

» 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
}
```

» Argument Reference

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

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

» Attributes Reference

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

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

» 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

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

» Attributes Reference

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

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

» opentelekomcloud_kms_key_v1

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

» Example Usage

```
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"
}
```

» Argument Reference

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

» `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

```
resource "opentelekomcloud_kms_key_v1" "key1" {
  key_alias      = "key_1"
  pending_days   = "7"
  key_description = "first test key"
}

data "opentelekomcloud_kms_data_key_v1" "kms_datakey1" {
  key_id          = "${opentelekomcloud_kms_key_v1.key1.id}"
  datakey_length = "512"
}
```

» Argument Reference

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

» Attributes Reference

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

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

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

» Argument Reference

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

» Available value for attributes

datastore_name	datastore_version	speccode
PostgreSQL	9.5.5	rds.pg.s1.xlarge rds.pg.m1.2xlarge rds.pg.c2.xlarge rds.pg.s1.medium r
	9.6.3	
	9.6.5	

datastore_name	datastore_version	speccode				
MySQL	5.6.33	rds.mysql.s1.medium rds.mysql.s1.large rds.mysql.s1.xlarge rds.mysql.s1.2xlarge				
	5.6.30					
	5.6.34					
	5.6.35					
	5.6.36					
	5.7.17					
	5.7.20					
SQLServer	2014 SP2 SE	rds.mssql.s1.xlarge rds.mssql.m1.2xlarge rds.mssql.c2.xlarge rds.mssql.c2.4xlarge				

» Attributes Reference

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

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

» 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 v

Attributes Reference

The following attributes are exported:

- * ``body`` - Object data (see **limitations above** to understand cases in which this field is
- * ``cache_control`` - Specifies caching behavior along the request/reply chain.
- * ``content_disposition`` - Specifies presentational information for the object.
- * ``content_encoding`` - Specifies what content encodings have been applied to the object and
- * ``content_language`` - The language the content is in.
- * ``content_length`` - Size of the body in bytes.
- * ``content_type`` - A standard MIME type describing the format of the object data.
- * ``etag`` - [ETag] (https://en.wikipedia.org/wiki/HTTP_ETag) generated for the object (an MD5
- * ``expiration`` - If the object expiration is configured (see [object lifecycle management] (l
- * ``expires`` - The date and time at which the object is no longer cacheable.
- * ``last_modified`` - Last modified date of the object in RFC1123 format (e.g. ``Mon, 02 Jan 20`
- * ``metadata`` - A map of metadata stored with the object in S3
- * ``server_side_encryption`` - If the object is stored using server-side encryption (KMS or An
- * ``sse_kms_key_id`` - If present, specifies the ID of the Key Management Service (KMS) master
- * ``storage_class`` - [Storage class] (<http://docs.aws.amazon.com/AmazonS3/latest/dev/storage-c>
- * ``version_id`` - The latest version ID of the object returned.
- * ``website_redirect_location`` - If the bucket is configured as a website, redirects requests
- * ``tags`` - A mapping of tags assigned to the object.

» opentelekomcloud_ces_alarmrule

Manages a V2 topic resource within OpenTelekomCloud.

» Example Usage

```
resource "opentelekomcloud_ces_alarmrule" "alarm_rule" {
  "alarm_name" = "alarm_rule"
  "metric" {
    "namespace" = "SYS.ECS"
    "metric_name" = "network_outgoing_bytes_rate_inband"
    "dimensions" {
      "name" = "instance_id"
      "value" = "${opentelekomcloud_compute_instance_v2.webserver.id}"
    }
  }
}
```



```

    }
    "condition" {
      "period" = 300
      "filter" = "average"
      "comparison_operator" = ">"
      "value" = 6
      "unit" = "B/s"
      "count" = 1
    }
    "alarm_actions" {
      "type" = "notification"
      "notification_list" = [
        "${opentelekomcloud_smn_topic_v2.topic.id}"
      ]
    }
  }
}

```

» Argument Reference

The following arguments are supported:

- **alarm_name** - (Required) Specifies the name of an alarm rule. The value can be a string of 1 to 128 characters that can consist of numbers, lowercase letters, uppercase letters, underscores (`_`), or hyphens (`-`).
- **alarm_description** - (Optional) The value can be a string of 0 to 256 characters.
- **metric** - (Required) Specifies the alarm metrics. The structure is described below.
- **condition** - (Required) Specifies the alarm triggering condition. The structure is described below.
- **alarm_actions** - (Optional) Specifies the action triggered by an alarm. The structure is described below.
- **insufficientdata_actions** - (Optional) Specifies the action triggered by data insufficiency. The structure is described below.
- **ok_actions** - (Optional) Specifies the action triggered by the clearing of an alarm. The structure is described below.
- **alarm_enabled** - (Optional) Specifies whether to enable the alarm. The default value is true.
- **alarm_action_enabled** - (Optional) Specifies whether to enable the action to be triggered by an alarm. The default value is true. Note: If

alarm_action_enabled is set to true, at least one of the following parameters alarm_actions, insufficientdata_actions, and ok_actions cannot be empty. If alarm_actions, insufficientdata_actions, and ok_actions coexist, their corresponding notification_list must be of the same value.

The **metric** block supports:

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

The **dimensions** block supports:

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

The **condition** block supports:

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

the **alarm_actions** block supports:

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

the **insufficientdata_actions** block supports:

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

the **ok_actions** block supports:

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

» Attributes Reference

The following attributes are exported:

- **alarm_name** - See Argument Reference above.
- **alarm_description** - See Argument Reference above.
- **metric** - See Argument Reference above.
- **condition** - See Argument Reference above.
- **alarm_actions** - See Argument Reference above.
- **insufficientdata_actions** - See Argument Reference above.
- **ok_actions** - See Argument Reference above.
- **alarm_enabled** - See Argument Reference above.
- **alarm_action_enabled** - See Argument Reference above.
- **id** - Specifies the alarm rule ID.
- **update_time** - Specifies the time when the alarm status changed. The value is a UNIX timestamp and the unit is ms.

- **alarm_state** - Specifies the alarm status. The value can be: ok: The alarm status is normal, alarm: An alarm is generated, insufficient_data: The required data is insufficient.

» opentelekomcloud_blockstorage_volume_v2

Manages a V2 volume resource within OpenTelekomCloud.

» Example Usage

```
resource "opentelekomcloud_blockstorage_volume_v2" "volume_1" {
  region      = "RegionOne"
  name        = "volume_1"
  description = "first test volume"
  size        = 3
}
```

» Argument Reference

The following arguments are supported:

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

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import 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:

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

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import opentelekomcloud_compute_floatingip_v2.floatip_1 89c60255-9bd6-460c-822a-
```

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

  network {
    name = "my_network"
  }

  network {
    name = "default"
  }
}

resource "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:

- **region** - (Optional) The region in which to obtain the V2 Compute client. Keypairs are associated with accounts, but a Compute client is needed to create one. If omitted, the **region** argument of the provider is used. Changing this creates a new floatingip_associate.
- **floating_ip** - (Required) The floating IP to associate.
- **instance_id** - (Required) The instance to associate the floating IP with.
- **fixed_ip** - (Optional) The specific IP address to direct traffic to.

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import opentelekomcloud_compute_floatingip_associate_v2.fip_1 <floating_ip>/<instance_id>
```

» opentelekomcloud_compute_instance_v2

Manages a V2 VM instance resource within OpenTelekomCloud.

» Example Usage

» Basic Instance

```
resource "opentelekomcloud_compute_instance_v2" "basic" {
```



```

name          = "basic"
image_id      = "ad091b52-742f-469e-8f3c-fd81cadf0743"
flavor_id     = "3"
key_pair      = "my_key_pair_name"
security_groups = ["default"]
tags = ["foo.bar", "tag.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" {
    name          = "myinstance"
    image_id      = "ad091b52-742f-469e-8f3c-fd81cadf0743"
    flavor_id     = "3"
    key_pair      = "my_key_pair_name"
    security_groups = ["default"]

    network {
        name = "my_network"
    }
}

resource "opentelekomcloud_compute_volume_attach_v2" "attached" {
    compute_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" {
    name          = "boot-from-volume"

```

```

flavor_id      = "3"
key_pair       = "my_key_pair_name"
security_groups = ["default"]

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

network {
  name = "my_network"
}
}

```

» Boot From an Existing Volume

```

resource "opentelekomcloud_blockstorage_volume_v1" "myvol" {
  name     = "myvol"
  size     = 5
  image_id = "<image-id>"
}

resource "opentelekomcloud_compute_instance_v2" "boot-from-volume" {
  name          = "bootfromvolume"
  flavor_id     = "3"
  key_pair      = "my_key_pair_name"
  security_groups = ["default"]

  block_device {
    uuid          = "${opentelekomcloud_blockstorage_volume_v1.myvol.id}"
    source_type   = "volume"
    boot_index    = 0
    destination_type = "volume"
    delete_on_termination = true
  }

  network {
    name = "my_network"
  }
}

```

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

```
resource "opentelekomcloud_compute_instance_v2" "instance_1" {
  name          = "instance_1"
  image_id      = "<image-id>"
  flavor_id     = "3"
  key_pair      = "my_key_pair_name"
  security_groups = ["default"]

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

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

» Boot Instance and Attach Existing Volume as a Block Device

```
resource "opentelekomcloud_blockstorage_volume_v2" "volume_1" {
  name = "volume_1"
  size = 1
}

resource "opentelekomcloud_compute_instance_v2" "instance_1" {
  name          = "instance_1"
  image_id      = "<image-id>"
  flavor_id     = "3"
  key_pair      = "my_key_pair_name"
  security_groups = ["default"]

  block_device {
    uuid          = "<image-id>"
    source_type   = "image"
    destination_type = "local"
  }
}
```

```

        boot_index          = 0
        delete_on_termination = true
    }

    block_device {
        uuid                = "${opentelekomcloud_blockstorage_volume_v2.volume_1.id}"
        source_type          = "volume"
        destination_type     = "volume"
        boot_index           = 1
        delete_on_termination = true
    }
}

```

» Instance With Multiple Networks

```

resource "opentelekomcloud_networking_floatingip_v2" "myip" {
    pool = "my_pool"
}

resource "opentelekomcloud_compute_instance_v2" "multi-net" {
    name                = "multi-net"
    image_id             = "ad091b52-742f-469e-8f3c-fd81cadf0743"
    flavor_id            = "3"
    key_pair             = "my_key_pair_name"
    security_groups     = ["default"]

    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" {

```

```

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

personality {
  file      = "/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"
  image_id      = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor_id     = "3"
  key_pair      = "my_key_pair_name"
  security_groups = ["default"]

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

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

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

```

```

        source_type      = "blank"
        volume_size      = 1
    }
}

```

» Instance with User Data (cloud-init)

```

resource "opentelekomcloud_compute_instance_v2" "instance_1" {
    name          = "basic"
    image_id      = "ad091b52-742f-469e-8f3c-fd81cadf0743"
    flavor_id     = "3"
    key_pair      = "my_key_pair_name"
    security_groups = ["default"]
    user_data     = "#cloud-config\nhostname: instance_1.example.com\nfqdn: instance_1.example.com"

    network {
        name = "my_network"
    }
}

```

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

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to create the server instance. If omitted, the **region** argument of the provider is used. Changing this creates a new server.
- **name** - (Required) A unique name for the resource.
- **image_id** - (Optional; Required if **image_name** is empty and not booting from a volume. Do not specify if booting from a volume.) The image ID of the desired image for the server. Changing this creates a new server.
- **image_name** - (Optional; Required if **image_id** is empty and not booting from a volume. Do not specify if booting from a volume.) The name of the desired image for the server. Changing this creates a new server.
- **flavor_id** - (Optional; Required if **flavor_name** is empty) The flavor ID of the desired flavor for the server. Changing this resizes the existing server.
- **flavor_name** - (Optional; Required if **flavor_id** is empty) The name of the desired flavor for the server. Changing this resizes the existing server.

- **user_data** - (Optional) The user data to provide when launching the instance. Changing this creates a new server.
- **security_groups** - (Optional) An array of one or more security group names to associate with the server. Changing this results in adding/removing security groups from the existing server. *Note:* When attaching the instance to networks using Ports, place the security groups on the Port and not the instance.
- **availability_zone** - (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** - (Optional) The tags of the image. It must be a list of strings.
- **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 **uuid** or **port** is provided) The human-readable name of the network. Changing this creates a new server.
- **port** - (Required unless **uuid** or **name** is provided) The port UUID of a network to attach to the server. Changing this creates a new server.
- **fixed_ip_v4** - (Optional) Specifies a fixed IPv4 address to be used on this network. Changing this creates a new server.
- **fixed_ip_v6** - (Optional) Specifies a fixed IPv6 address to be used on this network. Changing this creates a new server.
- **access_network** - (Optional) Specifies if this network should be used for provisioning access. Accepts true or false. Defaults to false.

The **block_device** block supports:

- **uuid** - (Required unless **source_type** is set to "blank") The UUID of the image, volume, or snapshot. Changing this creates a new server.
- **source_type** - (Required) The source type of the device. Must be one of "blank", "image", "volume", or "snapshot". Changing this creates a new server.
- **volume_size** - The size of the volume to create (in gigabytes). Required in the following combinations: source=image and destination=volume, source=blank and destination=local, and source=blank and destination=volume. Changing this creates a new server.
- **boot_index** - (Optional) The boot index of the volume. It defaults to 0. Changing this creates a new server.
- **destination_type** - (Optional) The type that gets created. Possible values are "volume" and "local". Changing this creates a new server.
- **delete_on_termination** - (Optional) Delete the volume / block device upon termination of the instance. Defaults to false. Changing this creates a new server.

The **scheduler_hints** block supports:

- **group** - (Optional) A UUID of a Server Group. The instance will be placed into that group.
- **different_host** - (Optional) A list of instance UUIDs. The instance will be scheduled on a different host than all other instances.
- **same_host** - (Optional) A list of instance UUIDs. The instance will be scheduled on the same host of those specified.
- **query** - (Optional) A conditional query that a compute node must pass in order to host an instance.
- **target_cell** - (Optional) The name of a cell to host the instance.
- **build_near_host_ip** - (Optional) An IP Address in CIDR form. The instance will be placed on a compute node that is in the same subnet.

The **personality** block supports:

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

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **name** - See Argument Reference above.
- **access_ip_v4** - The first detected Fixed IPv4 address *or* the Floating IP.
- **access_ip_v6** - The first detected Fixed IPv6 address.
- **metadata** - See Argument Reference above.
- **security_groups** - See Argument Reference above.
- **flavor_id** - See Argument Reference above.
- **flavor_name** - See Argument Reference above.
- **network/uuid** - See Argument Reference above.
- **network/name** - See Argument Reference above.
- **network/port** - See Argument Reference above.
- **network/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" {
  name          = "terraform-test"
  security_groups = ["default"]

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

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

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

» Instances and Ports

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

- When attaching an Instance to one or more networks using Ports, place the security groups on the Port and not the Instance. If you place the security groups on the Instance, the security groups will not be applied upon creation, but they will be applied upon a refresh. This is a known 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 its network Port, customize the `connection` information:

```
resource "opentelekomcloud_networking_port_v2" "port_1" {
  name          = "port_1"
  admin_state_up = "true"

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

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

resource "opentelekomcloud_compute_instance_v2" "instance_1" {
  name = "instance_1"

  network {
    port = "${opentelekomcloud_networking_port_v2.port_1.id}"
  }

  connection {
    user      = "root"
    host      = "${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

```
resource "opentelekomcloud_compute_keypair_v2" "test-keypair" {  
  name      = "my-keypair"  
  public_key = "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDAjpC1hwi0CCmKEWxJ4qzTTsJbKzndLotBCz5H  
}
```

» Argument Reference

The following arguments are supported:

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

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import 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" {
  name          = "my_secgroup"
  description   = "my security group"

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

  rule {
    from_port    = 80
    to_port      = 80
    ip_protocol   = "tcp"
    cidr         = "0.0.0.0/0"
  }
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 Compute client. A Compute client is needed to create a security group. If omitted, the **region** argument of the provider is used. Changing this creates a new security group.
- **name** - (Required) A unique name for the security group. Changing this updates the **name** of an existing security group.
- **description** - (Required) A description for the security group. Changing this updates the **description** of an existing security group.
- **rule** - (Optional) A rule describing how the security group operates. The rule object structure is documented below. Changing this updates the security group rules. As shown in the example above, multiple rule blocks may be used.

The **rule** block supports:

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

» Attributes Reference

The following attributes are exported:

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

» Notes

» ICMP Rules

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

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

A list of ICMP types and codes can be found [here](#).

» Referencing Security Groups

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

```
resource "opentelekomcloud_compute_instance_v2" "test-server" {
  name          = "tf-test"
  image_id      = "ad091b52-742f-469e-8f3c-fd81cadf0743"
  flavor_id     = "3"
  key_pair      = "my_key_pair_name"
  security_groups = ["${opentelekomcloud_compute_secgroup_v2.secgroup_1.name}"]
}
```

» 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

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 Compute client. If omitted, the **region** argument of the provider is used. Changing this creates a new server group.
- **name** - (Required) A unique name for the server group. Changing this creates a new server group.

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

» Policies

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

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import opentelekomcloud_compute_servergroup_v2.test-sg 1bc30ee9-9d5b-4c30-bdd5-7
```

» 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

```
resource "opentelekomcloud_blockstorage_volume_v2" "volume_1" {
  name = "volume_1"
  size = 1
}
```



```

}

resource "opentelekomcloud_compute_instance_v2" "instance_1" {
  name          = "instance_1"
  security_groups = ["default"]
}

resource "opentelekomcloud_compute_volume_attach_v2" "va_1" {
  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" {
  count = 2
  name  = "${format("vol-%02d", count.index + 1)}"
  size  = 1
}

resource "opentelekomcloud_compute_instance_v2" "instance_1" {
  name          = "instance_1"
  security_groups = ["default"]
}

resource "opentelekomcloud_compute_volume_attach_v2" "attachments" {
  count          = 2
  instance_id    = "${opentelekomcloud_compute_instance_v2.instance_1.id}"
  volume_id      = "${element(opentelekomcloud_blockstorage_volume_v2.volumes.*.id, count.index)}"
}

output "volume devices" {
  value = "${opentelekomcloud_compute_volume_attach_v2.attachments.*.device}"
}

```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 Compute client. A Compute client is needed to create a volume attachment. If omitted, the **region** argument of the provider is used. Changing this creates a new volume attachment.

- `instance_id` - (Required) The ID of the Instance to attach the Volume to.
- `volume_id` - (Required) The ID of the Volume to attach to an Instance.
- `device` - (Optional) The device of the volume attachment (ex: `/dev/vdc`). *NOTE:* Being able to specify a device is dependent upon the hypervisor in use. There is a chance that the device specified in Terraform will not be the same device the hypervisor chose. If this happens, Terraform will wish to update the device upon subsequent applying which will cause the volume to be detached and reattached indefinitely. Please use with caution.

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import opentelekomcloud_compute_volume_attach_v2.va_1 89c60255-9bd6-460c-822a-e2
```

» 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:

- **region** - (Optional) The region in which to obtain the V2 DNS client. If omitted, the **region** argument of the provider is used. Changing this creates a new DNS record set.
- **zone_id** - (Required) The ID of the zone in which to create the record set. Changing this creates a new DNS record set.
- **name** - (Required) The name of the record set. Note the . at the end of the name. Changing this creates a new DNS record set.
- **type** - (Optional) The type of record set. 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:

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

- `zone_id` - See Argument Reference above.
- `value_specs` - See Argument Reference above.

» Import

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

```
$ terraform import 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

» Automatically detect the correct network

```
resource "opentelekomcloud_dns_zone_v2" "example.com" {
  name = "example.com."
  email = "jdoe@example.com"
  description = "An example zone"
  ttl = 3000
  type = "PRIMARY"
}
```

» Argument Reference

The following arguments are supported:

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

- **attributes** - (Optional) Attributes for the DNS Service scheduler. Changing this creates a new zone.
- **ttl** - (Optional) The time to live (TTL) of the zone.
- **description** - (Optional) A description of the zone.
- **masters** - (Optional) An array of master DNS servers. For when **type** is **SECONDARY**.
- **value_specs** - (Optional) Map of additional options. Changing this creates a new zone.

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **name** - See Argument Reference above.
- **email** - See Argument Reference above.
- **type** - See Argument Reference above.
- **attributes** - 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>
```

» opentelekomcloud_elb_loadbalancer

Manages an elastic loadbalancer resource within OpentelekomCloud.

» 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:

- **region** - (Optional) The region in which to create the loadbalancer. If omitted, the **region** argument of the provider is used. Changing this creates a new loadbalancer.
- **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 loadbalancer.

- **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:

- **region** - See Argument Reference above.
- **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.

» 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
}
```

```

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"
  }
}

```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to create the elb listener. If omitted, the **region** argument of the provider is used. Changing this creates a new elb listener.
- **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.
- **sticky_session_type** - (Optional) Specifies the cookie processing method. The value is insert. insert indicates that the cookie is inserted by the load balancer. This parameter is valid when protocol is set to HTTP, and session_sticky to true. The default value is insert. This parameter is invalid when protocol is set to TCP or UDP, which means the parameter is empty. 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 sticky_session_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:

- **region** - See Argument Reference above.
- **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.
- **sticky_session_type** - See Argument Reference above.
- **cookie_timeout** - See Argument Reference above.
- **tcp_timeout** - See Argument Reference above.
- **tcp_draining** - See Argument Reference above.
- **tcp_draining_timeout** - See Argument Reference above.
- **certificate_id** - See Argument Reference above.
- **udp_timeout** - See Argument Reference above.
- **ssl_protocols** - See Argument Reference above.
- **ssl_ciphers** - See Argument Reference above.
- **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.

» 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
}

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"
    }
}

```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to create the elb health. If omitted, the **region** argument of the provider is used. Changing this creates a new elb health.

- **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:

- **region** - See Argument Reference above.
- **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.

» 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
}

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"
}
```

» Argument Reference

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, PENDING, or ERROR.
- **health_status** - Specifies the health check status. The value is NORMAL, ABNORMAL, or UNAVAILABLE.
- **update_time** - Specifies the time when information about the backend member was updated.
- **create_time** - Specifies the time when the backend member was created.
- **server_name** - Specifies the backend member name.
- **listeners** - Specifies the listener to which the backend member belongs.

» opentelekomcloud_images_image_v2

Manages a V2 Image resource within OpenTelekomCloud Glance.

» Example Usage

```
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"]
}
```

» Argument Reference

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. Defaults to 0.
- **name** - (Required) The name of the image.
- **protected** - (Optional) If true, image will not be deletable. Defaults to false.
- **region** - (Optional) The region in which to obtain the V2 Glance client. A Glance client is needed to create an Image that can be used with a compute instance. If omitted, the **region** argument of the provider is used. Changing this creates a new Image.
- **tags** - (Optional) The tags of the image. It must be a list of strings. At this time, it is not possible to delete all tags of an image.
- **visibility** - (Optional) The visibility of the image. Must be 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.
- `region` - See Argument Reference above.
- `schema` - The path to the JSON-schema that represent the image or image
- `size_bytes` - The size in bytes of the data associated with the image.
- `status` - The status of the image. It can be "queued", "active" or "saving".
- `tags` - See Argument Reference above.
- `update_at` - The date the image was last updated.
- `visibility` - See Argument Reference above.

» Import

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

```
$ terraform import opentelekomcloud_images_image_v2.rancheros 89c60255-9bd6-460c-822a-e2b955
```

» 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:

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

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import opentelekomcloud_networking_floatingip_v2.floatip_1 2c7f39f3-702b-48d1-9a
```

» opentelekomcloud_networking_network_v2

Manages a V2 Neutron network 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"
  network_id    = "${opentelekomcloud_networking_network_v2.network_1.id}"
  cidr          = "192.168.199.0/24"
  ip_version    = 4
}

resource "opentelekomcloud_compute_secgroup_v2" "secgroup_1" {
  name          = "secgroup_1"
  description   = "a security group"

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

resource "opentelekomcloud_networking_port_v2" "port_1" {
  name          = "port_1"
  network_id    = "${opentelekomcloud_networking_network_v2.network_1.id}"
  admin_state_up = "true"
  security_group_ids = ["${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" {
  name          = "instance_1"
  security_groups = ["${opentelekomcloud_compute_secgroup_v2.secgroup_1.name}"]

  network {
    port = "${opentelekomcloud_networking_port_v2.port_1.id}"
  }
}
```

}

» Argument Reference

The following arguments are supported:

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

The **segments** block supports:

- **physical_network** - The physical network where this network is implemented.
- **segmentation_id** - An isolated segment on the physical network.
- **network_type** - The type of physical network.

» Attributes Reference

The following attributes are exported:

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

» 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

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

resource "opentelekomcloud_networking_port_v2" "port_1" {
  name          = "port_1"
  network_id    = "${opentelekomcloud_networking_network_v2.network_1.id}"
  admin_state_up = "true"
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a port. If omitted, the **region** argument of the provider is used. Changing this creates a new port.
- **name** - (Optional) A unique name for the port. Changing this updates the name of an existing port.
- **network_id** - (Required) The ID of the network to attach the port to. Changing this creates a new port.
- **admin_state_up** - (Optional) Administrative up/down status for the port (must be "true" or "false" if provided). Changing this updates the **admin_state_up** of an existing port.
- **mac_address** - (Optional) Specify a specific MAC address for the port. Changing this creates a new port.

- **tenant_id** - (Optional) The owner of the Port. Required if admin wants to create a port for another tenant. Changing this creates a new port.
- **device_owner** - (Optional) The device owner of the Port. Changing this creates a new port.
- **security_group_ids** - (Optional) 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:

- **region** - See Argument Reference above.
- **admin_state_up** - See Argument Reference above.
- **mac_address** - See Argument Reference above.
- **tenant_id** - See Argument Reference above.
- **device_owner** - See Argument Reference above.
- **security_group_ids** - See Argument Reference above.
- **device_id** - See Argument Reference above.
- **fixed_ip** - See Argument Reference above.
- **all_fixed_ips** - The collection of Fixed IP addresses on the port in the order returned by the Network v2 API.

» Import

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

```
$ terraform import opentelekomcloud_networking_port_v2.port_1 eae26a3e-1c33-4cc1-9c31-0cd729
```

» 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

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

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

resource "opentelekomcloud_networking_router_v2" "router_1" {
  name          = "my_router"
  external_gateway = "f67f0d72-0ddf-11e4-9d95-e1f29f417e2f"
}

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}"
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a router. If omitted, the **region** argument of the provider is used. Changing this creates a new router interface.
- **router_id** - (Required) ID of the router this interface belongs to. Changing this creates a new router interface.
- **subnet_id** - ID of the subnet this interface connects to. Changing this creates a new router interface.
- **port_id** - ID of the port this interface connects to. Changing this creates a new router interface.

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **router_id** - See Argument Reference above.
- **subnet_id** - See Argument Reference above.
- **port_id** - See Argument Reference above.

» opentelekomcloud_networking_router_route_v2

Creates a routing entry on a OpenTelekomCloud V2 router.

» Example Usage

```
resource "opentelekomcloud_networking_router_v2" "router_1" {
  name          = "router_1"
  admin_state_up = "true"
}

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

resource "opentelekomcloud_networking_subnet_v2" "subnet_1" {
  network_id = "${opentelekomcloud_networking_network_v2.network_1.id}"
}
```

```

    cidr          = "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" {
    depends_on      = ["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"
  }

```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 networking client. A networking client is needed to configure a routing entry on a router. If omitted, the **region** argument of the provider is used. Changing this creates a new routing entry.
- **router_id** - (Required) ID of the router this routing entry belongs to. Changing this creates a new routing entry.
- **destination_cidr** - (Required) CIDR block to match on the packet's destination IP. Changing this creates a new routing entry.
- **next_hop** - (Required) IP address of the next hop gateway. Changing this creates a new routing entry.

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **router_id** - See Argument Reference above.
- **destination_cidr** - See Argument Reference above.
- **next_hop** - See Argument Reference above.

» Notes

The `next_hop` IP address must be directly reachable from the router at the `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.

» Example Usage

```
resource "opentelekomcloud_networking_router_v2" "router_1" {
  name          = "my_router"
  external_gateway = "f67f0d72-0ddf-11e4-9d95-e1f29f417e2f"
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a router. If omitted, the `region` argument of the provider is used. Changing this creates a new router.
- **name** - (Optional) A unique name for the router. Changing this updates the `name` of an existing router.
- **admin_state_up** - (Optional) Administrative up/down status for the router (must be "true" or "false" if provided). Changing this updates the `admin_state_up` of an existing router.
- **distributed** - (Optional) Indicates whether or not to create a distributed router. The default policy setting in Neutron restricts usage of this property to administrative users only.
- **external_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.
- **region** - See Argument Reference above.
- **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

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

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

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create a Neutron subnet. If omitted, the **region** argument of the provider is used. Changing this creates a new subnet.
- **network_id** - (Required) The UUID of the parent network. Changing this creates a new subnet.
- **cidr** - (Required) CIDR representing IP range for this subnet, based on IP version. Changing this creates a new subnet.
- **ip_version** - (Optional) IP version, either 4 (default) or 6. Changing this creates a new subnet.
- **name** - (Optional) The name of the subnet. Changing this updates the name of the existing subnet.
- **tenant_id** - (Optional) The owner of the subnet. Required if admin wants to create a subnet for another tenant. Changing this creates a new subnet.
- **allocation_pools** - (Optional) An array of sub-ranges of CIDR available for dynamic allocation to ports. The **allocation_pool** object structure is documented below. Changing this creates a new subnet.
- **gateway_ip** - (Optional) Default gateway used by devices in this subnet. Leaving this blank and not setting **no_gateway** will cause a default gateway of **.1** to be used. Changing this updates the gateway IP of the existing subnet.
- **no_gateway** - (Optional) Do not set a gateway IP on this subnet. Changing this removes or adds a default gateway IP of the existing subnet.
- **enable_dhcp** - (Optional) The administrative state of the network. 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:

- `region` - See Argument Reference above.
- `network_id` - See Argument Reference above.
- `cidr` - See Argument Reference above.
- `ip_version` - See Argument Reference above.
- `name` - See Argument Reference above.
- `tenant_id` - See Argument Reference above.
- `allocation_pools` - See Argument Reference above.
- `gateway_ip` - See Argument Reference above.
- `enable_dhcp` - See Argument Reference above.
- `dns_nameservers` - See Argument Reference above.
- `host_routes` - See Argument Reference above.

» Import

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

```
$ terraform import opentelekomcloud_networking_subnet_v2.subnet_1 da4faf16-5546-41e4-8330-4
```

» `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

```
resource "opentelekomcloud_networking_secgroup_v2" "secgroup_1" {
  name          = "secgroup_1"
  description   = "My neutron security group"
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a port. If omitted, the **region** argument of the provider is used. Changing this creates a new security group.
- **name** - (Required) A unique name for the security group.
- **description** - (Optional) A unique name for the security group.
- **tenant_id** - (Optional) The owner of the security group. Required if admin wants to create a port for another tenant. Changing this creates a new security group.
- **delete_default_rules** - (Optional) Whether or not to delete the default egress security rules. This is **false** by default. See the below note for more information.

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **name** - See Argument Reference above.
- **description** - See Argument Reference above.
- **tenant_id** - See Argument Reference above.

» Default Security Group Rules

In most cases, 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
```

» opentelekomcloud_networking_secgroup_rule_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`.

» Example Usage

```
resource "opentelekomcloud_networking_secgroup_v2" "secgroup_1" {
  name          = "secgroup_1"
  description   = "My neutron security group"
}

resource "opentelekomcloud_networking_secgroup_rule_v2" "secgroup_rule_1" {
  direction          = "ingress"
  ethertype          = "IPv4"
  protocol            = "tcp"
  port_range_min     = 22
  port_range_max     = 22
  remote_ip_prefix   = "0.0.0.0/0"
  security_group_id = "${opentelekomcloud_networking_secgroup_v2.secgroup_1.id}"
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 networking client. A networking client is needed to create a port. If omitted, the **region** argument of the provider is used. Changing this creates a new security group rule.

- **direction** - (Required) The direction of the rule, valid values are **ingress** or **egress**. Changing this creates a new security group rule.
- **ethertype** - (Required) The layer 3 protocol type, valid values are **IPv4** or **IPv6**. Changing this creates a new security group rule.
- **protocol** - (Optional) The layer 4 protocol type, valid values are following. Changing this creates a new security group rule. This is required if you want to specify a port range.
 - **tcp**
 - **udp**
 - **icmp**
 - **ah**
 - **dccp**
 - **egp**
 - **esp**
 - **gre**
 - **igmp**
 - **ipv6-encap**
 - **ipv6-frag**
 - **ipv6-icmp**
 - **ipv6-nonxt**
 - **ipv6-opts**
 - **ipv6-route**
 - **ospf**
 - **pgm**
 - **rsvp**
 - **sctp**
 - **udplite**
 - **vrrp**
- **port_range_min** - (Optional) The lower part of the allowed port range, valid integer value needs to be between 1 and 65535. Changing this creates a new security group rule.
- **port_range_max** - (Optional) The higher part of the allowed port range, valid integer value needs to be between 1 and 65535. Changing this creates a new security group rule.
- **remote_ip_prefix** - (Optional) The remote CIDR, the value needs to be a valid CIDR (i.e. 192.168.0.0/16). Changing this creates a new security group rule.
- **remote_group_id** - (Optional) The remote group id, the value needs to be an 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.

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **direction** - See Argument Reference above.
- **ethertype** - See Argument Reference above.
- **protocol** - See Argument Reference above.
- **port_range_min** - See Argument Reference above.
- **port_range_max** - See Argument Reference above.
- **remote_ip_prefix** - See Argument Reference above.
- **remote_group_id** - See Argument Reference above.
- **security_group_id** - See Argument Reference above.
- **tenant_id** - See Argument Reference above.

» Import

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

```
$ terraform import opentelekomcloud_networking_secgroup_rule_v2.secgroup_rule_1 aeb68ee3-6e
```

» 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

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an LB member. If omitted, the **region** argument of the provider is used. Changing this creates a new LB member.
- **vip_subnet_id** - (Required) The network on which to allocate the Loadbalancer's address. A tenant can only create Loadbalancers on networks authorized by policy (e.g. networks that belong to them or networks that are shared). Changing this creates a new loadbalancer.
- **name** - (Optional) Human-readable name for the Loadbalancer. Does not have to be unique.
- **description** - (Optional) Human-readable description for the Loadbalancer.
- **tenant_id** - (Optional) Required for admins. The UUID of the tenant who owns the Loadbalancer. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new loadbalancer.
- **vip_address** - (Optional) The ip address of the load balancer. Changing this creates a new loadbalancer.
- **admin_state_up** - (Optional) The administrative state of the Loadbalancer. A valid value is true (UP) or false (DOWN).
- **flavor** - (Optional) The UUID of a flavor. Changing this creates a new loadbalancer.
- **loadbalancer_provider** - (Optional) The name of the provider. Changing this creates a new loadbalancer.
- **security_group_ids** - (Optional) A list of security group IDs to apply to the loadbalancer. The security groups must be specified by ID and not name (as opposed to how they are configured with the Compute Instance).

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **vip_subnet_id** - See Argument Reference above.
- **name** - See Argument Reference above.
- **description** - See Argument Reference above.
- **tenant_id** - See Argument Reference above.
- **vip_address** - See Argument Reference above.
- **admin_state_up** - See Argument Reference above.
- **flavor** - See Argument Reference above.
- **loadbalancer_provider** - See Argument Reference above.
- **security_group_ids** - See Argument Reference above.

- `vip_port_id` - The Port ID of the Load Balancer IP.

» `opentelekomcloud_lb_listener_v2`

Manages a V2 listener resource within OpenTelekomCloud.

» Example Usage

```
resource "opentelekomcloud_lb_listener_v2" "listener_1" {
  protocol      = "HTTP"
  protocol_port = 8080
  loadbalancer_id = "d9415786-5f1a-428b-b35f-2f1523e146d2"
}
```

» Argument Reference

The following arguments are supported:

- `region` - (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the `region` argument of the provider is used. Changing this creates a new Listener.
- `protocol` - (Required) The protocol - can either be TCP, HTTP, HTTPS or TERMINATED_HTTPS. Changing this creates a new Listener.
- `protocol_port` - (Required) The port on which to listen for client traffic. Changing this creates a new Listener.
- `tenant_id` - (Optional) Required for admins. The UUID of the tenant who owns the Listener. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new Listener.
- `loadbalancer_id` - (Required) The load balancer on which to provision this Listener. Changing this creates a new Listener.
- `name` - (Optional) Human-readable name for the Listener. Does not have to be unique.
- `default_pool_id` - (Optional) The ID of the default pool with which the Listener is associated. Changing this creates a new Listener.
- `description` - (Optional) Human-readable description for the Listener.
- `connection_limit` - (Optional) The maximum number of connections allowed for the Listener.

- **default_tls_container_ref** - (Optional) A reference to a Barbican Secrets container which stores TLS information. This is required if the protocol is **TERMINATED_HTTPS**. See here for more information.
- **sni_container_refs** - (Optional) A list of references to Barbican Secrets containers which store SNI information. See here for more information.
- **admin_state_up** - (Optional) The administrative state of the Listener. A valid value is true (UP) or false (DOWN).

» Attributes Reference

The following attributes are exported:

- **id** - The unique ID for the Listener.
- **protocol** - See Argument Reference above.
- **protocol_port** - See Argument Reference above.
- **tenant_id** - See Argument Reference above.
- **name** - See Argument Reference above.
- **default_port_id** - See Argument Reference above.
- **description** - See Argument Reference above.
- **connection_limit** - See Argument Reference above.
- **default_tls_container_ref** - See Argument Reference above.
- **sni_container_refs** - See Argument Reference above.
- **admin_state_up** - See Argument Reference above.

» 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

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the **region** argument of the provider is used. Changing this creates a new pool.
- **tenant_id** - (Optional) Required for admins. The UUID of the tenant who owns the pool. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new pool.
- **name** - (Optional) Human-readable name for the pool.
- **description** - (Optional) Human-readable description for the pool.
- **protocol** = (Required) The protocol - can either be TCP, HTTP or HTTPS. Changing this creates a new pool.
- **loadbalancer_id** - (Optional) The load balancer on which to provision this pool. Changing this creates a new pool. Note: One of LoadbalancerID or ListenerID must be provided.
- **listener_id** - (Optional) The Listener on which the members of the pool will be associated with. Changing this creates a new pool. Note: One of LoadbalancerID or ListenerID must be provided.
- **lb_method** - (Required) The load balancing algorithm to distribute traffic to the pool's members. Must be one of ROUND_ROBIN, LEAST_CONNECTIONS, or SOURCE_IP.
- **persistence** - Omit this field to prevent session persistence. Indicates whether connections in the same session will be processed by the same Pool member or not. Changing this creates a new pool.
- **admin_state_up** - (Optional) The administrative state of the pool. A valid value is true (UP) or false (DOWN).

The **persistence** argument supports:

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

» Attributes Reference

The following attributes are exported:

- **id** - The unique ID for the pool.
- **tenant_id** - See Argument Reference above.

- **name** - See Argument Reference above.
- **description** - See Argument Reference above.
- **protocol** - See Argument Reference above.
- **lb_method** - See Argument Reference above.
- **persistence** - See Argument Reference above.
- **admin_state_up** - See Argument Reference above.

» opentelekomcloud_lb_member_v2

Manages a V2 member resource within OpenTelekomCloud.

» Example Usage

```
resource "opentelekomcloud_lb_member_v2" "member_1" {
  address      = "192.168.199.23"
  protocol_port = 8080
}
```

» Argument Reference

The following arguments are supported:

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

example, a member with a weight of 10 receives five times as much traffic as a member with a weight of 2.

- **admin_state_up** - (Optional) The administrative state of the member. A valid value is true (UP) or false (DOWN).

» Attributes Reference

The following attributes are exported:

- **id** - The unique ID for the member.
- **name** - See Argument Reference above.
- **weight** - See Argument Reference above.
- **admin_state_up** - See Argument Reference above.
- **tenant_id** - See Argument Reference above.
- **subnet_id** - See Argument Reference above.
- **pool_id** - See Argument Reference above.
- **address** - See Argument Reference above.
- **protocol_port** - See Argument Reference above.

» opentelekomcloud_lb_monitor_v2

Manages a V2 monitor resource within OpenTelekomCloud.

» Example Usage

```
resource "opentelekomcloud_lb_monitor_v2" "monitor_1" {
  pool_id      = "${opentelekomcloud_lb_pool_v2.pool_1.id}"
  type         = "PING"
  delay        = 20
  timeout      = 10
  max_retries  = 5
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the V2 Networking client. A Networking client is needed to create an . If omitted, the **region** argument of the provider is used. Changing this creates a new monitor.

- **pool_id** - (Required) The id of the pool that this monitor will be assigned to.
- **name** - (Optional) The Name of the Monitor.
- **tenant_id** - (Optional) Required for admins. The UUID of the tenant who owns the monitor. Only administrative users can specify a tenant UUID other than their own. Changing this creates a new monitor.
- **type** - (Required) The type of probe, which is PING, TCP, HTTP, or HTTPS, that is sent by the load balancer to verify the member state. Changing this creates a new monitor.
- **delay** - (Required) The time, in seconds, between sending probes to members.
- **timeout** - (Required) Maximum number of seconds for a monitor to wait for a ping reply before it times out. The value must be less than the delay value.
- **max_retries** - (Required) Number of permissible ping failures before changing the member's status to INACTIVE. Must be a number between 1 and 10..
- **url_path** - (Optional) Required for HTTP(S) types. URI path that will be accessed if monitor type is HTTP or HTTPS.
- **http_method** - (Optional) Required for HTTP(S) types. The HTTP method used for requests by the monitor. If this attribute is not specified, it defaults to "GET".
- **expected_codes** - (Optional) Required for HTTP(S) types. Expected HTTP codes for a passing HTTP(S) monitor. You can either specify a single status like "200", or a range like "200-202".
- **admin_state_up** - (Optional) The administrative state of the monitor. A valid value is true (UP) or false (DOWN).

» Attributes Reference

The following attributes are exported:

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

- `expected_codes` - See Argument Reference above.
- `admin_state_up` - See Argument Reference above.

» `opentelekomcloud_fw_firewall_group_v2`

Manages a v1 firewall group resource within OpenTelekomCloud.

» Example Usage

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

resource "opentelekomcloud_fw_rule_v2" "rule_2" {
  name           = "my-rule-2"
  description    = "drop NTP traffic"
  action         = "deny"
  protocol       = "udp"
  destination_port = "123"
  enabled        = "false"
}

resource "opentelekomcloud_fw_policy_v2" "policy_1" {
  name = "my-policy"

  rules = ["${opentelekomcloud_fw_rule_v2.rule_1.id}",
    "${opentelekomcloud_fw_rule_v2.rule_2.id}",
  ]
}

resource "opentelekomcloud_fw_firewall_group_v2" "firewall_group_1" {
  name           = "my-firewall-group"
  ingress_policy_id = "${opentelekomcloud_fw_policy_v2.policy_1.id}"
}
```


» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the v1 networking client. A networking client is needed to create a firewall group. If omitted, the **region** argument of the provider is used. Changing this creates a new firewall group.
- **ingress_policy_id** - The ingress policy resource id for the firewall group. Changing this updates the **ingress_policy_id** of an existing firewall group.
- **egress_policy_id** - The egress policy resource id for the firewall group. Changing this updates the **egress_policy_id** of an existing firewall group.
- **name** - (Optional) A name for the firewall group. Changing this updates the **name** of an existing firewall group.
- **description** - (Required) A description for the firewall group. Changing this updates the **description** of an existing firewall group.
- **admin_state_up** - (Optional) Administrative up/down status for the firewall group (must be "true" or "false" if provided - defaults to "true"). Changing this updates the **admin_state_up** of an existing firewall group.
- **tenant_id** - (Optional) The owner of the floating IP. Required if admin wants to create a firewall group for another tenant. Changing this creates a new firewall group.
- **ports** - (Optional) Port(s) to associate this firewall group instance with. Must be a list of strings. Changing this updates the associated routers of an existing firewall group.
- **value_specs** - (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import opentelekomcloud_fw_firewall_group_v2.firewall_group_1 c9e39fb2-ce20-46c8
```

» opentelekomcloud_fw_policy_v2

Manages a v1 firewall policy resource within OpenTelekomCloud.

» Example Usage

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

resource "opentelekomcloud_fw_rule_v2" "rule_2" {
  name           = "my-rule-2"
  description    = "drop NTP traffic"
  action         = "deny"
  protocol       = "udp"
  destination_port = "123"
  enabled        = "false"
}

resource "opentelekomcloud_fw_policy_v2" "policy_1" {
  name = "my-policy"

  rules = [
    "${opentelekomcloud_fw_rule_v2.rule_1.id}",
    "${opentelekomcloud_fw_rule_v2.rule_2.id}",
  ]
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the v1 networking client. A networking client is needed to create a firewall policy. If omitted, the **region** argument of the provider is used. Changing this creates a new firewall policy.
- **name** - (Optional) A name for the firewall policy. Changing this updates the **name** of an existing firewall policy.
- **description** - (Optional) A description for the firewall policy. Changing this updates the **description** of an existing firewall policy.
- **rules** - (Optional) An array of one or more firewall rules that comprise the policy. Changing this results in adding/removing rules from the existing firewall policy.
- **audited** - (Optional) Audit status of the firewall policy (must be "true" or "false" if provided - defaults to "false"). This status is set to "false" whenever the firewall policy or any of its rules are changed. Changing this updates the **audited** status of an existing firewall policy.
- **shared** - (Optional) Sharing status of the firewall policy (must be "true" or "false" if provided). If this is "true" the policy is visible to, and can be used in, firewalls in other tenants. Changing this updates the **shared** status of an existing firewall policy. Only administrative users can specify if the policy should be shared.
- **value_specs** - (Optional) Map of additional options.

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import opentelekomcloud_fw_policy_v2.policy_1 07f422e6-c596-474b-8b94-fe2c12506
```

» opentelekomcloud_fw_rule_v2

Manages a v2 firewall rule resource within OpenTelekomCloud.

» Example Usage

```
resource "opentelekomcloud_fw_rule_v2" "rule_1" {
  name           = "my_rule"
  description    = "drop TELNET traffic"
  action         = "deny"
  protocol       = "tcp"
  destination_port = "23"
  enabled        = "true"
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to obtain the v1 Compute client. A Compute client is needed to create a firewall rule. If omitted, the **region** argument of the provider is used. Changing this creates a new firewall rule.
- **name** - (Optional) A unique name for the firewall rule. Changing this updates the **name** of an existing firewall rule.
- **description** - (Optional) A description for the firewall rule. Changing this updates the **description** of an existing firewall rule.
- **protocol** - (Required) The protocol type on which the firewall rule operates. Valid values are: **tcp**, **udp**, **icmp**, and **any**. Changing this updates the **protocol** of an existing firewall rule.
- **action** - (Required) Action to be taken (must be "allow" or "deny") when the firewall rule matches. Changing this updates the **action** of an existing firewall rule.
- **ip_version** - (Optional) IP version, either 4 (default) or 6. Changing this updates the **ip_version** of an existing firewall rule.
- **source_ip_address** - (Optional) The source IP address on which the firewall rule operates. Changing this updates the **source_ip_address** of an existing firewall rule.
- **destination_ip_address** - (Optional) The destination IP address on which the firewall rule operates. Changing this updates the **destination_ip_address** of an existing firewall rule.

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

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **name** - See Argument Reference above.
- **description** - See Argument Reference above.
- **protocol** - See Argument Reference above.
- **action** - See Argument Reference above.
- **ip_version** - See Argument Reference above.
- **source_ip_address** - See Argument Reference above.
- **destination_ip_address** - See Argument Reference above.
- **source_port** - See Argument Reference above.
- **destination_port** - See Argument Reference above.
- **enabled** - See Argument Reference above.
- **tenant_id** - See Argument Reference above.

» Import

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

```
$ terraform import 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" {
  region = "eu-de"
  datastore_name = "PostgreSQL"
  datastore_version = "9.5.5"
  speccode = "rds.pg.s1.large"
}

resource "opentelekomcloud_compute_secgroup_v2" "secgrp_rds" {
  name      = "secgrp-rds-instance"
  description = "Rds Security Group"
}

resource "opentelekomcloud_rds_instance_v1" "instance" {
  name = "rds-instance"
  datastore {
    type = "PostgreSQL"
    version = "9.5.5"
  }
  flavorref = "${data.opentelekomcloud_rds_flavors_v1.flavor.id}"
  volume {
    type = "COMMON"
    size = 200
  }
  region = "eu-de"
  availabilityzone = "eu-de-01"
  vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
  nics {
    subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
  }
  securitygroup {
    id = "${opentelekomcloud_compute_secgroup_v2.secgrp_rds.id}"
  }
  dbport = "8635"
  backupstrategy = {
    starttime = "04:00:00"
    keepdays = 4
  }
  dbbrtpd = "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" {
  region = "eu-de"
  datastore_name = "SQLServer"
  datastore_version = "2014 SP2 SE"
  speccode = "rds.mssql.s1.2xlarge"
}

resource "opentelekomcloud_compute_secgroup_v2" "secgrp_rds" {
  name      = "secgrp-rds-instance"
  description = "Rds Security Group"
}

resource "opentelekomcloud_rds_instance_v1" "instance" {
  name = "rds-instance"
  datastore {
    type = "SQLServer"
    version = "2014 SP2 SE"
  }
  flavorref = "${data.opentelekomcloud_rds_flavors_v1.flavor.id}"
  volume {
    type = "COMMON"
    size = 200
  }
  region = "eu-de"
  availabilityzone = "eu-de-01"
  vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
  nics {
    subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
  }
  securitygroup {
    id = "${opentelekomcloud_compute_secgroup_v2.secgrp_rds.id}"
  }
  dbport = "8635"
  backupstrategy = {
    starttime = "04:00:00"
    keepdays = 4
  }
  dbrtpld = "Huangwei!120521"
  depends_on = ["opentelekomcloud_compute_secgroup_v2.secgrp_rds"]
}
```

» Example Usage: Creating a MySQL RDS instance

```
data "opentelekomcloud_rds_flavors_v1" "flavor" {
  region = "eu-de"
  datastore_name = "MySQL"
  datastore_version = "5.6.33"
  speccode = "rds.mysql.s1.medium"
}

resource "opentelekomcloud_compute_secgroup_v2" "secgrp_rds" {
  name      = "secgrp-rds-instance"
  description = "Rds Security Group"
}

resource "opentelekomcloud_rds_instance_v1" "instance" {
  name = "rds-instance"
  datastore {
    type = "MySQL"
    version = "5.6.33"
  }
  flavorref = "${data.opentelekomcloud_rds_flavors_v1.flavor.id}"
  volume {
    type = "COMMON"
    size = 200
  }
  region = "eu-de"
  availabilityzone = "eu-de-01"
  vpc = "c1095fe7-03df-4205-ad2d-6f4c181d436e"
  nics {
    subnetid = "b65f8d25-c533-47e2-8601-cfaa265a3e3e"
  }
  securitygroup {
    id = "${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"]
}
```


}

» Argument Reference

The following arguments are supported:

- **name** - (Required) Specifies the DB instance name. The DB instance name of the same type is unique in the same tenant.
- **datastore** - (Required) Specifies database information. The structure is described below.
- **flavorref** - (Required) Specifies the specification ID (flavors.id in the response message in Obtaining All DB Instance Specifications).
- **volume** - (Required) Specifies the volume information. The structure is described below.
- **region** - (Required) Specifies the region ID.
- **availabilityzone** - (Required) Specifies the ID of the AZ.
- **vpc** - (Required) Specifies the VPC ID. For details about how to obtain this parameter value, see section "Virtual Private Cloud" in the Virtual Private Cloud API Reference.
- **nics** - (Required) Specifies the nics information. For details about how to obtain this parameter value, see section "Subnet" in the Virtual Private Cloud API Reference. The structure is described below.
- **securitygroup** - (Required) Specifies the security group which the RDS DB instance belongs to. The structure is described below.
- **dbport** - (Optional) Specifies the database port number.
- **backupstrategy** - (Optional) Specifies the advanced backup policy. The structure is described below.
- **dbrootpwd** - (Required) Specifies the password for user root of the database.
- **ha** - (Optional) Specifies the parameters configured on HA and is used when creating HA DB instances. The structure is described below. NOTICE: RDS for Microsoft SQL Server does not support creating HA DB instances and this parameter is not involved.

The **datastore** block supports:

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

- Available value for attributes

type	version
PostgreSQL	9.5.5
	9.6.3
	9.6.5
MySQL	5.6.33
	5.6.30
	5.6.34
	5.6.35
	5.6.36
	5.7.17
SQLServer	5.7.20
	2014 SP2 SE

The **volume** block supports:

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

The **nics** block supports:

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

The **securitygroup** block supports:

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

The **backupstrategy** block supports:

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

The **ha** block supports:

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

is async or semisync. For PostgreSQL, the value is async or sync.

» Attributes Reference

The following attributes are exported:

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

» 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 {
    Name           = "My bucket"
    Environment    = "Dev"
  }
}
```

» Static Website Hosting

```
resource "opentelekomcloud_s3_bucket" "b" {
  bucket = "s3-website-test.hashicorp.com"
  acl    = "public-read"
  policy = "${file("policy.json")}"

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

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

» Using CORS

```
resource "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"
  acl     = "private"

  versioning {
    enabled = true
  }
}

```

» Enable Logging

```

resource "opentelekomcloud_s3_bucket" "log_bucket" {
  bucket = "my-tf-log-bucket"
  acl     = "log-delivery-write"
}

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

  logging {
    target_bucket = "${opentelekomcloud_s3_bucket.log_bucket.id}"
    target_prefix = "log/"
  }
}

```

» Using object lifecycle

```

resource "opentelekomcloud_s3_bucket" "bucket" {
  bucket = "my-bucket"
  acl     = "private"
}

```

```

lifecycle_rule {
  id      = "log"
  enabled = true

  prefix = "log/"
  tags {
    "rule"      = "log"
    "autoclean" = "true"
  }

  expiration {
    days = 90
  }
}

lifecycle_rule {
  id      = "tmp"
  prefix  = "tmp/"
  enabled = true

  expiration {
    date = "2016-01-12"
  }
}
}

resource "opentelekomcloud_s3_bucket" "versioning_bucket" {
  bucket = "my-versioning-bucket"
  acl    = "private"

  versioning {
    enabled = true
  }

  lifecycle_rule {
    prefix = "config/"
    enabled = true
  }
}

```

» Argument Reference

The following arguments are supported:

- `bucket` - (Optional, Forces new resource) The name of the bucket. If

omitted, Terraform will assign a random, unique name.

- **bucket_prefix** - (Optional, Forces new resource) Creates a unique bucket name beginning with the specified prefix. Conflicts with **bucket**.
- **acl** - (Optional) The canned ACL to apply. Defaults to "private".
- **policy** - (Optional) A valid bucket policy JSON document. Note that if the policy document is not specific enough (but still valid), Terraform may view the policy as constantly changing in a **terraform plan**. In this case, please make sure you use the verbose/specific version of the policy.
- **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).
- **region** - (Optional) If specified, the AWS region this bucket should reside in. Otherwise, the region used by the callee.

The **website** object supports the following:

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

The **CORS** object supports the following:

- **allowed_headers** (Optional) Specifies which headers are allowed.
- **allowed_methods** (Required) Specifies which methods are allowed. Can be GET, PUT, POST, DELETE or HEAD.
- **allowed_origins** (Required) Specifies which origins are allowed.

- **expose_headers** (Optional) Specifies expose header in the response.
- **max_age_seconds** (Optional) Specifies time in seconds that browser can cache the response for a preflight request.

The **versioning** object supports the following:

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

The **logging** object supports the following:

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

The **lifecycle_rule** object supports the following:

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

At least one of **expiration**, **noncurrent_version_expiration** must be specified.

The **expiration** object supports the following

- **date** (Optional) Specifies the date after which you want the corresponding action to take effect.
- **days** (Optional) Specifies the number of days after object creation when the specific rule action takes effect.
- **expired_object_delete_marker** (Optional) On a versioned bucket (versioning-enabled or versioning-suspended bucket), you can add this element in the lifecycle configuration to direct Amazon S3 to delete expired object delete markers.

The **noncurrent_version_expiration** object supports the following

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

The **rules** object supports the following:

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

The **destination** object supports the following:

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

» Attributes Reference

The following attributes are exported:

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

» Import

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

```
$ terraform import 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 = "examplebucket" 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 = "examplebucket"
  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"
}
```

» Argument Reference

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 w3c **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".
- **tags** - (Optional) A mapping of tags to assign to the object.

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
}
```

» Argument Reference

The following arguments are supported:

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

» opentelekomcloud__kms__key__v1

Manages a V1 key resource within KMS.

» Example Usage

```
resource "opentelekomcloud_kms_key_v1" "key_1" {  
  key_alias      = "key_1"  
  pending_days   = "7"  
  key_description = "first test key"  
  realm          = "cn-north-1"  
  is_enabled     = true  
}
```

» Argument Reference

The following arguments are supported:

- **key_alias** - (Required) The alias in which to create the key. It is required when we create a new key. Changing this updates the alias of key.
- **key_description** - (Optional) The description of the key as viewed in 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. It doesn't have default value. It only be used when delete a key.
- **is_enabled** - (Optional) Specifies whether the key is enabled. Defaults to true. Changing this updates the state of existing key.

» Attributes Reference

The following attributes are exported:

- **key_alias** - See Argument Reference above.
- **key_description** - See Argument Reference above.
- **realm** - See Argument Reference above.
- **key_id** - The globally unique identifier for the key.
- **default_key_flag** - Identification of a Master Key. The value 1 indicates a Default Master Key, and the value 0 indicates a key.
- **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" {
  name          = "topic_1"
  display_name  = "The display name of topic_1"
}

resource "opentelekomcloud_smn_subscription_v2" "subscription_1" {
  topic_urn      = "${opentelekomcloud_smn_topic_v2.topic_1.id}"
  endpoint       = "mailto:mailtest@gmail.com"
  protocol       = "email"
  remark        = "O&M"
}

resource "opentelekomcloud_smn_subscription_v2" "subscription_2" {
  topic_urn      = "${opentelekomcloud_smn_topic_v2.topic_1.id}"
  endpoint       = "13600000000"
  protocol       = "sms"
  remark        = "O&M"
}
```

» Argument Reference

The following arguments are supported:

- `topic_urn` - (Required) Resource identifier of a topic, which is unique.
- `endpoint` - (Required) Message endpoint. For an HTTP subscription, the endpoint starts with `http://`. For an HTTPS subscription, the endpoint starts with `https://`. For an email subscription, the endpoint is a mail address. For an SMS message subscription, the endpoint is a phone number.

- **protocol** - (Required) Protocol of the message endpoint. Currently, email, sms, http, and https are supported.
- **remark** - (Optional) Remark information. The remarks must be a UTF-8-coded character string containing 128 bytes.
- **subscription_urn** - (Optional) Resource identifier of a subscription, which is unique.
- **owner** - (Optional) Project ID of the topic creator.
- **status** - (Optional) Subscription status. 0 indicates that the subscription is not confirmed. 1 indicates that the subscription is confirmed. 3 indicates that the subscription is canceled.

» Attributes Reference

The following attributes are exported:

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

» opentelekomcloud_smn_subscription_v2

Manages a V2 subscription resource within OpenTelekomCloud.

» Example Usage

```
resource "opentelekomcloud_smn_topic_v2" "topic_1" {
  name          = "topic_1"
  display_name  = "The display name of topic_1"
}

resource "opentelekomcloud_smn_subscription_v2" "subscription_1" {
  topic_urn      = "${opentelekomcloud_smn_topic_v2.topic_1.id}"
  endpoint       = "mailto:mailtest@gmail.com"
  protocol       = "email"
  remark         = "O&M"
}
```

```
resource "opentelekomcloud_smn_subscription_v2" "subscription_2" {
  topic_urn      = "${opentelekomcloud_smn_topic_v2.topic_1.id}"
  endpoint       = "13600000000"
  protocol       = "sms"
  remark         = "O&M"
}
```

» Argument Reference

The following arguments are supported:

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

» Attributes Reference

The following attributes are exported:

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

» 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"  
  }  
}
```

» Argument Reference

The following arguments are supported:

- **region** - (Optional) The region in which to create the eip. If omitted, the **region** argument of the provider is used. Changing this creates a new eip.
- **publicip** - (Required) The elastic IP address object.
- **bandwidth** - (Required) The bandwidth object.

The **publicip** block supports:

- **type** - (Required) The value must be a type supported by the system. Only **5_bgp** supported now. Changing this creates a new eip.
- **ip_address** - (Optional) The value must be a valid IP address in the available IP address segment. Changing this creates a new eip.
- **port_id** - (Optional) The port id which this eip will associate with. If the value is "" or this not specified, the eip will be in unbind state.

The **bandwidth** block supports:

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

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

» Attributes Reference

The following attributes are exported:

- **region** - See Argument Reference above.
- **publicip/type** - See Argument Reference above.
- **publicip/ip_address** - See Argument Reference above.
- **publicip/port_id** - See Argument Reference above.
- **bandwidth/name** - See Argument Reference above.
- **bandwidth/size** - See Argument Reference above.
- **bandwidth/charge_type** - See Argument Reference above.
- **bandwidth/charge_mode** - See Argument Reference above.

» Import

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

```
$ terraform import opentelekomcloud_vpc_eip_v1.eip_1 2c7f39f3-702b-48d1-940c-b50384177ee1
```