocated dedicated host.

• id - (Optional) - The Dedicated Host ID.

• name (Optional) - The Dedicated Host name.

#### » Attributes Reference

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

- host\_type The Dedicated Host type.
- host\_type\_name The Dedicated Host name of type.
- status The Dedicated Host status.
- availability\_zone The Availability Zone to which the Dedicated Host belongs.
- tenant\_id The UUID of the tenant in a multi-tenancy cloud.
- auto\_placement Allows a instance to be automatically placed onto the available Dedicated Hosts.
- available\_vcpus The number of available vCPUs for the Dedicated Host
- available\_memory The size of available memory for the Dedicated Host.
- sockets The number of host physical sockets.
- instance\_total The number of the placed VMs.
- memory The size of host physical memory (MB).
- vcpus The number of host vCPUs.
- available\_instance\_capacities The VM flavors placed on the Dedicated Host.
- cores The number of hosts physical cores.
- instance\_uuids -The VMs started on the Dedicated Host.

# » Data Source: opentelekomcloud\_cts\_tracker\_v1

The OpenTelekomCloud CTS Tracker data source allows access of Cloud Tracker.

```
variable "bucket_name" { }
data "opentelekomcloud_cts_tracker_v1" "tracker_v1" {
```

```
bucket_name = "${var.bucket_name}"
}
```

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: opentelekomcloud\_vbs\_backup\_policy\_v2

The VBS Backup Policy data source provides details about a specific VBS backup policy.

```
variable "policy_name" { }

variable "policy_id" { }

data "opentelekomcloud_vbs_backup_policy_v2" "policies" {
 name = "${var.policy_name}"
 id = "${var.policy_id}"
}
```

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

- id (Optional) The ID of the specific VBS backup policy to retrieve.
- name (Optional) The name of the specific VBS backup policy to retrieve.
- status (Optional) The status of the specific VBS backup policy to retrieve. The values can be ON or OFF

filter\_tags - (Optional) Represents the list of tags. Backup policy with these tags will be filtered.

- key (Required) Specifies the tag key. Tag keys must be unique.
- values (Required) Specifies the List of tag values. This list can have a maximum of 10 values and all be unique.

#### » Attributes Reference

The following attributes are exported:

- id See Argument Reference above.
- name See Argument Reference above.
- status See Argument Reference above.
- start\_time Specifies the start time of the backup job. The value is in the HH:mm format.
- retain\_first\_backup Specifies whether to retain the first backup in the current month.
- rentention\_num Specifies number of retained backups.
- frequency Specifies the backup interval. The value is in the range of 1 to 14 days.
- policy\_resource\_count Specifies the number of volumes associated with the backup policy.

tags - Represents the list of tag details associated with the backup policy.

- key Specifies the tag key.
- value Specifies the tag value.

# » Data Source: opentelekomcloud\_vbs\_backup\_v2

The VBS Backup data source provides details about a specific VBS Backup.

### » Example Usage

```
variable "backup_id" {}

data "opentelekomcloud_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.
- to\_project\_ids IDs of projects with which the backup is shared.
- share\_ids The backup share IDs.

# » Data Source: opentelekomcloud\_antiddos\_v1

The OpenTelekomCloud 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 "id" { }

data "opentelekomcloud_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.

# » opentelekomcloud\_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 "opentelekomcloud_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.
- internal The internal network address.
- external The external network address.
- external\_otc The endpoint of the cluster to be accessed through API Gateway.

# » opentelekomcloud\_cce\_node\_v3

To get the specified node in a cluster.

## » Example Usage

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

data "opentelekomcloud_cce_node_v3" "node" {
  cluster_id = "${var.cluster_id}"
  node_id= "${var.node_id}"
}
```

### » Argument Reference

- Cluster\_id (Required) The id of container cluster.
- name (Optional) Name of the node.
- 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.
- 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.

# » opentelekomcloud\_dcs\_product\_v1

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

## » Example Usage

```
data "opentelekomcloud_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.

# » opentelekomcloud\_dcs\_az\_v1

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

## » Example Usage

```
data "opentelekomcloud_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.

# » opentelekomcloud\_dcs\_maintainwindow\_v1

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

## » Example Usage

```
data "opentelekomcloud_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.

# » opentelekomcloud\_ces\_alarmrule

Manages a V2 topic resource within OpenTelekomCloud.

## » Example Usage

## » Argument Reference

- alarm\_name (Required) Specifies the name of an alarm rule. The value can be a string of 1 to 128 characters that can consist of numbers, lowercase letters, uppercase letters, underscores ( ), or hyphens (-).
- alarm\_description (Optional) The value can be a string of 0 to 256 characters.
- metric (Required) Specifies the alarm metrics. The structure is described below.
- condition (Required) Specifies the alarm triggering condition. The structure is described below.
- alarm\_actions (Optional) Specifies the actions list triggered by an alarm. The structure is described below.
- insufficientdata\_actions (Optional) Specifies the actions list triggered by data insufficiency. The structure is described below.
- ok\_actions (Optional) Specifies the actions list 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 (Required) specifies the topic urn list of the target notification objects. the maximum length is 5. the topic urn list can be obtained from simple message notification (smn) and in the following format: urn: smn:([a-z]|[a-z]|[0-9]|-){1,32}:([a-z]|[a-z]|[0-9]|-]-){1,256}. if type is set to notification, the value of notification\_list cannot be empty. if type is set to autoscaling, the value of notification\_list must be [] and the value of namespace must be sys.as. Note: to enable the as alarm rules take effect, you must bind scaling policies. for details, see the auto scaling api reference.

#### the insufficientdata\_actions block supports:

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

#### the ok\_actions block supports:

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

#### » Attributes Reference

The following attributes are exported:

- alarm\_name See Argument Reference above.
- alarm\_description See Argument Reference above.
- metric See Argument Reference above.
- condition See Argument Reference above.
- alarm\_actions See Argument Reference above.
- insufficientdata\_actions See Argument Reference above.
- ok\_actions See Argument Reference above.
- alarm\_enabled See Argument Reference above.
- alarm\_action\_enabled See Argument Reference above.
- id Specifies the alarm rule ID.
- update\_time Specifies the time when the alarm status changed. The value is a UNIX timestamp and the unit is ms.

• alarm\_state - Specifies the alarm status. The value can be: ok: The alarm status is normal, alarm: An alarm is generated, insufficient\_data: The required data is insufficient.

# » opentelekomcloud\_blockstorage\_volume\_v2

Manages a V2 volume resource within OpenTelekomCloud.

### » Example Usage

## » Argument Reference

- 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. The key/value

include the following parameters: \_\_system\_\_cmkid - (Optional) The ID of the kms key.

'systemencrypted' - The default value is set to '0', it means the volume is not encrypted, the value '1' means volume is encrypted.

- tags (Optional) Tags key/value pairs to associate with the volume. Changing this updates the existing volume tags.
- 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. 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:

- 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 opentelekomcloud\_blockstorage\_volume\_v2.volume\_1 ea257959-eeb1-4c10-8d33-

# » opentelekomcloud\_compute\_floatingip\_v2

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

### » Example Usage

```
resource "opentelekomcloud_compute_floatingip_v2" "floatip_1" {
  pool = "public"
}
```

## » Argument Reference

The following arguments are supported:

• 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:

- 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.

# » opentelekomcloud\_compute\_floatingip\_associate\_v2

Associate a floating IP to an instance. This can be used instead of the floating\_ip options in opentelekomcloud\_compute\_instance\_v2.

## » Example Usage

» Automatically detect the correct network

```
resource "opentelekomcloud_compute_instance_v2" "instance_1" {
                 = "instance_1"
                 = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  image_id
 flavor_id
              = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
}
resource "opentelekomcloud_networking_floatingip_v2" "fip_1" {
 pool = "my_pool"
}
resource "opentelekomcloud_compute_floatingip_associate_v2" "fip_1" {
  floating_ip = "${opentelekomcloud_networking_floatingip_v2.fip_1.address}"
  instance_id = "${opentelekomcloud_compute_instance_v2.instance_1.id}"
}
» Explicitly set the network to attach to
resource "opentelekomcloud_compute_instance_v2" "instance_1" {
                 = "instance_1"
 name
                 = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  image_id
                = 3
 flavor_id
                = "my_key_pair_name"
  key_pair
  security_groups = ["default"]
 network {
   name = "my_network"
 network {
   name = "default"
 }
}
resource "opentelekomcloud_networking_floatingip_v2" "fip_1" {
 pool = "my_pool"
resource "opentelekomcloud_compute_floatingip_associate_v2" "fip_1" {
  floating_ip = "${opentelekomcloud_networking_floatingip_v2.fip_1.address}"
```

```
instance_id = "${opentelekomcloud_compute_instance_v2.instance_1.id}"
  fixed_ip = "${opentelekomcloud_compute_instance_v2.instance_1.network.1.fixed_ip_v4}"
}
```

## » Argument Reference

The following arguments are supported:

- floating\_ip (Required) The floating IP to associate.
- instance\_id (Required) The instance to associte the floating IP with.
- fixed\_ip (Optional) The specific IP address to direct traffic to.

#### » Attributes Reference

The following attributes are exported:

- 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 opentelekomcloud\_compute\_floatingip\_associate\_v2.fip\_1 <floating\_ip>/<inst</pre>

# » opentelekomcloud\_compute\_instance\_v2

Manages a V2 VM instance resource within OpenTelekomCloud.

## » Example Usage

#### » Basic Instance

```
tag {
   foo = "bar"
   key = "value"
  metadata {
    this = "that"
  network {
    name = "my_network"
  }
}
» Instance With Attached Volume
resource "opentelekomcloud_blockstorage_volume_v2" "myvol" {
  name = "myvol"
  size = 1
}
resource "opentelekomcloud_compute_instance_v2" "myinstance" {
                 = "myinstance"
  name
                 = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  image_id
                 = "3"
  flavor_id
  key_pair
                 = "my_key_pair_name"
  security_groups = ["default"]
  network {
    name = "my_network"
}
resource "opentelekomcloud_compute_volume_attach_v2" "attached" {
  instance_id = "${opentelekomcloud_compute_instance_v2.myinstance.id}"
  volume_id = "${opentelekomcloud_blockstorage_volume_v2.myvol.id}"
}
» Boot From Volume
resource "opentelekomcloud_compute_instance_v2" "boot-from-volume" {
                  = "boot-from-volume"
                 = "3"
  flavor_id
  key_pair
                  = "my_key_pair_name"
```

```
security_groups = ["default"]
 block_device {
                         = "<image-id>"
    uuid
    source_type
                         = "image"
                         = 5
   volume_size
   boot_index
                         = 0
                     = "volume"
   destination_type
   delete_on_termination = true
                        = "SSD"
   volume_type
 network {
   name = "my_network"
 }
}
» Boot From an Existing Volume
resource "opentelekomcloud_blockstorage_volume_v2" "myvol" {
          = "myvol"
 name
  size
          = 5
  image_id = "<image-id>"
}
resource "opentelekomcloud_compute_instance_v2" "boot-from-volume" {
                 = "bootfromvolume"
                 = "3"
 flavor_id
                 = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
 block_device {
                         = "${opentelekomcloud_blockstorage_volume_v2.myvol.id}"
   uuid
                         = "volume"
    source_type
   boot_index
                         = 0
                        = "volume"
   destination_type
   delete_on_termination = true
 }
 network {
   name = "my_network"
 }
}
```

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

```
resource "opentelekomcloud_compute_instance_v2" "instance_1" {
                = "instance_1"
 image_id = "<image-id>"
flavor_id = "3"
 key_pair = "my_key_pair_name"
 security_groups = ["default"]
 block_device {
                        = "<image-id>"
   uuid
                       = "image"
   source_type
   destination_type
                       = "volume"
   boot_index
                       = 0
   delete_on_termination = true
 }
 block_device {
   source_type
                        = "blank"
   destination_type = "volume"
   volume_size
                       = 1
   boot_index
   delete_on_termination = true
 }
}
» Boot Instance and Attach Existing Volume as a Block Device
resource "opentelekomcloud_blockstorage_volume_v2" "volume_1" {
 name = "volume 1"
 size = 1
resource "opentelekomcloud_compute_instance_v2" "instance_1" {
                = "instance_1"
            = "<image-id>"
 image_id
               = "3"
 flavor_id
 key_pair = "my_key_pair_name"
 security_groups = ["default"]
 block device {
                       = "<image-id>"
   uuid
   source_type
                        = "image"
   destination_type
                       = "volume"
```

```
boot_index
   delete_on_termination = true
 block_device {
                         = "${opentelekomcloud_blockstorage_volume_v2.volume_1.id}"
    uuid
    source_type
                        = "volume"
    destination_type
   boot_index
    delete_on_termination = true
 }
}
» Instance With Multiple Networks
resource "opentelekomcloud_networking_floatingip_v2" "myip" {
 pool = "my_pool"
resource "opentelekomcloud_compute_instance_v2" "multi-net" {
                 = "multi-net"
 name
                 = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  image_id
                 = "3"
 flavor_id
             = "my_key_pair_name"
 key_pair
  security_groups = ["default"]
 network {
   name = "my_first_network"
 network {
   name = "my_second_network"
}
resource "opentelekomcloud_compute_floatingip_associate_v2" "myip" {
  floating_ip = "${opentelekomcloud_networking_floatingip_v2.myip.address}"
  instance_id = "${opentelekomcloud_compute_instance_v2.multi-net.id}"
 fixed_ip = "${opentelekomcloud_compute_instance_v2.multi-net.network.1.fixed_ip_v4}"
}
» Instance With Personality
resource "opentelekomcloud_compute_instance_v2" "personality" {
```

```
= "personality"
 name
                 = "ad091b52-742f-469e-8f3c-fd81cadf0743"
 image_id
                 = "3"
 flavor_id
               = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
 personality {
         = "/path/to/file/on/instance.txt"
   content = "contents of file"
 }
 network {
   name = "my_network"
 }
}
```

### » Instance with Multiple Ephemeral Disks

```
resource "opentelekomcloud_compute_instance_v2" "multi-eph" {
 name
                = "multi_eph"
                = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  image_id
                = "3"
 flavor_id
           = "my_key_pair_name"
 key_pair
 security_groups = ["default"]
 block_device {
   boot_index
                        = 0
   delete_on_termination = true
   destination_type = "volume"
   source_type
                       = "image"
                        = "<image-id>"
   uuid
 }
 block_device {
   boot_index
   delete_on_termination = true
   destination_type = "volume"
                       = "blank"
   source_type
   volume_size
                       = 1
 }
 block_device {
   boot_index
                        = -1
   delete_on_termination = true
   destination_type = "volume"
```

### » Instance with User Data (cloud-init)

user\_data can come from a variety of sources: inline, read in from the file function, or the template\_cloudinit\_config resource.

### » Argument Reference

**NOTE:** The tags attribute has been deprecated and might be removed in future releases, please use tag instead.

- 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 (Optional) The availability zone in which to create the server. Changing this creates a new server.
- network (Optional) An array of one or more networks to attach to the instance. Required when there are multiple networks defined for the tenant. 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.
- tags DEPRECATED (Optional) The tags of the image. It must be a list of strings.
- tag (Optional) Tags key/value pairs to associate with the instance.
- 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.
- force\_delete (Optional) Whether to force the OpenTelekomCloud instance to be forcefully deleted. This is useful for environments that have reclaim / soft deletion enabled.
- auto\_recovery (Optional) Configures or deletes automatic recovery of an instance

#### The network block supports:

- uuid (Required unless port or name is provided) The network UUID to attach to the server. Changing this creates a new server.
- name (Required unless unid or port is provided) The human-readable name of the network. Changing this creates a new server.
- port (Required unless unid or name is provided) The port UUID of a network to attach to the server. Changing this creates a new server.
- fixed\_ip\_v4 (Optional) Specifies a fixed IPv4 address to be used on this network. Changing this creates a new server.
- fixed\_ip\_v6 (Optional) Specifies a fixed IPv6 address to be used on this network. Changing this creates a new server.
- access\_network (Optional) Specifies if this network should be used for provisioning access. Accepts true or false. Defaults to false.

#### The block device block supports:

- uuid (Required unless source\_type is set to "blank" ) The UUID of the image, volume, or snapshot. Changing this creates a new server.
- source\_type (Required) The source type of the device. Must be one of "blank", "image", "volume", or "snapshot". Changing this creates a new server.
- volume\_size The size of the volume to create (in gigabytes). Required
  in the following combinations: source=image and destination=volume,
  and source=blank and destination=volume. Changing this creates a new
  server.
- volume\_type (Optional) Currently, the value can be SSD (ultra-I/O disk type), SAS (high I/O disk type), or SATA (common I/O disk type) OTC-API
- 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. Currently only support "volume". Changing this creates a new server.

 delete\_on\_termination - (Optional) Delete the volume / block device upon termination of the instance. Defaults to false. Changing this creates a new server.

#### The scheduler\_hints block supports:

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

## 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:

- name See Argument Reference above.
- access\_ip\_v4 The first detected Fixed IPv4 address or the Floating IP.
- access\_ip\_v6 The first detected Fixed IPv6 address.
- metadata See Argument Reference above.
- security\_groups See Argument Reference above.
- flavor\_id See Argument Reference above.
- flavor\_name See Argument Reference above.
- network/uuid See Argument Reference above.
- network/name See Argument Reference above.
- network/port See Argument Reference above.
- network/fixed\_ip\_v4 The Fixed IPv4 address of the Instance on that network.

- network/fixed\_ip\_v6 The Fixed IPv6 address of the Instance on that network.
- network/mac The MAC address of the NIC on that network.
- all\_metadata Contains all instance metadata, even metadata not set by Terraform.
- auto\_recovery See Argument Reference above.

#### » 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 "opentelekomcloud_compute_instance_v2" "foo" {
                 = "terraform-test"
 security_groups = ["default"]
 block_device {
   boot_index
   delete_on_termination = true
   destination_type = "volume"
                        = "image"
   source_type
                        = "<image uuid>"
   uuid
 }
 block_device {
   boot_index
                         = -1
   delete_on_termination = true
   destination_type = "volume"
                        = "blank"
   source_type
   volume_size
                         = 1
 block_device {
   boot_index
                         = -1
   delete_on_termination = true
   destination_type = "volume"
   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 OpenTelekomCloud bug.
- Network IP information is not available within an instance for networks that are attached with Ports. This is mostly due to the flexibility Neutron Ports provide when it comes to IP addresses. For example, a Neutron Port can have multiple Fixed IP addresses associated with it. It's not possible to know which single IP address the user would want returned to the Instance's state information. Therefore, in order for a Provisioner to connect to an Instance via it's network Port, customize the connection information:

```
resource "opentelekomcloud_networking_port_v2" "port_1" {
                 = "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 "opentelekomcloud_compute_instance_v2" "instance_1" {
 name = "instance 1"
 network {
   port = "${opentelekomcloud_networking_port_v2.port_1.id}"
  connection {
                = "root"
    user
                = "${opentelekomcloud_networking_port_v2.port_1.fixed_ip.0.ip_address}"
    private_key = "~/path/to/key"
```

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

# » opentelekomcloud\_compute\_keypair\_v2

Manages a V2 keypair resource within OpenTelekomCloud.

## » Example Usage

# » Argument Reference

The following arguments are supported:

- 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:

- name See Argument Reference above.
- public\_key See Argument Reference above.

### » Import

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

\$ terraform import opentelekomcloud\_compute\_keypair\_v2.my-keypair test-keypair

# » opentelekomcloud\_compute\_secgroup\_v2

Manages a V2 security group resource within OpenTelekomCloud.

## » Example Usage

```
resource "opentelekomcloud_compute_secgroup_v2" "secgroup_1" {
             = "my secgroup"
 description = "my security group"
 rule {
   from_port
              = 22
            = 22
   to_port
   ip_protocol = "tcp"
            = "0.0.0.0/0"
   cidr
 }
 rule {
   from_port
              = 80
   to_port
            = 80
   ip_protocol = "tcp"
   cidr
            = "0.0.0.0/0"
 }
}
```

## » Argument Reference

The following arguments are supported:

- 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:

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

## » Notes

## » ICMP Rules

When using ICMP as the ip\_protocol, the from\_port sets the ICMP type and the to\_port sets the ICMP code. To allow all ICMP types, set each value to -1, like so:

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

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

### » Referencing Security Groups

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

## » Import

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

\$ terraform import opentelekomcloud\_compute\_secgroup\_v2.my\_secgroup 1bc30ee9-9d5b-4c30-bdd5-

# » opentelekomcloud\_compute\_servergroup\_v2

Manages a V2 Server Group resource within OpenTelekomCloud.

# » Example Usage

```
resource "opentelekomcloud_compute_servergroup_v2" "test-sg" {
  name = "my-sg"
  policies = ["anti-affinity"]
}
```

## » Argument Reference

- name (Required) A unique name for the server group. Changing this creates a new server group.
- policies (Required) The set of policies for the server group. Only two two policies are available right now, and both are mutually exclusive. See the Policies section for more information. Changing this creates a new server group.
- value\_specs (Optional) Map of additional options.

### » Policies

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

### » Attributes Reference

The following attributes are exported:

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

## » Import

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

\$ terraform import opentelekomcloud\_compute\_servergroup\_v2.test-sg 1bc30ee9-9d5b-4c30-bdd5-

# » opentelekomcloud\_compute\_volume\_attach\_v2

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

### » Example Usage

» Basic attachment of a single volume to a single instance

```
instance_id = "${opentelekomcloud_compute_instance_v2.instance_1.id}"
  volume_id = "${opentelekomcloud_blockstorage_volume_v2.volume_1.id}"
}
» Attaching multiple volumes to a single instance
resource "opentelekomcloud_blockstorage_volume_v2" "volumes" {
 name = "${format("vol-%02d", count.index + 1)}"
  size = 1
}
resource "opentelekomcloud_compute_instance_v2" "instance_1" {
                  = "instance 1"
  security_groups = ["default"]
}
resource "opentelekomcloud_compute_volume_attach_v2" "attachments" {
  instance_id = "${opentelekomcloud_compute_instance_v2.instance_1.id}"
            = "${element(opentelekomcloud_blockstorage_volume_v2.volumes.*.id, count.index
}
output "volume devices" {
  value = "${opentelekomcloud_compute_volume_attach_v2.attachments.*.device}"
```

## » Argument Reference

- 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:

- 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 opentelekomcloud\_compute\_volume\_attach\_v2.va\_1 89c60255-9bd6-460c-822a-e2

# » opentelekomcloud\_compute\_bms\_server\_v2

Manages a BMS Server resource within OpenTelekomCloud.

# » Example Usage

#### » Basic Instance

```
variable "image_id" {}
variable "flavor_id" {}
variable "keypair_name" {}
variable "network_id" {}
variable "availability_zone" {}
resource "opentelekomcloud_compute_bms_server_v2" "basic" {
                 = "basic"
  image_id
                 = "${var.image_id}"
                = "${var.flavor_id}"
 flavor_id
                 = "${var.keypair_name}"
 key_pair
  security_groups = ["default"]
  availability_zone = "${var.availability_zone}"
 metadata {
   this = "that"
```

```
network {
    uuid = "${var.network_id}"
}
» Instance Boot From Volume Image
variable "image_id" {}
variable "flavor_id" {}
variable "keypair_name" {}
variable "network_id" {}
variable "availability_zone" {}
resource "opentelekomcloud_compute_bms_server_v2" "basic" {
                = "basic"
  name
 image_id = "${var.image_id}"
flavor_id = "${var.flavor_id}
                = "${var.flavor_id}"
  key_pair = "${var.keypair_name}"
  security_groups = ["default"]
  availability_zone = "${var.availability_zone}"
  metadata {
    this = "that"
  network {
   uuid = "${var.network_id}"
  block_device {
    uuid = "${var.image_id}"
    source_type = "image"
    volume_type = "SATA"
    volume_size = 100
    boot_index = 0
    destination_type = "volume"
    delete_on_termination = true
    device_name = "/dev/sda"
  }
}
```

## » Argument Reference

- name (Required) The name of the BMS.
- image\_id (Optional; Required if image\_name is empty.) Changing this creates a new bms server.
- image\_name (Optional; Required if image\_id is empty.) The name of the desired image for the bms server. Changing this creates a new bms server.
- flavor\_id (Optional; Required if flavor\_name is empty) The flavor ID of the desired flavor for the bms server. Changing this resizes the existing bms server.
- flavor\_name (Optional; Required if flavor\_id is empty) The name of the desired flavor for the bms server. Changing this resizes the existing bms server.
- user\_data (Optional) The user data to provide when launching the instance. Changing this creates a new bms server.
- security\_groups (Optional) An array of one or more security group names to associate with the bms server. Changing this results in adding/removing security groups from the existing bms server.
- availability\_zone (Required) The availability zone in which to create
  the bms server.
- network (Optional) An array of one or more networks to attach to the bms instance. Changing this creates a new bms server.
- metadata (Optional) Metadata key/value pairs to make available from within the instance. Changing this updates the existing bms server metadata.
- admin\_pass (Optional) The administrative password to assign to the bms server. Changing this changes the root password on the existing server.
- key\_pair (Optional) The name of a key pair to put on the bms server. The key pair must already be created and associated with the tenant's account. Changing this creates a new bms server.
- 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 bms server. Changing this creates a new bms server.

- name (Required unless unid or port is provided) The human-readable name of the network. Changing this creates a new bms server.
- port (Required unless unid or name is provided) The port UUID of a network to attach to the bms 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 bms server.
- fixed\_ip\_v6 (Optional) Specifies a fixed IPv6 address to be used on this network. Changing this creates a new bms server.
- access\_network (Optional) Specifies if this network should be used for provisioning access. Accepts true or false. Defaults to false.

## » Attributes Reference

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

- id The id of the bms server.
- config\_drive Whether to use the config\_drive feature to configure the instance.
- kernel\_id The UUID of the kernel image when the AMI image is used.
- user\_id The ID of the user to which the BMS belongs.
- host\_status The nova-compute status: UP, UNKNOWN, DOWN, MAINTENANCE and Null.

# $\ \ \, \text{ opentelekomcloud\_dns\_recordset\_v2}$

Manages a DNS record set in the OpenTelekomCloud DNS Service.

## » Example Usage

» Automatically detect the correct network

```
resource "opentelekomcloud_dns_zone_v2" "example_zone" {
  name = "example.com."
  email = "email2@example.com"
  description = "a zone"
  ttl = 6000
  type = "PRIMARY"
}
```

```
resource "opentelekomcloud_dns_recordset_v2" "rs_example_com" {
  zone_id = "${opentelekomcloud_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:

- 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. Examples: "A", "MX". Changing this creates a new DNS record set.
- ttl (Optional) The time to live (TTL) of the record set.
- description (Optional) A description of the record set.
- records (Optional) 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:

- 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 opentelekomcloud\_dns\_recordset\_v2.recordset\_1 <zone\_id>/<recordset\_id>

## » opentelekomcloud\_dns\_zone\_v2

Manages a DNS zone in the OpenTelekomCloud DNS Service.

## » Example Usage

#### » Public Zone Configuration

```
resource "opentelekomcloud_dns_zone_v2" "public_example_com" {
  name = "public.example.com."
  email = "public@example.com"
  description = "An example for public zone"
  ttl = 3000
  type = "public"
}
```

#### » Private Zone Configuration

```
resource "opentelekomcloud_dns_zone_v2" "private_example_com" {
  name = "private.example.com."
  email = "private@example.com"
  description = "An example for private zone"
  ttl = 3000
  type = "private"
  router = {
    router_id = "${var.vpc_id}"
    router_region = "${var.region}"
  }
}
```

### » Argument Reference

The following arguments are supported:

• 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.
- type (Optional) The type of zone. Can either be public or private. Changing this creates a new zone.
- ttl (Optional) The time to live (TTL) of the zone.
- description (Optional) A description of the zone.
- router (Optional) The Router(VPC) configuration for the private zone. it is required when type is private. Changing this creates a new zone.
- masters (Optional) An array of master DNS servers.
- value\_specs (Optional) Map of additional options. Changing this creates a new zone.

The router block supports:

- router\_id (Required) The Router(VPC) ID. which VPC network will assicate with.
- router\_region (Required) The Region name for this private zone.

#### » Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- email See Argument Reference above.
- type See Argument Reference above.
- ttl See Argument Reference above.
- description See Argument Reference above.
- masters See Argument Reference above.
- value\_specs See Argument Reference above.

#### » Import

This resource can be imported by specifying the zone ID:

\$ terraform import opentelekomcloud\_dns\_zone\_v2.zone\_1 <zone\_id>

# ightarrow opentelekomcloud\_elb\_loadbalancer

 ${\it Manages \ an \ elastic \ loadbalancer \ resource \ within \ Open telekom Cloud.}$ 

## » Example Usage

```
resource "opentelekomcloud_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. Changing this creates a new elb loadbalancer.
- 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. Changing this creates a new elb loadbalancer.
- 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. Changing this creates a new elb loadbalancer.
- 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. Changing this creates a new elb loadbalancer.
- 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. Changing this creates a new elb load-balancer.

- 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, parameter bandwidth is invalid. Changing this creates a new elb loadbalancer.
- 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.
- security\_group\_id See Argument Reference above.
- vip address See Argument Reference above.
- tenantid See Argument Reference above.
- id Specifies the load balancer ID.

## » opentelekomcloud\_elb\_listener

Manages an elastic loadbalancer listener resource within OpentelekomCloud.

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

```
bandwidth = 5
}

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

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. Changing this creates a new elb listener.
- protocol (Required) Specifies the listening protocol used for layer 4 or 7. The value can be HTTP, TCP, HTTPS, or UDP. Changing this creates a new elb listener.
- protocol\_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. Changing this creates a new elb listener.
- 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. Changing this creates a new elb listener.
- session\_sticky\_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. Changing this creates a new elb listener.
- cookie\_timeout (Optional) Specifies the cookie timeout period (minutes). This parameter is valid when protocol is set to HTTP, session\_sticky to true, and session\_sticky\_type to insert. This parameter is invalid when protocol is set to TCP or UDP. The value ranges from 1 to 1440. Changing this creates a new elb listener.
- 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. Changing this creates a new elb listener.
- 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. Changing this creates a new elb listener.

• 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.
- protocol\_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.
- session\_sticky\_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.
- id Specifies the listener ID.
- admin\_state\_up Specifies the status of the load balancer. Value range: false: The load balancer is disabled. true: The load balancer runs properly.

# » opentelekomcloud\_elb\_health

Manages an elastic loadbalancer health resource within OpentelekomCloud.

```
resource "opentelekomcloud_elb_loadbalancer" "elb" {
  name = "elb"
```

```
type = "External"
  description = "test elb"
  vpc_id = "e346dc4a-d9a6-46f4-90df-10153626076e"
  admin_state_up = 1
  bandwidth = 5
}
resource "opentelekomcloud_elb_listener" "listener" {
 name = "test-elb-listener"
 description = "great listener"
 protocol = "TCP"
 backend_protocol = "TCP"
 protocol_port = 12345
 backend port = 8080
  lb_algorithm = "roundrobin"
  loadbalancer_id = "${opentelekomcloud_elb_loadbalancer.elb.id}"
  timeouts {
    create = "5m"
    update = "5m"
    delete = "5m"
 }
}
resource "opentelekomcloud_elb_health" "healthcheck" {
  listener_id = "${opentelekomcloud_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"
}
```

The following arguments are supported:

- listener\_id (Required) Specifies the ID of the listener to which the health check task belongs. Changing this creates a new elb health.
- 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.

# » opentelekomcloud\_elb\_backend

Manages an elastic loadbalancer backend resource within OpentelekomCloud.

```
resource "opentelekomcloud_elb_loadbalancer" "elb" {
```

```
name = "elb"
 type = "External"
  description = "test elb"
  vpc_id = "e346dc4a-d9a6-46f4-90df-10153626076e"
  admin_state_up = 1
  bandwidth = 5
}
resource "opentelekomcloud_elb_listener" "listener" {
 name = "test-elb-listener"
 description = "great listener"
 protocol = "TCP"
  backend_protocol = "TCP"
 protocol port = 12345
 backend_port = 8080
 lb algorithm = "roundrobin"
 loadbalancer_id = "${opentelekomcloud_elb_loadbalancer.elb.id}"
  timeouts {
    create = "5m"
   update = "5m"
    delete = "5m"
 }
}
resource "opentelekomcloud_elb_backend" "backend" {
  address = "192.168.0.211"
 listener_id = "${opentelekomcloud_elb_listener.listener.id}"
  server_id = "8f7a32f1-f66c-4d13-9b17-3a13f9f0bb8d"
}
```

The following arguments are supported:

- listener\_id (Required) Specifies the listener ID. Changing this creates a new elb backend.
- server\_id (Required) Specifies the backend member ID. Changing this creates a new elb backend.
- address (Required) Specifies the private IP address of the backend member. Changing this creates a new elb backend.

#### » Attributes Reference

The following attributes are exported:

- listener id See Argument Reference above.
- server\_id See Argument Reference above.
- address See Argument Reference above.
- server\_address Specifies the floating IP address assigned to the backend member.
- id Specifies the backend member ID.
- status Specifies the backend ECS status. The value is ACTIVE, PEND-ING, or ERROR.
- health\_status Specifies the health check status. The value is NORMAL, ABNORMAL, or UNAVAILABLE.
- update\_time Specifies the time when information about the backend member was updated.
- create\_time Specifies the time when the backend member was created.
- server\_name Specifies the backend member name.
- listeners Specifies the listener to which the backend member belongs.

## » opentelekomcloud\_identity\_agency\_v3

Manages an agency resource within Opentelekomcloud.

**Note**: It can not set tenant\_name in provider "opentelekomcloud" when using this resource.

### » Argument Reference

The following arguments are supported:

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

The project\_role block supports:

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

**note**: one or both of project\_role and domain\_roles must be input when creating an agency.

#### » Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- description See Argument Reference above.
- delegated\_domain\_name See Argument Reference above.
- project\_role See Argument Reference above.
- domain\_roles See Argument Reference above.
- duration Validity period of an agency. The default value is null, indicating that the agency is permanently valid.
- $\bullet\,$  expire\_time The expiration time of agency
- create time The time when the agency was created.
- id The agency ID.

## » opentelekomcloud\_identity\_project\_v3

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

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

## » Example Usage

```
resource "opentelekomcloud_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.

#### » 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 opentelekomcloud\_identity\_project\_v3.project\_1 89c60255-9bd6-460c-822a-e4

## » opentelekomcloud\_identity\_user\_v3

Manages a User resource within OpentelekomCloud IAM service.

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

#### » Example Usage

```
resource "opentelekomcloud_identity_user_v3" "user_1" {
  name = "user_1"
  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.
- 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.

#### » 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 opentelekomcloud\_identity\_user\_v3.user\_1 89c60255-9bd6-460c-822a-e2b959ed

## » opentelekomcloud\_identity\_group\_v3

Manages a User Group resource within OpentelekomCloud IAM service.

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

#### » Example Usage

```
resource "opentelekomcloud_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.

#### » 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 opentelekomcloud\_identity\_group\_v3.group\_1 89c60255-9bd6-460c-822a-e2b959

## » opentelekomcloud\_identity\_group\_membership\_v3

Manages a User Group Membership resource within OpentelekomCloud IAM service.

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

## » Example Usage

```
resource "opentelekomcloud_identity_group_v3" "group_1" {
  name = "group1"
  description = "This is a test group"
}
resource "opentelekomcloud identity user v3" "user 1" {
      name = "user1"
      enabled = true
      password = "password12345!"
}
resource "opentelekomcloud_identity_user_v3" "user_2" {
      name = "user2"
      enabled = true
      password = "password12345!"
}
resource "opentelekomcloud_identity_group_membership_v3" "membership_1" {
        group = "${opentelekomcloud_identity_group_v3.group_1.id}"
        users = ["${opentelekomcloud_identity_user_v3.user_1.id}",
                "${opentelekomcloud_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.

## » opentelekomcloud\_identity\_role\_assignment\_v3

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

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

### » Example Usage: Assign Role On Project Level

```
resource "opentelekomcloud_identity_project_v3" "project_1" {
 name = "eu-de project 1"
}
resource "opentelekomcloud_identity_group_v3" "group_1" {
 name = "group_1"
data "opentelekomcloud_identity_role_v3" "role_1" {
 name = "system_all_4" #ECS admin
}
resource "opentelekomcloud_identity_role_assignment_v3" "role_assignment_1" {
 group_id = "${opentelekomcloud_identity_group_v3.group_1.id}"
 project_id = "${opentelekomcloud_identity_project_v3.project_1.id}"
 role_id = "${data.opentelekomcloud_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 "opentelekomcloud_identity_group_v3" "group_1" {
```

resource "opentelekomcloud\_identity\_role\_assignment\_v3" "role\_assignment\_1" {

data "opentelekomcloud\_identity\_role\_v3" "role\_1" {

name = "secu\_admin" #security admin

name = "group\_1"

}

}

```
group_id = "${opentelekomcloud_identity_group_v3.group_1.id}"
domain_id = "${var.domain_id}"
role_id = "${data.opentelekomcloud_identity_role_v3.role_1.id}"
}
```

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.
- user\_id (Optional; Required if group\_id is empty) The user 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.
- user\_id See Argument Reference above.
- role\_id See Argument Reference above.

# > opentelekomcloud\_images\_image\_v2

Manages a V2 Image resource within OpenTelekomCloud Glance.

```
resource "opentelekomcloud_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"]
}
```

The following arguments are supported:

- container\_format (Required) The container format. Must be one of "ami", "ari", "aki", "bare", "ovf".
- disk\_format (Required) The disk format. Must be one of "ami", "ari", "aki", "vhd", "vmdk", "raw", "qcow2", "vdi", "iso".
- 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 gophercloud library does not yet provide a way to do so. Conflicts with local\_file\_path.
- min\_disk\_gb (Optional) Amount of disk space (in GB) required to boot image. Defaults to 0.
- min\_ram\_mb (Optional) Amount of ram (in MB) required to boot image.
   Defauts to 0.
- name (Required) The name of the image.
- protected (Optional) If true, image will not be deletable. Defaults to false.
- 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 one of "public", "private", "community", or "shared". The ability to set the visibility depends upon the configuration of the OpenTelekomCloud cloud.

Note: The **properties** attribute handling in the gophercloud 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 opentelekomcloud user who owns the image.
- protected 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 opentelekomcloud\_images\_image\_v2.rancheros 89c60255-9bd6-460c-822a-e2b95

## » opentelekomcloud\_maas\_task\_v1

Manages resource task within OpenTelekomCloud MAAS.

## » Example Usage: Creating a MAAS task

```
resource "opentelekomcloud_maas_task_v1" "task_1" {
  description = "migration task"
  enable_kms = true
  thread_num = 1
  src_node {
    ak = "AK",
    sk = "SK",
    object_key = "123.txt",
    bucket = "tommy-bucket",
```

```
}
dst_node {
    ak = "AK",
    sk = "SK",
    object_key = "maas/",
    bucket = "test-maas",
}
}
```

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:

- 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. The default value is AWS and only AWS is supported now.

The dst\_node block supports:

- ak (Required) Specifies the destination bucket Access Key.
- sk (Required) Specifies the destination bucket Secret Key.
- object\_key (Optional) 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.

## » opentelekomcloud\_mrs\_cluster\_v1

Manages resource cluster within OpenTelekomCloud MRS.

## » Example Usage: Creating a MRS cluster

```
resource "opentelekomcloud mrs cluster v1" "cluster1" {
  cluster_name = "mrs-cluster"
  billing_type = 12
 master node num = 2
  core node num = 3
 master_node_size = "c2.4xlarge.linux"
  core_node_size = "s1.xlarge.linux"
  available_zone_id = "sa-chile-1a"
  vpc_id = "51edfb75-f9f0-4bbc-b4dc-21466b93f60d"
  subnet_id = "1d7a8646-43ee-455a-a3ab-40da87a1304c"
  cluster_version = "MRS 1.5.0"
  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_list {
    component_name = "Hive"
}
```

The following arguments are supported:

- billing\_type (Required) The value is 12, indicating on-demand payment.
- 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. Master nodes support h1.2xlarge.linux.mrs h1.4xlarge.linux.mrs, h1.8xlarge.linux.mrs, s1.4xlarge.linux.mrs, and s1.8xlarge.linux.mrs. Core nodes of a streaming cluster support all specifications c2.2xlarge.linux.mrs, c2.4xlarge.linux.mrs, s1.xlarge.linux.mrs, s1.4xlarge.linux.mrs, s1.8xlarge.linux.mrs, d1.xlarge.linux.mrs, d1.2xlarge.linux.mrs, d1.4xlarge.linux.mrs, d1.8xlarge.linux.mrs, h1.2xlarge.linux.mrs, h1.4xlarge.linux.mrs and h1.8xlarge.linux.mrs. Task nodes support c2.2xlarge.linux.mrs, c2.4xlarge.linux.mrs, s1.xlarge.linux.mrs, s1.4xlarge.linux.mrs, s1.8xlarge.linux.mrs, h1.2xlarge.linux.mrs, h1.4xlarge.linux.mrs, and h1.8xlarge.linux.mrs.
- core\_node\_num (Required) Number of Core nodes Value range: 1 to 500 A maximum of 500 Core nodes are supported by default. If more than 500 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.
- 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 1.2, MRS 1.3.0, MRS 1.5.0, MRS 1.6.0 and MRS 1.6.3 are supported. The latest version of MRS is used by default. Currently, the latest version is MRS 1.6.3.
- 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 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. Loader and Flume are not supported by MRS 1.3.0. Kafka and Storm are not supported by MRS 1.2.
- componentId Component ID Component IDs supported by MRS 1.5.0 include: MRS 1.5.0\_001: Hadoop MRS 1.5.0\_002: Spark MRS 1.5.0\_003: HBase MRS 1.5.0\_004: Hive MRS 1.5.0\_005: Hue MRS 1.5.0\_006: Kafka MRS 1.5.0\_007: Storm MRS 1.5.0\_008: Loader MRS 1.5.0\_009: Flume Component IDs supported by MRS 1.3.0 include: MRS 1.3.0\_001: Hadoop MRS 1.3.0\_002: Spark MRS 1.3.0\_003: HBase MRS 1.3.0\_004: Hive MRS 1.3.0\_005: Hue MRS 1.3.0\_006: Kafka MRS 1.3.0\_007: Storm For example, the component ID of Hadoop is MRS 1.5.0\_001, or MRS 1.3.0\_001.
- componentName Component name Currently, Hadoop, Spark, HBase, Hive, Hue, Loader, Flume, Kafka and Storm are supported. Loader and Flume are not supported by MRS 1.3.0.
- componentVersion Component version MRS 1.5.0 supports the following component version: Component version of an analysis cluster: Hadoop: 2.7.2 Spark: 2.1.0 HBase: 1.0.2 Hive: 1.2.1 Hue: 3.11.0 Loader: 2.0.0 Component version of a streaming cluster: Kafka: 0.10.0.0 Storm: 1.0.2 Flume: 1.6.0 MRS 1.3.0 supports the following component version: Component version of an analysis cluster: Hadoop: 2.7.2 Spark: 1.5.1 HBase: 1.0.2 Hive: 1.2.1 Hue: 3.11.0 Component version of a streaming cluster: Kafka: 0.10.0.0 Storm: 1.0.2

• componentDesc - Component description

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

- job\_name (Required) Job name It contains only 1 to 64 letters, digits, hyphens (-), and underscores (\_). NOTE: Identical job names are allowed but not recommended.
- jar\_path (Required) Path of the .jar file or .sql file for program execution The parameter must meet the following requirements: Contains a maximum of 1023 characters, excluding special characters such as ;|&><'\$. The address cannot be empty or full of spaces. Starts with / or s3a://. Spark Script must end with .sql; while MapReduce and Spark Jar must end with .jar. sql and jar are case-insensitive.
- arguments (Optional) Key parameter for program execution The parameter is specified by the function of the user's program. MRS is only responsible for loading the parameter. The parameter contains a maximum of 2047 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- input (Optional) Path for inputting data, which must start with / or s3a://. A correct OBS path is required. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- output (Optional) Path for outputting data, which must start with / or s3a://. A correct OBS path is required. If the path does not exist, the system automatically creates it. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- job\_log (Optional) Path for storing job logs that record job running status. This path must start with / or s3a://. A correct OBS path is required. The parameter contains a maximum of 1023 characters, excluding special characters such as ;|&>'<\$, and can be empty.
- shutdown\_cluster (Optional) Whether to delete the cluster after the jobs are complete true: Yes false: No
- file\_action (Optional) Data import and export import export
- submit\_job\_once\_cluster\_run (Required) true: A job is submitted when a cluster is created. false: A job is submitted separately. The parameter is set to true in this example.

- hql (Optional) HiveQL statement
- hive\_script\_path (Optional) SQL program path This parameter is needed by Spark Script and Hive Script jobs only and must meet the following requirements: Contains a maximum of 1023 characters, excluding special characters such as ;|&><'\\$. The address cannot be empty or full of spaces. Starts with / or s3a://. Ends with .sql. sql is case-insensitive.

#### » Attributes Reference

The following attributes are exported:

- billing\_type See Argument Reference above.
- data\_center See Argument Reference above.
- master\_node\_num See Argument Reference above.
- master\_node\_size See Argument Reference above.
- core\_node\_num See Argument Reference above.
- core\_node\_size See Argument Reference above.
- available\_zone\_id See Argument Reference above.
- cluster\_name See Argument Reference above.
- vpc\_id See Argument Reference above.
- subnet\_id See Argument Reference above.
- cluster\_version See Argument Reference above.
- cluster\_type See Argument Reference above.
- volume\_type See Argument Reference above.
- volume\_size See Argument Reference above.
- node\_public\_cert\_name See Argument Reference above.
- safe mode See Argument Reference above.
- cluster admin secret See Argument Reference above.
- log\_collection See Argument Reference above.
- component\_list See Argument Reference below.
- add\_jobs See Argument Reference above.
- order\_id Order ID for creating clusters.
- cluster\_id Cluster ID.
- available\_zone\_name Name of an availability zone.
- instance\_id Instance ID.
- hadoop\_version Hadoop version.
- master\_node\_ip IP address of a Master node.
- external IP address.
- private\_ip\_first Primary private IP address.
- external\_ip External IP address.
- slave\_security\_groups\_id Standby security group ID.
- security\_groups\_id Security group ID.
- external\_alternate\_ip Backup external IP address.
- master node spec id Specification ID of a Master node.
- core\_node\_spec\_id Specification ID of a Core node.

- master\_node\_product\_id Product ID of a Master node.
- core\_node\_product\_id Product ID of a Core node.
- duration Cluster subscription duration.
- vnc URI address for remote login of the elastic cloud server.
- fee Cluster creation fee, which is automatically calculated.
- deployment\_id Deployment ID of a cluster.
- cluster\_state Cluster status Valid values include: existing history starting running terminated failed abnormal terminating rebooting shutdown frozen scaling-out scaling-in scaling-error.
- tenant id Project ID.
- create at Cluster creation time.
- update\_at Cluster update time.
- error\_info Error information.
- charging start time Time when charging starts.
- remark Remarks of a cluster.

The component\_list attributes: \* component\_name - (Required) Component name Currently, Hadoop, Spark, HBase, Hive, Hue, Loader, Flume, Kafka and Storm are supported. Loader and Flume are not supported by MRS 1.3.0. \* component\_id - Component ID Component IDs supported by MRS 1.5.0 include: MRS 1.5.0\_001: Hadoop MRS 1.5.0\_002: Spark MRS 1.5.0\_003: HBase MRS 1.5.0 004: Hive MRS 1.5.0 005: Hue MRS 1.5.0 006: Kafka MRS 1.5.0 007: Storm MRS 1.5.0 008: Loader MRS 1.5.0 009: Flume Component IDs supported by MRS 1.3.0 include: MRS 1.3.0 001: Hadoop MRS 1.3.0 002: Spark MRS 1.3.0\_003: HBase MRS 1.3.0\_004: Hive MRS 1.3.0\_005: Hue MRS 1.3.0\_006: Kafka MRS 1.3.0\_007: Storm For example, the component ID of Hadoop is MRS 1.5.0\_001, or MRS 1.3.0\_001. \* component\_version -Component version MRS 1.5.0 supports the following component version: Component version of an analysis cluster: Hadoop: 2.7.2 Spark: 2.1.0 HBase: 1.0.2 Hive: 1.2.1 Hue: 3.11.0 Loader: 2.0.0 Component version of a streaming cluster: Kafka: 0.10.0.0 Storm: 1.0.2 Flume: 1.6.0 MRS 1.3.0 supports the following component version: Component version of an analysis cluster: Hadoop: 2.7.2 Spark: 1.5.1 HBase: 1.0.2 Hive: 1.2.1 Hue: 3.11.0 Component version of a streaming cluster: Kafka: 0.10.0.0 Storm: 1.0.2 \* component\_desc - Component description

# » opentelekomcloud\_mrs\_job\_v1

Manages resource job within OpenTelekomCloud MRS.

```
resource "opentelekomcloud_mrs_job_v1" "job1" {
  job_type = 1
```

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

The following arguments are supported:

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

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

#### » Attributes Reference

The following attributes are exported:

- job\_type See Argument Reference above.
- job\_name See Argument Reference above.
- cluster\_id See Argument Reference above.
- jar\_path See Argument Reference above.
- arguments See Argument Reference above.
- input See Argument Reference above.
- output See Argument Reference above.
- job log See Argument Reference above.
- hive\_script\_path See Argument Reference above.
- is\_protected See Argument Reference above.
- is\_public See Argument Reference above.

# ightarrow opentelekomcloud\_nat\_gateway\_v2

Manages a V2 nat gateway resource within OpenTelekomCloud Nat

```
resource "opentelekomcloud_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"
}
```

The following arguments are supported:

- 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 (Required) ID of the network this nat gateway connects to. Changing this creates a new nat gateway.

#### » Attributes Reference

The following attributes are exported:

- 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.

# $\ \ \, \text{ ``opentelekomcloud}\_\text{nat}\_\text{snat}\_\text{rule}\_\text{v2}$

Manages a V2 snat rule resource within OpenTelekomCloud Nat

```
resource "opentelekomcloud_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"
}
```

The following arguments are supported:

- nat\_gateway\_id (Required) ID of the nat gateway this snat rule belongs to. Changing this creates a new snat rule.
- network\_id (Optional) ID of the network this snat rule connects to. This parameter and cidr are alternative. Changing this creates a new snat rule.
- source\_type (Optional) 0: Either network\_id or cidr can be specified in a VPC. 1: Only cidr can be specified over a dedicated network. Changing this creates a new snat rule.
- cidr (Optional) Specifies CIDR, which can be in the format of a network segment or a host IP address. This parameter and network\_id are alternative. If the value of source\_type is 0, the CIDR block must be a subset of the VPC subnet CIDR block. If the value of source\_type is 1, the CIDR block must be a CIDR block of Direct Connect and cannot conflict with the VPC CIDR blocks. Changing this creates a new snat rule.
- floating\_ip\_id (Required) ID of the floating ip this snat rule connets to. Changing this creates a new snat rule.

#### » Attributes Reference

The following attributes are exported:

- nat\_gateway\_id See Argument Reference above.
- network\_id See Argument Reference above.
- floating\_ip\_id See Argument Reference above.
- source\_type See Argument Reference above.
- cidr See Argument Reference above.

## » opentelekomcloud\_networking\_floatingip\_v2

Manages a V2 floating IP resource within OpenTelekomCloud 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 "opentelekomcloud_networking_floatingip_v2" "floatip_1" {
  pool = "public"
}
```

#### » Argument Reference

The following arguments are supported:

- 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:

- 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 opentelekomcloud\_networking\_floatingip\_v2.floatip\_1 2c7f39f3-702b-48d1-94

## » opentelekomcloud\_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 opentelekomcloud\_networking\_floatingip\_v2 resource to create a floating IP.

#### » Example Usage

```
resource "opentelekomcloud_networking_port_v2" "port_1" {
   network_id = "a5bbd213-e1d3-49b6-aed1-9df60ea94b9a"
}
resource "opentelekomcloud_networking_floatingip_associate_v2" "fip_1" {
   floating_ip = "1.2.3.4"
   port_id = "${opentelekomcloud_networking_port_v2.port_1.id}"
}
```

### » Argument Reference

The following arguments are supported:

- 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:

- 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 opentelekomcloud\_networking\_floatingip\_associate\_v2.fip 2c7f39f3-702b-48c

## » opentelekomcloud\_networking\_network\_v2

Manages a V2 Neutron network resource within OpenTelekomCloud.

```
resource "opentelekomcloud_networking_network_v2" "network_1" {
                = "network_1"
  admin_state_up = "true"
}
resource "opentelekomcloud networking subnet v2" "subnet 1" {
            = "subnet 1"
 network_id = "${opentelekomcloud_networking_network_v2.network_1.id}"
           = "192.168.199.0/24"
  ip\_version = 4
resource "opentelekomcloud_compute_secgroup_v2" "secgroup_1" {
             = "secgroup_1"
  description = "a security group"
 rule {
   from_port = 22
   to_port = 22
   ip_protocol = "tcp"
              = "0.0.0.0/0"
    cidr
 }
}
resource "opentelekomcloud_networking_port_v2" "port_1" {
                    = "port_1"
                    = "${opentelekomcloud_networking_network_v2.network_1.id}"
 network_id
 admin_state_up = "true"
  security_group_ids = ["${opentelekomcloud_compute_secgroup_v2.secgroup_1.id}"]
 fixed_ip {
    "subnet_id" = "${opentelekomcloud_networking_subnet_v2.subnet_1.id}"
    "ip_address" = "192.168.199.10"
 }
}
resource "opentelekomcloud_compute_instance_v2" "instance_1" {
                 = "instance_1"
  security_groups = ["${opentelekomcloud_compute_secgroup_v2.secgroup_1.name}"]
 network {
   port = "${opentelekomcloud_networking_port_v2.port_1.id}"
```

The following arguments are supported:

- name (Optional) The name of the network. Changing this updates the name of the existing network.
- shared (Optional) Specifies whether the network resource can be accessed by any tenant or not. Changing this updates the sharing capabalities of the existing network.
- tenant\_id (Optional) The owner of the network. Required if admin wants to create a network for another tenant. Changing this creates a new network.
- admin\_state\_up (Optional) The administrative state of the network. Acceptable values are "true" and "false". Changing this value updates the state of the existing network.
- segments (Optional) An array of one or more provider segment objects.
- value\_specs (Optional) Map of additional options.

The segments block supports:

- physical\_network The phisical network where this network is implemented.
- segmentation id An isolated segment on the physical network.
- network\_type The type of physical network.

#### » Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- shared See Argument Reference above.
- tenant\_id See Argument Reference above.
- admin\_state\_up See Argument Reference above.

#### » Import

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

\$ terraform import opentelekomcloud\_networking\_network\_v2.network\_1 d90ce693-5ccf-4136-a0ed

## » opentelekomcloud\_networking\_port\_v2

Manages a V2 port resource within OpenTelekomCloud.

#### » Example Usage

#### » Argument Reference

- 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) 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).
- 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.
- 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.

The allowed\_address\_pairs block supports:

- ip\_address (Required) The additional IP address.
- mac\_address (Optional) The additional MAC address.

#### » Attributes Reference

The following attributes are exported:

- $\bullet\,$ 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.

#### » Import

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

 $\$\ terraform\ import\ opentelekomcloud\_networking\_port\_v2.port\_1\ eae 26a3e-1c33-4cc1-9c31-0cd729a3e-1c33-4cc1-9c31-0cd729a2e-1c33-0cd729a2e-1c33-0cd720a2e-1c360-0cd729a2e-1c360-0cd729a2e-1c360-0cd729a2e-1c360-0cd729a2e-1c36$ 

#### » Notes

#### » Ports and Instances

There are some notes to consider when connecting Instances to networks using Ports. Please see the opentelekomcloud\_compute\_instance\_v2 documentation for further documentation.

## » opentelekomcloud\_networking\_router\_interface\_v2

Manages a V2 router interface resource within OpenTelekomCloud.

#### » Example Usage

#### » Argument Reference

The following arguments are supported:

• 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.

The following attributes are exported:

- router id See Argument Reference above.
- subnet\_id See Argument Reference above.
- port\_id See Argument Reference above.

## » opentelekomcloud\_networking\_router\_route\_v2

Creates a routing entry on a OpenTelekomCloud V2 router.

```
resource "opentelekomcloud_networking_router_v2" "router_1" {
                = "router_1"
  admin_state_up = "true"
}
resource "opentelekomcloud_networking_network_v2" "network_1" {
                = "network_1"
  admin_state_up = "true"
resource "opentelekomcloud_networking_subnet_v2" "subnet_1" {
 network id = "${opentelekomcloud networking network v2.network 1.id}"
           = "192.168.199.0/24"
  ip\_version = 4
}
resource "opentelekomcloud_networking_router_interface_v2" "int_1" {
 router_id = "${opentelekomcloud_networking_router_v2.router_1.id}"
  subnet_id = "${opentelekomcloud_networking_subnet_v2.subnet_1.id}"
}
resource "opentelekomcloud_networking_router_route_v2" "router_route_1" {
                   = ["opentelekomcloud_networking_router_interface_v2.int_1"]
```

```
router_id = "${opentelekomcloud_networking_router_v2.router_1.id}"
destination_cidr = "10.0.1.0/24"
next_hop = "192.168.199.254"
}
```

The following arguments are supported:

- 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:

- 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 opentelekomcloud\_networking\_router\_route\_v2 resource creation time. You can ensure that by explicitly specifying a dependency on the opentelekomcloud\_networking\_router\_interface\_v2 resource that connects the next hop to the router, as in the example above.

# » opentelekomcloud networking router v2

Manages a V2 router resource within OpenTelekomCloud. The router is the top-level resource for the VPC within OpenTelekomCloud.

```
external_gateway = "f67f0d72-0ddf-11e4-9d95-e1f29f417e2f"
}
```

The following arguments are supported:

- 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\_gateway (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 an existing router.
- enable\_snat (Optional) Enable Source NAT for the router. Valid values are "true" or "false". An external\_gateway has to be set in order to set this property. Changing this updates the enable\_snat 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.

#### » Attributes Reference

The following attributes are exported:

- id ID of the router.
- name See Argument Reference above.
- admin\_state\_up See Argument Reference above.
- external\_gateway See Argument Reference above.
- enable\_snat See Argument Reference above.
- tenant id See Argument Reference above.
- value\_specs See Argument Reference above.

## » opentelekomcloud\_networking\_subnet\_v2

Manages a V2 Neutron subnet resource within OpenTelekomCloud.

#### » Example Usage

#### » Argument Reference

- 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. Acceptable values are "true" and "false". Changing this value enables or disables the DHCP capabilities of the existing subnet. Defaults to 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:

- 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 opentelekomcloud\_networking\_subnet\_v2.subnet\_1 da4faf16-5546-41e4-8330-40

## » opentelekomcloud\_networking\_secgroup\_v2

Manages a V2 neutron security group resource within OpenTelekomCloud. Unlike Nova security groups, neutron separates the group from the rules and also allows an admin to target a specific tenant id.

#### » Example Usage

#### » Argument Reference

The following arguments are supported:

- 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:

- name See Argument Reference above.
- description See Argument Reference above.
- tenant\_id See Argument Reference above.

#### » Default Security Group Rules

In most cases, OpenTelekomCloud 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 "opentelekomcloud_networking_secgroup_rule_v2" "secgroup_rule_v4" {
    direction = "egress"
    ethertype = "IPv4"
    security_group_id = "${opentelekomcloud_networking_secgroup_v2.secgroup.id}"
}

resource "opentelekomcloud_networking_secgroup_rule_v2" "secgroup_rule_v6" {
    direction = "egress"
    ethertype = "IPv6"
    security_group_id = "${opentelekomcloud_networking_secgroup_v2.secgroup.id}"
}
```

Please note that this behavior may differ depending on the configuration of the OpenTelekomCloud cloud. The above illustrates the current default Neutron behavior. Some OpenTelekomCloud 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 opentelekomcloud\_networking\_secgroup\_v2.secgroup\_1 38809219-5e8a-4852-913

# $\ \ \, \text{ ``opentelekomcloud}\_\text{networking}\_\text{secgroup}\_\text{rule}\_\text{v2}$

Manages a V2 neutron security group rule resource within OpenTelekomCloud. Unlike Nova security groups, neutron separates the group from the rules and also allows an admin to target a specific tenant\_id.

```
remote_ip_prefix = "0.0.0.0/0"
security_group_id = "${opentelekomcloud_networking_secgroup_v2.secgroup_1.id}"
}
```

- 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 OpenTelekomCloud 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 OpenTelekomCloud 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.

The following attributes are exported:

- 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 opentelekomcloud\_networking\_secgroup\_rule\_v2.secgroup\_rule\_1 aeb68ee3-6e9

# » opentelekomcloud\_vpc\_v1

Manages a VPC resource within OpenTelekomCloud.

```
variable "vpc_name" {
```

```
default = "opentelekomcloud_vpc"
}

variable "vpc_cidr" {
  default = "192.168.0.0/16"
}

resource "opentelekomcloud_vpc_v1" "vpc_v1" {
  name = "${var.vpc_name}"
  cidr = "${var.vpc_cidr}"
}
```

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.
- name (Required) The name of the VPC. The name must be unique for a tenant. The value is a string of no more than 64 characters and can contain digits, letters, underscores (\_), and hyphens (-). Changing this updates the name of the existing VPC.

#### » Attributes Reference

The following attributes are exported:

- id ID of the VPC.
- name See Argument Reference above.
- cidr See Argument Reference above.
- status The current status of the desired VPC. Can be either CRE-ATING, OK, DOWN, PENDING\_UPDATE, PENDING\_DELETE, or ERROR.
- shared Specifies whether the cross-tenant sharing is supported.

#### » Import

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

\$ terraform import opentelekomcloud\_vpc\_v1.vpc\_v1 7117d38e-4c8f-4624-a505-bd96b97d024c

## » opentelekomcloud\_vpc\_subnet\_v1

Provides an VPC subnet resource.

## » Example Usage

```
resource "opentelekomcloud_vpc_v1" "vpc_v1" {
   name = "${var.vpc_name}"
   cidr = "${var.vpc_cidr}"
}

resource "opentelekomcloud_vpc_subnet_v1" "subnet_v1" {
   name = "${var.subnet_name}"
   cidr = "${var.subnet_cidr}"
   gateway_ip = "${var.subnet_gateway_ip}"
   vpc_id = "${opentelekomcloud_vpc_v1.vpc_v1.id}"
}
```

## » Argument Reference

- name (Required) The subnet name. The value is a string of 1 to 64 characters that can contain letters, digits, underscores (\_), and hyphens (-).
- cidr (Required) Specifies the network segment on which the subnet resides. The value must be in CIDR format. The value must be within the CIDR block of the VPC. The subnet mask cannot be greater than 28. Changing this creates a new Subnet.
- gateway\_ip (Required) Specifies the gateway of the subnet. The value must be a valid IP address. The value must be an IP address in the subnet segment. Changing this creates a new Subnet.
- vpc\_id (Required) Specifies the ID of the VPC to which the subnet belongs. Changing this creates a new Subnet.
- dhcp\_enable (Optional) Specifies whether the DHCP function is enabled for the subnet. The value can be true or false. If this parameter is left blank, it is set to true by default.
- primary\_dns (Optional) Specifies the IP address of DNS server 1 on the subnet. The value must be a valid IP address.

- secondary\_dns (Optional) Specifies the IP address of DNS server 2 on the subnet. The value must be a valid IP address.
- dns\_list (Optional) Specifies the DNS server address list of a subnet. This field is required if you need to use more than two DNS servers. This parameter value is the superset of both DNS server address 1 and DNS server address 2.
- availability\_zone (Optional) Identifies the availability zone (AZ) to which the subnet belongs. The value must be an existing AZ in the system. Changing this creates a new Subnet.

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 opentelekomcloud\_vpc\_subnet\_v1 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

# $\ \ \, \text{ opentelekomcloud\_vpc\_route\_v2}$

Provides a resource to create a route.

```
resource "opentelekomcloud_vpc_route_v2" "vpc_route" {
  type = "peering"
  nexthop = "${var.nexthop}"
  destination = "192.168.0.0/16"
  vpc_id = "${var.vpc_id}"
}
```

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.

# » opentelekomcloud vpc peering connection v2

Provides a resource to manage a VPC Peering Connection resource.

Note: For cross-tenant (requester's tenant differs from the accepter's tenant) VPC Peering Connections, use the opentelekomcloud\_vpc\_peering\_connection\_v2 resource to manage the requester's side of the connection and use the opentelekomcloud\_vpc\_peering\_connection\_accepter\_v2 resource to manage the accepter's side of the connection.

```
resource "opentelekomcloud_vpc_peering_connection_v2" "peering" {
  name = "${var.peer_conn_name}"
  vpc_id = "${var.vpc_id}"
  peer_vpc_id = "${var.accepter_vpc_id}"
}
```

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 accepter tenant. Changing this creates a new VPC peering connection.
- peer\_tenant\_id (Optional) Specified the Tenant Id of the accepter tenant. Changing this creates a new VPC peering connection.

#### » 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.

 $\label{lem:connection_v2.test_connection} \$ terraform import opentelekomcloud\_vpc\_peering\_connection\_v2.test\_connection \\ 22b76469-08e3-4937-8c1d-7aad34892be1$ 

# $\ \ \, \text{ ``opentelekomcloud\_vpc\_peering\_connection\_accepter\_v2}$

Provides a resource to manage the accepter's side of a VPC Peering Connection.

When a cross-tenant (requester's tenant differs from the accepter's tenant) VPC Peering Connection is created, a VPC Peering Connection

resource is automatically created in the accepter's account. The requester can use the opentelekomcloud\_vpc\_peering\_connection\_v2 resource to manage its side of the connection and the accepter can use the opentelekomcloud\_vpc\_peering\_connection\_accepter\_v2 resource to "adopt" its side of the connection into management.

```
provider "opentelekomcloud" {
    alias = "main"
    user name = "${var.username}"
    domain_name = "${var.domain_name}"
   password = "${var.password}"
    auth_url = "${var.auth_url}"
    tenant_id = "${var.tenant_id}"
}
provider "opentelekomcloud" {
    alias = "peer"
    user_name = "${var.peer_username}"
    domain_name = "${var.peer_domain_name}"
    password = "${var.peer_password}"
    auth_url = "${var.peer_auth_url}"
    tenant_id = "${var.peer_tenant_id}"
}
resource "opentelekomcloud_vpc_v1" "vpc_main" {
    provider = "opentelekomcloud.main"
   name = "${var.vpc_name}"
    cidr = "${var.vpc_cidr}"
}
resource "opentelekomcloud_vpc_v1" "vpc_peer" {
    provider = "opentelekomcloud.peer"
    name = "${var.peer_vpc_name}"
    cidr = "${var.peer_vpc_cidr}"
}
# Requester's side of the connection.
resource "opentelekomcloud_vpc_peering_connection_v2" "peering" {
   provider = "opentelekomcloud.main"
   name = "${var.peer_name}"
    vpc_id = "${opentelekomcloud_vpc_v1.vpc_main.id}"
    peer_vpc_id = "${opentelekomcloud_vpc_v1.vpc_peer.id}"
   peer_tenant_id = "${var.tenant_id}"
```

```
# Accepter's side of the connection.
resource "opentelekomcloud_vpc_peering_connection_accepter_v2" "peer" {
    provider = "opentelekomcloud.peer"
    vpc_peering_connection_id = "${opentelekomcloud_vpc_peering_connection_v2.peering.id}"
    accept = true
}
```

The following arguments are supported:

- vpc\_peering\_connection\_id (Required) The VPC Peering Connection ID to manage. Changing this creates a new VPC peering connection accepter.
- accept (Optional)- Whether or not to accept the peering request. Defaults to false.

# » Removing opentelekomcloud\_vpc\_peering\_connection\_accepter\_v2 from your configuration

OpenTelekomCloud allows a cross-tenant VPC Peering Connection to be deleted from either the requester's or accepter's side. However, Terraform only allows the VPC Peering Connection to be deleted from the requester's side by removing the corresponding opentelekomcloud\_vpc\_peering\_connection\_v2 resource from your configuration. Removing a opentelekomcloud\_vpc\_peering\_connection\_accepter\_v2 resource from your configuration will remove it from your state file and management, but will not destroy the VPC Peering Connection.

#### » Attributes Reference

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

- name The VPC peering connection name.
- id The VPC peering connection ID.
- status The VPC peering connection status.
- vpc\_id The ID of requester VPC involved in a VPC peering connection.
- peer\_vpc\_id The VPC ID of the accepter tenant.

• peer\_tenant\_id - The Tenant Id of the accepter tenant.

## » opentelekomcloud\_networking\_vip\_v2

Manages a V2 vip resource within OpenTelekomCloud.

#### » Example Usage

```
resource "opentelekomcloud_networking_network_v2" "network_1" {
 name = "network_1"
  admin_state_up = "true"
}
resource "opentelekomcloud networking subnet v2" "subnet 1" {
 name = "subnet_1"
 cidr = "192.168.199.0/24"
 ip_version = 4
 network id = "${opentelekomcloud networking network v2.network 1.id}"
}
resource "opentelekomcloud_networking_router_interface_v2" "router_interface_1" {
 router_id = "${opentelekomcloud_networking_router_v2.router_1.id}"
  subnet_id = "${opentelekomcloud_networking_subnet_v2.subnet_1.id}"
}
resource "opentelekomcloud_networking_router_v2" "router_1" {
 name = "router_1"
  external_gateway = "0a2228f2-7f8a-45f1-8e09-9039e1d09975"
}
resource "opentelekomcloud networking vip v2" "vip 1" {
 network_id = "${opentelekomcloud_networking_network_v2.network_1.id}"
  subnet_id = "${opentelekomcloud_networking_subnet_v2.subnet_1.id}"
}
```

#### » Argument Reference

The following arguments are supported:

• network\_id - (Required) The ID of the network to attach the vip to. Changing this creates a new vip.

- subnet\_id (Required) Subnet in which to allocate IP address for this vip. Changing this creates a new vip.
- ip\_address (Optional) IP address desired in the subnet for this vip. If you don't specify ip\_address, an available IP address from the specified subnet will be allocated to this vip.
- name (Optional) A unique name for the vip.

The following attributes are exported:

- network id See Argument Reference above.
- subnet\_id See Argument Reference above.
- ip\_address See Argument Reference above.
- name See Argument Reference above.
- status The status of vip.
- id The ID of the vip.
- tenant\_id The tenant ID of the vip.
- device\_owner The device owner of the vip.

## » opentelekomcloud\_networking\_vip\_associate\_v2

Manages a V2 vip associate resource within OpenTelekomCloud.

```
resource "opentelekomcloud_networking_network_v2" "network_1" {
   name = "network_1"
   admin_state_up = "true"
}

resource "opentelekomcloud_networking_subnet_v2" "subnet_1" {
   name = "subnet_1"
   cidr = "192.168.199.0/24"
   ip_version = 4
   network_id = "${opentelekomcloud_networking_network_v2.network_1.id}"
}

resource "opentelekomcloud_networking_router_interface_v2" "router_interface_1" {
   router_id = "${opentelekomcloud_networking_router_v2.router_1.id}"
   subnet_id = "${opentelekomcloud_networking_subnet_v2.subnet_1.id}"
}
```

```
resource "opentelekomcloud_networking_router_v2" "router_1" {
 name = "router_1"
  external_gateway = "0a2228f2-7f8a-45f1-8e09-9039e1d09975"
}
resource "opentelekomcloud_networking_port_v2" "port_1" {
  name = "port_1"
  admin_state_up = "true"
 network_id = "${opentelekomcloud_networking_network_v2.network_1.id}"
 fixed_ip {
   subnet_id = "${opentelekomcloud_networking_subnet_v2.subnet_1.id}"
 }
}
resource "opentelekomcloud_compute_instance_v2" "instance_1" {
 name = "instance_1"
  security_groups = ["default"]
 network {
   port = "${opentelekomcloud_networking_port_v2.port_1.id}"
 }
}
resource "opentelekomcloud_networking_port_v2" "port_2" {
 name = "port_2"
  admin_state_up = "true"
 network_id = "${opentelekomcloud_networking_network_v2.network_1.id}"
 fixed_ip {
    subnet_id = "${opentelekomcloud_networking_subnet_v2.subnet_1.id}"
}
resource "opentelekomcloud_compute_instance_v2" "instance_2" {
 name = "instance_2"
 security_groups = ["default"]
 network {
   port = "${opentelekomcloud_networking_port_v2.port_1.id}"
 }
}
resource "opentelekomcloud_networking_vip_v2" "vip_1" {
  network_id = "${opentelekomcloud_networking_network_v2.network_1.id}"
```

```
subnet_id = "${opentelekomcloud_networking_subnet_v2.subnet_1.id}"
}

resource "opentelekomcloud_networking_vip_associate_v2" "vip_associate_1" {
    vip_id = "${opentelekomcloud_networking_vip_v2.vip_1.id}"
    port_ids = ["${opentelekomcloud_networking_port_v2.port_1.id}", "${opentelekomcloud_networking_port_v2.port_1.id}", "${opentelekomcloud_networking_port_v2.port_1.id}", "${opentelekomcloud_networking_port_v2.port_1.id}"
```

The following arguments are supported:

- vip\_id (Required) The ID of vip to attach the port to. Changing this creates a new vip associate.
- port\_ids (Required) An array of one or more IDs of the ports to attach the vip to. Changing this creates a new vip associate.

#### » Attributes Reference

The following attributes are exported:

- vip\_id See Argument Reference above.
- port\_ids See Argument Reference above.
- vip\_subnet\_id The ID of the subnet this vip connects to.
- vip\_ip\_address The IP address in the subnet for this vip.

# » opentelekomcloud\_lb\_loadbalancer\_v2

Manages a V2 loadbalancer resource within OpenTelekomCloud.

## » Example Usage

```
resource "opentelekomcloud_lb_loadbalancer_v2" "lb_1" {
   vip_subnet_id = "d9415786-5f1a-428b-b35f-2f1523e146d2"
}
```

#### » Argument Reference

- vip\_subnet\_id (Required) The network on which to allocate the Load-balancer's address. A tenant can only create Loadbalancers on networks authorized by policy (e.g. networks that belong to them or networks that are shared). Changing this creates a new loadbalancer.
- name (Optional) Human-readable name for the Loadbalancer. Does not have to be unique.
- description (Optional) Human-readable description for the 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 only true (UP).
- loadbalancer\_provider (Optional) The name of the provider. Changing this creates a new loadbalancer.
- security\_group\_ids (Optional) A list of security group IDs to apply to the loadbalancer. The security groups must be specified by ID and not name (as opposed to how they are configured with the Compute Instance).

The following attributes are exported:

- 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.
- loadbalancer\_provider See Argument Reference above.
- security\_group\_ids See Argument Reference above.
- vip\_port\_id The Port ID of the Load Balancer IP.

# » opentelekomcloud\_lb\_listener\_v2

Manages a V2 listener resource within OpenTelekomCloud.

#### » Example Usage

### » Argument Reference

The following arguments are supported:

- 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.
- 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.
- default\_tls\_container\_ref See Argument Reference above.
- sni\_container\_refs See Argument Reference above.
- admin\_state\_up See Argument Reference above.

## » opentelekomcloud\_lb\_pool\_v2

Manages a V2 pool resource within OpenTelekomCloud.

#### » Example Usage

```
resource "opentelekomcloud_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

- tenant\_id (Optional) Required for admins. The UUID of the tenant who owns the pool. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new pool.
- name (Optional) Human-readable name for the pool.
- description (Optional) Human-readable description for the pool.
- protocol = (Required) The protocol can either be TCP, HTTP or HTTPS. Changing this creates a new pool.
- loadbalancer\_id (Optional) The load balancer on which to provision this pool. Changing this creates a new pool. Note: One of LoadbalancerID or ListenerID must be provided.

- listener\_id (Optional) The Listener on which the members of the pool will be associated with. Changing this creates a new pool. Note: One of LoadbalancerID or ListenerID must be provided.
- 1b\_method (Required) The load balancing algorithm to distribute traffic to the pool's members. Must be one of ROUND\_ROBIN, LEAST CONNECTIONS, or SOURCE IP.
- persistence Omit this field to prevent session persistence. Indicates whether connections in the same session will be processed by the same Pool member or not. Changing this creates a new pool.
- admin\_state\_up (Optional) The administrative state of the pool. A valid value is true (UP) or false (DOWN).

The persistence argument supports:

- type (Required) The type of persistence mode. The current specification supports SOURCE\_IP, HTTP\_COOKIE, and APP\_COOKIE.
- cookie\_name (Optional) The name of the cookie if persistence mode is set appropriately. Required if type = APP\_COOKIE.

#### » Attributes Reference

The following attributes are exported:

- id The unique ID for the pool.
- tenant\_id See Argument Reference above.
- name See Argument Reference above.
- description See Argument Reference above.
- protocol See Argument Reference above.
- 1b method See Argument Reference above.
- persistence See Argument Reference above.
- admin\_state\_up See Argument Reference above.

# » opentelekomcloud\_lb\_member\_v2

Manages a V2 member resource within OpenTelekomCloud.

```
subnet_id = SUBNET_ID
}
```

The following arguments are supported:

- 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.

## » opentelekomcloud\_lb\_monitor\_v2

Manages a V2 monitor resource within OpenTelekomCloud.

#### » Example Usage

#### » Argument Reference

- pool\_id (Required) The id of the pool that this monitor will be assigned to.
- name (Optional) The Name of the Monitor.
- tenant\_id (Optional) Required for admins. The UUID of the tenant who owns the monitor. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new monitor.
- type (Required) The type of probe, which is PING, TCP, HTTP, or HTTPS, that is sent by the load balancer to verify the member state. Changing this creates a new monitor.
- delay (Required) The time, in seconds, between sending probes to members.
- timeout (Required) Maximum number of seconds for a monitor to wait for a ping reply before it times out. The value must be less than the delay value.
- max\_retries (Required) Number of permissible ping failures before changing the member's status to INACTIVE. Must be a number between 1 and 10..
- url\_path (Optional) Required for HTTP(S) types. URI path that will be accessed if monitor type is HTTP or HTTPS.
- http\_method (Optional) Required for HTTP(S) types. The HTTP method used for requests by the monitor. If this attribute is not specified, it defaults to "GET".

- expected\_codes (Optional) Required for HTTP(S) types. Expected HTTP codes for a passing HTTP(S) monitor. You can either specify a single status like "200", or a range like "200-202".
- admin\_state\_up (Optional) The administrative state of the monitor. A valid value is true (UP) or false (DOWN).

The following attributes are exported:

- id The unique ID for the monitor.
- tenant\_id See Argument Reference above.
- type See Argument Reference above.
- delay See Argument Reference above.
- timeout See Argument Reference above.
- max\_retries See Argument Reference above.
- url\_path See Argument Reference above.
- http\_method See Argument Reference above.
- expected\_codes See Argument Reference above.
- admin\_state\_up See Argument Reference above.

# ightarrow opentelekomcloud\_fw\_firewall\_group\_v2

Manages a v1 firewall group resource within OpenTelekomCloud.

```
resource "opentelekomcloud_fw_rule_v2" "rule_1" {
                 = "my-rule-1"
 description = "drop TELNET traffic"
                 = "deny"
 action
 protocol = "tcp"
 destination_port = "23"
  enabled
                 = "true"
}
resource "opentelekomcloud_fw_rule_v2" "rule_2" {
                 = "my-rule-2"
 name
 description
                = "drop NTP traffic"
                 = "deny"
 action
 protocol
                 = "udp"
 destination_port = "123"
```

- 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.

The following attributes are exported:

- 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 opentelekomcloud\_fw\_firewall\_group\_v2.firewall\_group\_1 c9e39fb2-ce20-46c8

# » opentelekomcloud\_fw\_policy\_v2

Manages a v1 firewall policy resource within OpenTelekomCloud.

```
resource "opentelekomcloud_fw_rule_v2" "rule_1" {
 name
                = "my-rule-1"
 description = "drop TELNET traffic"
 action = "deny" protocol = "tcp"
 destination_port = "23"
            = "true"
  enabled
}
resource "opentelekomcloud_fw_rule_v2" "rule_2" {
 name
                = "my-rule-2"
 description = "drop NTP traffic"
               = "deny"
 action
           = "udp"
 protocol
 destination_port = "123"
  enabled = "false"
resource "opentelekomcloud_fw_policy_v2" "policy_1" {
 name = "my-policy"
```

The following arguments are supported:

- 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.
- value\_specs (Optional) Map of additional options.

#### » Attributes Reference

The following attributes are exported:

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

#### » Import

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

\$ terraform import opentelekomcloud\_fw\_policy\_v2.policy\_1 07f422e6-c596-474b-8b94-fe2c12506e

## » opentelekomcloud fw rule v2

Manages a v2 firewall rule resource within OpenTelekomCloud.

#### » Example Usage

## » Argument Reference

- 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.

The following attributes are exported:

- 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 opentelekomcloud\_fw\_rule\_v2.rule\_1 8dbc0c28-e49c-463f-b712-5c5d1bbac327

# » opentelekomcloud\_rds\_instance\_v1

Manages rds instance resource within OpenTelekomCloud

## » Example Usage: Creating a PostgreSQL RDS instance

```
data "opentelekomcloud_rds_flavors_v1" "flavor" {
    datastore_name = "PostgreSQL"
```

```
datastore_version = "9.5.5"
    speccode = "rds.pg.s1.large.ha"
}
resource "opentelekomcloud_compute_secgroup_v2" "secgrp_rds" {
             = "secgrp-rds-instance"
  description = "Rds Security Group"
}
resource "opentelekomcloud_rds_instance_v1" "instance" {
 name = "rds-instance"
 datastore {
   type = "PostgreSQL"
   version = "9.5.5"
 flavorref = "${data.opentelekomcloud_rds_flavors_v1.flavor.id}"
 volume {
   type = "COMMON"
    size = 200
 availabilityzone = "eu-de-01"
 vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
 nics {
    subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
 securitygroup {
    id = "${opentelekomcloud_compute_secgroup_v2.secgrp_rds.id}"
  dbport = "8635"
  backupstrategy = {
    starttime = "04:00:00"
   keepdays = 4
 dbrtpd = "Huangwei!120521"
 ha = {
    enable = true
   replicationmode = "async"
 depends_on = ["opentelekomcloud_compute_secgroup_v2.secgrp_rds"]
}
» Example Usage: Creating a SQLServer RDS instance
data "opentelekomcloud_rds_flavors_v1" "flavor" {
    datastore_name = "SQLServer"
```

```
datastore_version = "2014 SP2 SE"
    speccode = "rds.mssql.s1.2xlarge"
}
resource "opentelekomcloud_compute_secgroup_v2" "secgrp_rds" {
             = "secgrp-rds-instance"
  description = "Rds Security Group"
}
resource "opentelekomcloud_rds_instance_v1" "instance" {
 name = "rds-instance"
 datastore {
   type = "SQLServer"
   version = "2014 SP2 SE"
 flavorref = "${data.opentelekomcloud_rds_flavors_v1.flavor.id}"
 volume {
   type = "COMMON"
    size = 200
 availabilityzone = "eu-de-01"
 vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
 nics {
    subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
 securitygroup {
    id = "${opentelekomcloud_compute_secgroup_v2.secgrp_rds.id}"
  dbport = "8635"
  backupstrategy = {
    starttime = "04:00:00"
   keepdays = 4
 }
 dbrtpd = "Huangwei!120521"
  depends_on = ["opentelekomcloud_compute_secgroup_v2.secgrp_rds"]
}
» Example Usage: Creating a MySQL RDS instance
data "opentelekomcloud_rds_flavors_v1" "flavor" {
    datastore_name = "MySQL"
   datastore_version = "5.6.33"
    speccode = "rds.mysql.s1.medium"
}
```

```
resource "opentelekomcloud_compute_secgroup_v2" "secgrp_rds" {
              = "secgrp-rds-instance"
  description = "Rds Security Group"
}
resource "opentelekomcloud_rds_instance_v1" "instance" {
 name = "rds-instance"
  datastore {
   type = "MySQL"
   version = "5.6.33"
 flavorref = "${data.opentelekomcloud_rds_flavors_v1.flavor.id}"
 volume {
   type = "COMMON"
   size = 200
  availabilityzone = "eu-de-01"
 vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
 nics {
    subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
  }
  securitygroup {
    id = "${opentelekomcloud_compute_secgroup_v2.secgrp_rds.id}"
  dbport = "8635"
 backupstrategy = {
    starttime = "04:00:00"
   keepdays = 4
 dbrtpd = "Huangwei!120521"
 ha = {
    enable = true
    replicationmode = "async"
  depends_on = ["opentelekomcloud_compute_secgroup_v2.secgrp_rds"]
}
```

- name (Required) Specifies the DB instance name. The DB instance name of the same type is unique in the same tenant. The changes of the instance name will be suppressed in HA scenario.
- 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). If you want to enable ha for the rds instance, a flavor with ha speccode is required.
- volume (Required) Specifies the volume information. The structure is described below.
- availabilityzone (Required) Specifies the ID of the AZ.
- vpc (Required) Specifies the VPC ID. For details about how to obtain this parameter value, see section "Virtual Private Cloud" in the Virtual Private Cloud API Reference.
- nics (Required) Specifies the nics information. For details about how to obtain this parameter value, see section "Subnet" in the Virtual Private Cloud API Reference. The structure is described below.
- securitygroup (Required) Specifies the security group which the RDS DB instance belongs to. The structure is described below.
- dbport (Optional) Specifies the database port number.
- backupstrategy (Optional) Specifies the advanced backup policy. The structure is described below.
- dbrtpd (Required) Specifies the password for user root of the database.
- ha (Optional) Specifies the parameters configured on HA and is used when creating HA DB instances. The structure is described below. NO-TICE: RDS for Microsoft SQL Server does not support creating HA DB instances and this parameter is not involved.

### The datastore block supports:

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

type	version
PostgreSQL	9.5.5
	9.6.3
	9.6.5

type	version
MySQL	5.6.33
	5.6.30
	5.6.34
	5.6.35
	5.6.36
	5.7.17
	5.7.20
${\bf SQLServer}$	$2014~\mathrm{SP2}~\mathrm{SE}$

### The volume block supports:

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

#### The nics block supports:

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

#### The security group block supports:

• id - (Required) Specifies the ID obtained from the 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:

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

### » Attributes Reference

The following attributes can be updated:

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

# $\ \ \, \text{ ``opentelekomcloud\_s3\_bucket}$

Provides a S3 bucket resource.

### » Example Usage

### » Private Bucket w/ Tags

```
resource "opentelekomcloud_s3_bucket" "b" {
  bucket = "my-tf-test-bucket"
  acl = "private"
```

```
tags {
                = "My bucket"
    Name
    Environment = "Dev"
}
» Static Website Hosting
resource "opentelekomcloud_s3_bucket" "b" {
  bucket = "s3-website-test.hashicorp.com"
       = "public-read"
  policy = "${file("policy.json")}"
  website {
    index_document = "index.html"
    error_document = "error.html"
    routing_rules = <<EOF
[{
    "Condition": {
        "KeyPrefixEquals": "docs/"
    },
    "Redirect": {
        "ReplaceKeyPrefixWith": "documents/"
    }
}]
EOF
  }
}
» Using CORS
resource "opentelekomcloud_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 "opentelekomcloud_s3_bucket" "b" {
  bucket = "my-tf-test-bucket"
      = "private"
  acl
  versioning {
    enabled = true
}
» Enable Logging
resource "opentelekomcloud_s3_bucket" "log_bucket" {
  bucket = "my-tf-log-bucket"
       = "log-delivery-write"
}
resource "opentelekomcloud_s3_bucket" "b" {
  bucket = "my-tf-test-bucket"
      = "private"
  logging {
    target_bucket = "${opentelekomcloud_s3_bucket.log_bucket.id}"
    target_prefix = "log/"
  }
}
» Using object lifecycle
resource "opentelekomcloud_s3_bucket" "bucket" {
  bucket = "my-bucket"
        = "private"
  acl
  lifecycle_rule {
    id = "log"
    enabled = true
    prefix = "log/"
    expiration {
     days = 90
```

```
}
 lifecycle_rule {
           = "tmp"
   prefix = "tmp/"
    enabled = true
    expiration {
      date = "2016-01-12"
 }
}
resource "opentelekomcloud_s3_bucket" "versioning_bucket" {
 bucket = "my-versioning-bucket"
         = "private"
  acl
 versioning {
    enabled = true
 lifecycle_rule {
    prefix = "config/"
    enabled = true
}
```

- 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.
- tags (Optional) A mapping of tags to assign to the bucket.

- force\_destroy (Optional, Default:false ) A boolean that indicates all objects should be deleted from the bucket so that the bucket can be destroyed without error. These objects are *not* recoverable.
- 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). 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\_rule 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.

#### » 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.
- 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 opentelekomcloud\_s3\_bucket.bucket bucket-name

# » opentelekomcloud\_s3\_bucket\_object

Provides a S3 bucket object resource.

# » Example Usage

» Uploading a file to a bucket

```
resource "opentelekomcloud_s3_bucket_object" "object" {
  bucket = "your_bucket_name"
  key = "new_object_key"
  source = "path/to/file"
  etag = "${md5(file("path/to/file"))}"
}
resource "opentelekomcloud_s3_bucket" "examplebucket" { bucket = "examplebuckettftest" acl = "private" }
resource "opentelekomcloud_s3_bucket_object" "examplebucket_object" {
  key = "someobject" bucket = "${opentelekomcloud_s3_bucket.examplebucket.bucket}"
  source = "index.html" } "'
```

### » Server Side Encryption with S3 Default Master Key

```
resource "opentelekomcloud_s3_bucket" "examplebucket" {
  bucket = "examplebuckettftest"
  acl = "private"
}

resource "opentelekomcloud_s3_bucket_object" "examplebucket_object" {
  key = "someobject"
  bucket = "${opentelekomcloud_s3_bucket.examplebucket.bucket}"
  source = "index.html"
```

```
server_side_encryption = "aws:kms"
}
```

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

The following arguments are supported:

- bucket (Required) The name of the bucket to put the file in.
- key (Required) The name of the object once it is in the bucket.
- source (Required) The path to the source file being uploaded to the bucket.
- content (Required unless source given) The literal content being uploaded to the bucket.
- acl (Optional) The canned ACL to apply. Defaults to "private".
- cache\_control (Optional) Specifies caching behavior along the request/reply chain Read w3c cache\_control for further details.
- content\_disposition (Optional) Specifies presentational information for the object. Read wc3 content disposition for further information.
- content\_encoding (Optional) Specifies what content encodings have been applied to the object and thus what decoding mechanisms must be applied to obtain the media-type referenced by the Content-Type header field. Read w3c content encoding for further information.
- content\_language (Optional) The language the content is in e.g. en-US or en-GB.
- content\_type (Optional) A standard MIME type describing the format of the object data, e.g. application/octet-stream. All Valid MIME Types are valid for this input.
- website\_redirect (Optional) Specifies a target URL for website redirect.
- etag (Optional) Used to trigger updates. The only meaningful value is \${md5(file("path/to/file"))}. This attribute is not compatible with kms\_key\_id.
- server\_side\_encryption (Optional) Specifies server-side encryption of the object in S3. Valid values are "AES256" and "aws:kms".

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

#### » Attributes Reference

The following attributes are exported

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

# » opentelekomcloud\_s3\_bucket\_policy

Attaches a policy to an S3 bucket resource.

## » Example Usage

### » Basic Usage

```
resource "opentelekomcloud_s3_bucket" "b" {
 bucket = "my_tf_test_bucket"
}
resource "opentelekomcloud_s3_bucket_policy" "b" {
 bucket = "${opentelekomcloud_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
```

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.

# » opentelekomcloud\_kms\_key\_v1

Manages a V1 key resource within KMS.

# » Example Usage

### » Argument Reference

- 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 OpenTelekomCloud 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. Defaults to 7. 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.
- origin Origin of a key. The default value is kms.
- 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 opentelekomcloud\_kms\_key\_v1.key\_1 7056d636-ac60-4663-8a6c-82d3c32c1c64

# » opentelekomcloud smn subscription v2

Manages a V2 subscription resource within OpenTelekomCloud.

### » Example Usage

```
resource "opentelekomcloud_smn_topic_v2" "topic_1" {
             = "topic 1"
 name
                 = "The display name of topic_1"
  display_name
resource "opentelekomcloud_smn_subscription_v2" "subscription_1" {
               = "${opentelekomcloud_smn_topic_v2.topic_1.id}"
  topic_urn
                 = "mailtest@gmail.com"
  endpoint
                 = "email"
 protocol
 remark
                 = "O&M"
}
resource "opentelekomcloud_smn_subscription_v2" "subscription_2" {
```

```
topic_urn = "${opentelekomcloud_smn_topic_v2.topic_1.id}"
endpoint = "13600000000"
protocol = "sms"
remark = "0&M"
}
```

The following arguments are supported:

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

### » Attributes Reference

The following attributes are exported:

- topic\_urn See Argument Reference above.
- endpoint See Argument Reference above.
- protocol See Argument Reference above.
- remark See Argument Reference above.
- subscription\_urn See Argument Reference above.
- owner See Argument Reference above.
- status See Argument Reference above.

# » opentelekomcloud\_smn\_topic\_v2

Manages a V2 topic resource within OpenTelekomCloud.

### » Example Usage

### » Argument Reference

The following arguments are supported:

- name (Required) The name of the topic to be created.
- display\_name (Optional) Topic display name, which is presented as the name of the email sender in an email message.

#### » Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- display\_name See Argument Reference above.
- topic\_urn Resource identifier of a topic, which is unique.
- push\_policy 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 Time when the topic was created.
- update\_time Time when the topic was updated.

# » opentelekomcloud\_vpc\_eip\_v1

Manages a V1 EIP resource within OpenTelekomCloud VPC.

### » Example Usage

```
resource "opentelekomcloud_vpc_eip_v1" "eip_1" {
   publicip {
    type = "5_bgp"
```

```
}
bandwidth {
  name = "test"
  size = 8
  share_type = "PER"
  charge_mode = "traffic"
}
```

The following arguments are supported:

- 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.
- share\_type (Required) Whether the bandwidth is shared or exclusive. Changing this creates a new eip.
- charge\_mode (Optional) This is a reserved field. If the system supports charging by traffic and this field is specified, then you are charged by traffic for elastic IP addresses. Changing this creates a new eip.

### » Attributes Reference

The following attributes are exported:

- publicip/type See Argument Reference above.
- publicip/ip\_address See Argument Reference above.
- publicip/port\_id See Argument Reference above.

- bandwidth/name See Argument Reference above.
- bandwidth/size See Argument Reference above.
- bandwidth/share\_type See Argument Reference above.
- bandwidth/charge\_mode See Argument Reference above.

### » Import

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

\$ terraform import opentelekomcloud\_vpc\_eip\_v1.eip\_1 2c7f39f3-702b-48d1-940c-b50384177ee1

# » opentelekomcloud\_rts\_stack\_v1

Provides an OpenTelekomCloud Stack.

# » Example Usage

```
variable "name" { }
 variable "network_id" { }
 variable "instance_type" { }
 variable "image_id" { }
resource "opentelekomcloud_rts_stack_v1" "mystack" {
  name = "${var.name}"
  disable_rollback = true
  timeout_mins=60
 parameters = {
      "network id" = "${var.network id}"
      "instance_type" = "${var.instance_type}"
      "image_id" = "${var.image_id}"
    }
 template_body = <<STACK</pre>
    "heat_template_version": "2016-04-08",
    "description": "Simple template to deploy",
    "parameters": {
        "image_id": {
            "type": "string",
            "description": "Image to be used for compute instance",
            "label": "Image ID"
        },
        "network_id": {
            "type": "string",
```

```
"description": "The Network to be used",
            "label": "Network UUID"
        },
        "instance_type": {
            "type": "string",
            "description": "Type of instance (Flavor) to be used",
            "label": "Instance Type"
        }
    },
    "resources": {
        "my_instance": {
            "type": "OS::Nova::Server",
            "properties": {
                "image": {
                    "get_param": "image_id"
                },
                "flavor": {
                    "get_param": "instance_type"
                },
                "networks": [{
                    "network": {
                        "get_param": "network_id"
                }]
            }
        }
    },
    "outputs": {
      "InstanceIP":{
        "description": "Instance IP",
        "value": { "get_attr": ["my_instance", "first_address"] }
      }
    }
}
STACK
}
```

- name (Required) A unique name for the stack. The value must meet the regular expression rule (^[a-zA-Z][a-zA-Z0-9\_.-]{0,254}\$). Changing this creates a new stack.
- template\_body (Optional; Required if template\_url is empty) Struc-

ture containing the template body. The template content must use the yaml syntax.

- template\_url (Optional; Required if template\_body is empty) Location of a file containing the template body.
- environment (Optional) Tthe environment information about the stack.
- files (Optional) Files used in the environment.
- parameters (Optional) A list of Parameter structures that specify input parameters for the stack.
- disable\_rollback (Optional) Set to true to disable rollback of the stack if stack creation failed.
- timeout mins (Optional) Specifies the timeout duration.

### » Attributes Reference

In addition to all arguments above, 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 opentelekomcloud\_rts\_stack\_v1.mystack rts-stack

#### » Timeouts

opentelekomcloud\_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.

# » opentelekomcloud\_rts\_software\_config\_v1

Provides an RTS software config resource.

# » Example Usage

```
variable "config_name" {}

resource "opentelekomcloud_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.
- input\_values (Optional) A list of software configuration inputs.
- output\_values (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 opentelekomcloud\_rts\_software\_config\_v1 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

# » opentelekomcloud\_rts\_software\_deployment\_v1

Provides an RTS software deployment resource.

# » Example Usage

```
variable "config_id" {}

variable "server_id" {}

resource "opentelekomcloud_rts_software_deployment_v1" "mydeployment" {
   config_id = "${var.config_id}"
   server_id = "${var.server_id}"
}
```

# » Argument Reference

The following arguments are supported:

- config\_id (Required) The id of the software configuration resource running on an instance.
- server\_id (Required) The id of the instance.
- status (Optional) The current status of deployment resources.
- action (Optional) The stack action that triggers this deployment resource.
- input\_values (Optional) The input data stored in the form of a key-value pair.
- output\_values (Optional) The output data stored in the form of a key-value pair.
- status\_reason (Optional) The cause of the current deployment resource status.
- tenant\_id (Optional) The id of the authenticated tenant who can perform operations on the deployment resources.

### » Attributes Reference

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

• id - The id of the software deployment.

# » Import

Software deployment can be imported using the deployment id, e.g. \$\text{terraform import opentelekomcloud\_rts\_software\_deployment\_v1}\$ 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

# » opentelekomcloud\_sfs\_file\_system\_v2

Provides an Shared File System (SFS) resource.

# » Example Usage

```
variable "share_name" { }

variable "share_description" { }

variable "vpc_id" { }

resource "opentelekomcloud_sfs_file_system_v2" "share-file"
{
    size = 50
    name = "${var.share_name}"
    access_to = "${var.vpc_id}"
    access_level = "rw"
    description = "${var.share_description}"
    metadata = {
        "type"="nfs"
    }
}
```

# » Argument Reference

- 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 opentelekomcloud\_sfs\_file\_system\_v2 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

# » Resource: opentelekomcloud\_deh\_host\_v1

Allocates a Dedicated Host to a tenant and set minimum required parameters for this Dedicated Host.

## » Example Usage

```
resource "opentelekomcloud_deh_host_v1" "deh_host"
{
   name = "high_performance_deh"
   auto_placement = "on"
   availability_zone = "eu-de-02"
   host_type = "h1"
}
```

### » Argument Reference

The following arguments are supported:

- name (Required) The name of the Dedicated Host.
- auto\_placement (Optional) Allows a instance to be automatically placed onto the available Dedicated Hosts. The default value is **on**.
- availability\_zone (Required) The Availability Zone to which the Dedicated Host belongs. Changing this parameter creates a new resource.
- host\_type (Required) The Dedicated Host type. Expected values are h1, general and d1. Changing this parameter creates a new resource.

### » Attributes Reference

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

- status Specifies the Dedicated Host status.
- available\_vcpus The number of available vCPUs for the Dedicated Host
- available\_memory The size of available memory for the Dedicated Host.
- instance\_total The number of the placed VMs.
- instance\_uuids The VMs started on the Dedicated Host.
- host\_type\_name The name of the Dedicated Host type.
- vcpus The number of host vCPUs.
- cores The number of host physical cores.
- sockets The number of host physical sockets.
- memory The size of host physical memory (MB).

available\_instance\_capacities - The VM flavors placed on the Dedicated Host.

### » Import

DeH can be imported using the dedicated\_host\_id, e.g. \$ terraform import opentelekomcloud\_deh\_host\_v1.deh\_host 4779ab1c-7c1a-44b1-a02e-93dfc361b32d

# » opentelekomcloud\_as\_configuration\_v1

Manages a V1 AS Configuration resource within OpenTelekomCloud.

# » Example Usage

### » Basic AS Configuration

```
resource "opentelekomcloud_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 "opentelekomcloud_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.

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

```
resource "opentelekomcloud_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:

- scaling\_configuration\_name (Required) The name of the AS configuration. The name can contain letters, digits, underscores(\_), and hyphens(-), and cannot exceed 64 characters.
- instance\_config (Required) The information about instance configurations. The instance\_config dictionary data structure is documented below.

The instance\_config block supports:

- instance\_id (Optional) When using the existing instance specifications as the template to create AS configurations, specify this argument. In this case, flavor, image, and disk arguments do not take effect. If the instance\_id argument is not specified, flavor, image, and disk arguments are mandatory.
- flavor (Optional) The flavor ID.
- image (Optional) The image ID.

- disk (Optional) The disk group information. System disks are mandatory and data disks are optional. The dick structure is described below.
- key\_name (Required) The name of the SSH key pair used to log in to the instance.
- user\_data (Optional) The user data to provide when launching the instance. The file content must be encoded with Base64.
- personality (Optional) Customize the personality of an instance by defining one or more files and their contents. The personality structure is described below.
- public\_ip (Optional) The elastic IP address of the instance. The public\_ip structure is described below.
- metadata (Optional) Metadata key/value pairs to make available from within the instance.

#### The disk block supports:

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

#### 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.

# » opentelekomcloud\_as\_group\_v1

Manages a V1 Autoscaling Group resource within OpenTelekomCloud.

### » Example Usage

#### » Basic Autoscaling Group

```
resource "opentelekomcloud_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 "opentelekomcloud_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 "opentelekomcloud_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 = "${opentelekomcloud_elb_listener.my_listener.id}"
  delete_publicip = true
  delete_instances = "yes"
}
resource "opentelekomcloud_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

- 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:

- scaling\_group\_name See Argument Reference above.
- desire\_instance\_number See Argument Reference above.
- min\_instance\_number See Argument Reference above.
- max\_instance\_number See Argument Reference above.
- cool\_down\_time See Argument Reference above.
- lb\_listener\_id See Argument Reference above.
- health\_periodic\_audit\_method See Argument Reference above.
- health\_periodic\_audit\_time See Argument Reference above.
- instance\_terminate\_policy See Argument Reference above.
- scaling\_configuration\_id See Argument Reference above.
- delete\_publicip See Argument Reference above.
- notifications See Argument Reference above.
- instances The instances IDs of the AS group.

# » opentelekomcloud\_as\_policy\_v1

Manages a V1 AS Policy resource within OpenTelekomCloud.

### » Example Usage

#### » AS Recurrence Policy

```
resource "opentelekomcloud_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 "opentelekomcloud_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 "opentelekomcloud_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

- 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:

- 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.

# » opentelekomcloud\_csbs\_backup\_v1

Provides an OpenTelekomCloud Backup of Resources.

### » Example Usage

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

resource "opentelekomcloud_csbs_backup_v1" "backup_v1" {
  backup_name = "${var.backup_name}"
  resource_id = "${var.resource_id}"
  resource_type = "OS::Nova::Server"
}
```

### » Argument Reference

- 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.
- tags (Optional) block supports the following arguments:
  - key (Required) Tag key. It cannot be an empty string. Changing key creates a new backup.
  - value (Required) Tag value. It can be an empty string. Changing value creates a new backup.

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.

Backup can be imported using backup\_record\_id, e.g.

\$ terraform import opentelekomcloud\_csbs\_backup\_v1.backup\_v1.backup\_v1 7056d636-ac60-4663-86

## » opentelekomcloud\_csbs\_backup\_policy\_v1

Provides an OpenTelekomCloud Backup Policy of Resources.

#### » Example Usage

```
variable "name" { }
variable "id" { }
variable "resource_name" { }
resource "opentelekomcloud_csbs_backup_policy_v1" "backup_policy_v1" {
                  = "${var.name}"
  name
  resource {
    id = "${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; BYHOUI
  }
}
```

#### » Argument Reference

- 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.
- tags block supports the following arguments:
  - key (Required) Tag key. It cannot be an empty string.
  - value (Required) Tag value. It can be an empty string.

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.

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

\$ terraform import opentelekomcloud\_csbs\_backup\_policy\_v1.backup\_policy\_v1 7056d636-ac60-466

## » opentelekomcloud\_dms\_queue\_v2

Manages a DMS queue in the opentelekomcloud DMS Service.

### » Example Usage

» Automatically detect the correct network

```
resource "opentelekomcloud_dms_queue_v1" "queue_1" {
  name = "queue_1"
  description = "test create dms queue"
  queue_mode = "FIFO"
  redrive_policy = "enable"
  max_consume_count = 80
}
```

### » Argument Reference

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

- consumed. The redrive\_policy should be set to 'enable' or 'disable'. The default value is 'disable'.
- max\_consume\_count (Optional) This parameter is mandatory only when redrive\_policy is set to enable. This parameter indicates the maximum number of allowed message consumption failures. When a message fails to be consumed after the number of consumption attempts of this message reaches this value, DMS stores this message into the dead letter queue. The max\_consume\_count value range is 1–100.

The following attributes are exported:

- name See Argument Reference above.
- queue\_mode See Argument Reference above.
- description See Argument Reference above.
- redrive\_policy See Argument Reference above.
- max\_consume\_count See Argument Reference above.
- created Indicates the time when a queue is created.
- reservation Indicates the retention period (unit: min) of a message in a queue.
- max\_msg\_size\_byte Indicates the maximum message size (unit: byte) that is allowed in queue.
- produced\_messages Indicates the total number of messages (not including the messages that have expired and been deleted) in a queue.
- group\_count Indicates the total number of consumer groups in a queue.

# ightarrow opentelekomcloud\_dms\_group\_v2

Manages a DMS group in the opentelekomcloud DMS Service.

#### » Example Usage

#### » Automatically detect the correct network

```
resource "opentelekomcloud_dms_group_v1" "queue_1" {
  name = "queue_1"
  description = "test create dms queue"
  queue_mode = "FIFO"
  redrive_policy = "enable"
  max_consume_count = 80
}
```

```
resource "opentelekomcloud_dms_group_v1" "group_1" {
  name = "group_1"
  queue_id = "${opentelekomcloud_dms_queue_v1.queue_1.id}"
}
```

The following arguments are supported:

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

#### » Attributes Reference

The following attributes are exported:

- name See Argument Reference above.
- queue\_id Indicates the ID of a queue.
- redrive\_policy Indicates whether to enable dead letter messages.
- produced\_messages Indicates the total number of messages (not including the messages that have expired and been deleted) in a queue.
- consumed\_messages Indicates the total number of messages that are successfully consumed.
- available\_messages Indicates the accumulated number of messages that can be consumed.
- produced\_deadletters Indicates the total number of dead letter messages generated by the consumer group.
- available\_deadletters Indicates the accumulated number of dead letter messages that have not been consumed.

# » opentelekomcloud\_cts\_tracker\_v1

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

#### » Example Usage

```
variable "bucket_name" { }
variable "topic_id" { }
```

The following arguments are supported:

- bucket\_name (Required) The OBS bucket name for a tracker.
- file\_prefix\_name (Optional) The prefix of a log that needs to be stored in an OBS bucket.
- is\_support\_smn (Required) Specifies whether SMN is supported. When the value is false, topic\_id and operations can be left empty.
- topic\_id (Required)The theme of the SMN service, Is obtained from SMN and in the format of urn:smn:([a-z]|[A-Z]|[0-9]|-){1,32}:([a-z]|[A-Z]|[0-9]|-]\_){1,256}.
- operations (Required) Trigger conditions for sending a notification.
- is\_send\_all\_key\_operation (Required) When the value is false, operations cannot be left empty.
- need\_notify\_user\_list (Optional) The users using the login function.
   When these users log in, notifications will be sent.
- status (Optional) The status of a tracker. The value should be enabled when creating a tracker, and when updating the value can be enabled or disabled.

#### » Attributes Reference

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

• tracker\_name - The tracker name. Currently, only tracker system is available.

#### » Import

CTS tracker can be imported using tracker\_name, e.g.

# » opentelekomcloud\_vbs\_backup\_policy\_v2

Provides an VBS Backup Policy resource.

## » Example Usage

```
resource "opentelekomcloud_vbs_backup_policy_v2" "vbs" {
  name = "policy_002"
  start_time = "12:00"
  status = "0N"
  retain_first_backup = "N"
  rentention_num = 2
  frequency = 1
    tags =[
      {
        key = "k1"
        value = "v1"
      }]
}
```

# » Argument Reference

- 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 opentelekomcloud\_vbs\_backup\_policy\_v2.vbs 4779ab1c-7c1a-44b1-a02e-93dfc36

# » opentelekomcloud\_vbs\_backup\_v2

Provides an VBS Backup resource.

# » Example Usage

```
variable "backup_name" {}

variable "volume_id" {}

resource "opentelekomcloud_vbs_backup_v2" "mybackup" {
  volume_id = "${var.volume_id}"
  name = "${var.backup_name}"
}
```

The following arguments are supported:

- name (Required) The name of the vbs backup. Changing the parameter will create new resource.
- volume\_id (Required) The id of the disk to be backed up. Changing the parameter will create new resource.
- snapshot\_id (Optional) The snapshot id of the disk to be backed up. Changing the parameter will create new resource.
- description (Optional) The description of the vbs backup. Changing the parameter will create new resource.

tags - (Optional) List of tags to be configured for the backup resources. Changing the parameter will create new resource.

- key (Required) Specifies the tag key.
- value (Required) Specifies the tag value.

#### » 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.
- size The size of the vbs backup.
- service\_metadata The metadata of the vbs backup.

# » Import

VBS Backup can be imported using the backup id, e.g.

\$ terraform import opentelekomcloud\_vbs\_backup\_v2.mybackup 4779ab1c-7c1a-44b1-a02e-93dfc36

# $ightsymbol{"}$ opentelekomcloud\_vbs\_backup\_share\_v2

Provides an VBS Backup Share resource.

## » Example Usage

```
variable "backup_id" {}

variable "to_project_ids" {}

resource "opentelekomcloud_vbs_backup_share_v2" "backupshare" {
  backup_id = "${var.backup_id}"
  to_project_ids = "${var.to_project_ids}"
}
```

## » Argument Reference

The following arguments are supported:

- backup\_id (Required) The ID of the backup to be shared. Changing the parameter will create new resource.
- to\_project\_ids (Required) The IDs of projects with which the backup is shared. Changing the parameter will create new resource.

### » Attributes Reference

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

- container The container of the backup.
- backup\_status The status of the VBS backup.
- description The status of the VBS backup.
- availability\_zone The AZ where the backup resides.
- size The size of the vbs backup.
- backup\_name The backup name.
- snapshot\_id The ID of the snapshot associated with the backup.
- volume\_id The ID of the tenant to which the backup belongs.
- share\_ids The backup share IDs.
- service\_metadata The metadata of the vbs backup.

VBS Backup Share can be imported using the backup id, e.g.

\$ terraform import opentelekomcloud\_vbs\_backup\_share\_v2.backupshare 4779ab1c-7c1a-44b1-a02e

## » opentelekomcloud\_cce\_cluster\_v3

Provides a cluster resource (CCE).

#### » Example Usage

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

resource "opentelekomcloud_cce_cluster_v3" "cluster_1" {
 name = "cluster"
  cluster_type= "VirtualMachine"
  flavor_id= "${var.flavor_id}"
  vpc_id= "${var.vpc_id}"
  subnet_id= "${var.subnet_id}"
  container_network_type= "overlay_12"
  description= "Create cluster"
}
```

#### » Argument Reference

- name (Required) Cluster name. Changing this parameter will create a new cluster resource.
- labels (Optional) Cluster tag, key/value pair format. Changing this parameter will create a new cluster resource.
- annotations (Optional) Cluster annotation, key/value pair format. Changing this parameter will create a new cluster resource.
- flavor\_id (Required) Cluster specifications. Changing this parameter will create a new cluster resource.

```
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 v1.9.2-r2 or v1.11.3-r1. Changing this parameter will create a new cluster resource. OTC-API
- 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 type.
  - overlay\_12 An overlay\_l2 network built for containers by using Open vSwitch(OVS)
  - underlay\_ipvlan An underlay\_ipvlan network built for bare metal servers by using ipvlan.
  - vpc-router An vpc-router network built for containers by using ipvlan and custom VPC routes.

• container\_network\_cidr - (Optional) Container network segment. Changing this parameter will create a new cluster resource.

#### » 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.
- internal The internal network address.
- external The external network address.
- external\_otc The endpoint of the cluster to be accessed through API Gateway.

#### » Import

Cluster can be imported using the cluster id, e.g.

```
$ terraform import opentelekomcloud_cce_cluster_v3.cluster_1 4779ab1c-7c1a-44b1-a02e-93dfc3
```

# $ightsymbol{ iny}$ opentelekomcloud\_cce\_node\_v3

Add a node to a container cluster.

#### » Example Usage

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

resource "opentelekomcloud_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"
    },
]
```

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.
- 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 ondemand charging. Changing this parameter will create a new cluster resource.
- ecs\_performance\_type (Optional) Classification of cloud server specifications. Changing this parameter will create a new cluster resource.
- order\_id (Optional) Order ID, mandatory when the node payment type
  is the automatic payment package period type. Changing this parameter
  will create a new cluster resource.
- product\_id (Optional) The Product ID. Changing this parameter will create a new cluster resource.
- max\_pods (Optional) The maximum number of instances a node is allowed to create. Changing this parameter will create a new cluster resource.
- public\_key (Optional) The Public key. Changing this parameter will create a new cluster resource.

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.

## » opentelekomcloud\_antiddos\_v1

Anti-DDoS monitors the service traffic from the Internet to ECSs, ELB instances, and BMSs to detect attack traffic in real time. It then cleans attack traffic according to user-configured defense policies so that services run as normal.

#### » Example Usage

```
variable "eip_id" {}

resource "opentelekomcloud_antiddos_v1" "myantiddos" {
    floating_ip_id = "${var.eip_id}"
    enable_17 = true
    traffic_pos_id = 1
    http_request_pos_id = 3
    cleaning_access_pos_id = 2
    app_type_id = 0
}
```

#### » Argument Reference

The following arguments are supported:

- enable 17 (Required) Specifies whether to enable L7 defense.
- traffic\_pos\_id (Required) The position ID of traffic. The value ranges from 1 to 9.
- http\_request\_pos\_id (Required) The position ID of number of HTTP requests. The value ranges from 1 to 15.
- cleaning\_access\_pos\_id (Required)The position ID of access limit during cleaning. The value ranges from 1 to 8.
- app\_type\_id (Required) The application type ID.
- floating\_ip\_id (Required) The ID corresponding to the Elastic IP Address (EIP) of a user.

#### » Attributes Reference

All above argument parameters can be exported as attribute parameters.

Antiddos can be imported using the floating\_ip\_id, e.g. \$ terraform import opentelekomcloud\_antiddos\_v1.myantiddos c1881895-cdcb-4d23-96cb-032e6a3ee667

### » opentelekomcloud\_dcs\_instance\_v1

Manages a DCS instance in the opentelekomcloud DCS Service.

### » Example Usage

» Automatically detect the correct network

```
resource "opentelekomcloud_networking_secgroup_v2" "secgroup_1" {
 name = "secgroup_1"
 description = "secgroup_1"
data "opentelekomcloud_dcs_az_v1" "az_1" {
 port = "8002"
}
data "opentelekomcloud_dcs_product_v1" "product_1" {
   spec_code = "dcs.master_standby"
 resource "opentelekomcloud_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 = "${opentelekomcloud_networking_secgroup_v2.secgroup_1.id}"
   subnet_id = "27d99e17-42f2-4751-818f-5c8c6c03ff15"
   available_zones = ["${data.opentelekomcloud_dcs_az_v1.az_1.id}"]
   product_id = "${data.opentelekomcloud_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.opentelekomcloud_dcs_product_v1.product_1", "opentelekomcloud_
```

- 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 (Required) Indicates a cache engine. Only Redis is supported. Changing this creates a new instance.
- engine\_version (Required) Indicates the version of a cache engine, which is 3.0.7. 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, 512GB. Changing this creates a new instance.
- 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 (Required) 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 (Required) Retention time. Unit: day. Range: 1–7. Changing this creates a new instance.
- backup\_type (Required) Backup type. Options: auto: automatic backup. manual: manual backup. Changing this creates a new instance.
- begin\_at (Required) 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 (Required) Interval at which backup is performed. Currently, only weekly backup is supported. Changing this creates a new instance.
- backup\_at (Required) Day in a week on which backup starts. Range: 1–
   7. Where: 1 indicates Monday; 7 indicates Sunday. Changing this creates a new instance.

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.
- $\bullet\,$  subnet\_name Indicates the name of a subnet.
- available\_zones See Argument Reference above.
- product\_id See Argument Reference above.
- maintain\_begin See Argument Reference above.
- maintain\_end See Argument Reference above.
- save\_days See Argument Reference above.
- backup\_type See Argument Reference above.
- begin\_at See Argument Reference above.
- period type See Argument Reference above.
- backup\_at See Argument Reference above.
- order\_id An order ID is generated only in the monthly or yearly billing mode. In other billing modes, no value is returned for this parameter.
- port Port of the cache node.
- resource\_spec\_code Resource specifications. dcs.single\_node: indicates a DCS instance in single-node mode. dcs.master\_standby: indicates a DCS instance in master/standby mode. dcs.cluster: indicates a DCS instance in cluster mode.
- used\_memory Size of the used memory. Unit: MB.
- internal\_version Internal DCS version.
- max\_memory Overall memory size. Unit: MB.
- user id Indicates a user ID.
- ip Cache node's IP address in tenant's VPC.