# » alicloud\_regions

The Regions data source allows access to the list of Alicloud Regions.

### » Example Usage

```
data "alicloud_regions" "current" {
    current = true
}
```

## » Argument Reference

The following arguments are supported:

- name (Optional) The full name of the region to select.
- current (Optional) Set to true to match only the region configured in the provider.
- output\_file (Optional) The name of file that can save regions data source after running terraform plan.

#### » Attributes Reference

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

- id ID of the region.
- local\_name Name of the region in the local language.

# » alicloud\_instance\_types

The Instance Types data source list the ecs\_instance\_types of Alicloud.

**NOTE:** Default to provide upgraded instance types. If you want to get outdated instance types, you should set <code>is\_outdated</code> to true.

**NOTE:** If one instance type is sold out, it will not be exported.

# » Example Usage

```
# Declare the data source
data "alicloud_instance_types" "1c2g" {
  cpu_core_count = 1
```

```
memory_size = 2
}

# Create ecs instance with the first matched instance_type

resource "alicloud_instance" "instance" {
   instance_type = "${data.alicloud_instance_types.1c2g.instance_types.0.id}"

   # Other properties...
}
```

The following arguments are supported:

- availability\_zone (Optional) The Zone that supports available instance types.
- cpu\_core\_count (Optional) Limit search to specific cpu core count.
- memory\_size (Optional) Limit search to specific memory size.
- instance\_type\_family (Optional) Allows to filter list of Instance Types based on their family name, for example 'ecs.n4'.
- instance\_charge\_type (Optional) According to ECS instance charge type to filter all results. Valid values: PrePaid and PostPaid. Default to PostPaid.
- network\_type (Optional) According to network type to filter all results. Valid values: Classic and Vpc.
- spot\_strategy - (Optional) According to ECS spot type to filter all results. Valid values: NoSpot, SpotWithPriceLimit and SpotAsPriceGo. Default to NoSpot.
- is\_outdated (Optional) Whether to export outdated instance types. Default to false.
- output\_file (Optional) The name of file that can save instance types data source after running terraform plan.

#### » Attributes Reference

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

- id ID of the instance type.
- cpu\_core\_count Number of CPU cores.
- memory\_size Size of memory, measured in GB.
- family The instance type family.

- availability\_zones List of availability zones which support the instance types.
- gpu The GPU attribution of an instance type:
  - amount The amount of GPU of an instance type.
  - category The category of GPU of an instance type.
- burstable\_instance The burstable instance's attribution:
  - initial\_credit The initial CPU credit of a burstable instance
  - baseline\_credit The compute performance benchmark CPU credit of a burstable instance
- eni\_amount The maximum number of network interface that an instance type can be attached to.
- local\_storage Local storage of an instance type:
  - capacity The capacity of a local storage
  - amount The number of local storages that an instance has been attached to
  - category The category of local storage that an instance has been attached to

# » alicloud\_images

The Images data source list image resource list contains private images of the user and images of system resources provided by Alicloud, as well as other public images and those available on the image market.

### » Example Usage

```
data "alicloud_images" "multi_image" {
   owners = "system"
   name_regex = "^centos_6"
}
```

### » Argument Reference

- name\_regex (Optional) A regex string to apply to the image list returned by Alicloud.
- most\_recent (Optional) If more than one result is returned, use the most recent image.

- owners (Optional) Limit search to specific image owners. Valid items are system, self, others, marketplace.
- output\_file (Optional) The name of file that can save images data source after running terraform plan.

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

- id ID of the image.
- architecture Platform type of the image system:i386 | x86\_64.
- creation\_time Time of creation.
- description Description of the image.
- image owner alias Alias of the image owner.
- os\_name Display name of the OS.
- status Status of the image, with possible values: UnAvailable, Available, Creating or CreateFailed.
- size Size of the image.
- disk\_device\_mappings Description of the system with disks and snapshots under an image.
  - device Device information of the created disk: such as /dev/xvdb.
  - size Size of the created disk.
  - snapshot\_id Snapshot ID.
- product\_code Product code of the image on the image market.
- is\_subscribed Whether the user has subscribed to the terms of service for the image product corresponding to the ProductCode.
- image version Version of the image.
- progress Progress of image creation, presented in percentages.

## » alicloud zones

The Zones data source allows access to the list of Alicloud Zones which can be accessed by an Alicloud account within the region configured in the provider.

**NOTE:** If one zone is sold out, it will not be exported.

### » Example Usage

```
# Declare the data source
data "alicloud_zones" "default" {
    "available_instance_type"= "ecs.n4.large"
    "available_disk_category"= "cloud_ssd"
```

```
# Create ecs instance with the first matched zone

resource "alicloud_instance" "instance" {
   availability_zone = "${data.alicloud_zones.default.zones.0.id}"

# Other properties...
}
```

The following arguments are supported:

- available\_instance\_type (Optional) Limit search to specific instance type.
- available\_resource\_creation (Optional) Limit search to specific resource type. The following values are allowed Instance, Disk, VSwitch and Rds.
- available\_disk\_category (Optional) Limit search to specific disk category. Can be either cloud, cloud\_efficiency, cloud\_ssd.
- multi (Optional) Whether to retrieve multiple availability. Default to false. Multiple zone usually is used to launch RDS.
- instance\_charge\_type (Optional) According to ECS instance charge type to filter all availability zones. Valid values: PrePaid and PostPaid. Default to PostPaid.
- network\_type (Optional) According to network type to filter all availability zones. Valid values: Classic and Vpc.
- spot\_strategy - (Optional) According to ECS spot type to filter all availability zones. Valid values: NoSpot, SpotWithPriceLimit and SpotAsPriceGo. Default to NoSpot.
- output\_file (Optional) The name of file that can save zones data source after running terraform plan.

**NOTE:** Available disk category cloud has been outdated and it only can be used none I/O Optimized ECS instances. So many available zones haven't support it. Recommend cloud\_efficiency and cloud\_ssd.

### » Attributes Reference

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

- id ID of the zone.
- local\_name Name of the zone in the local language.

- available\_instance\_types Instance types allowed.
- available\_resource\_creation Type of resource that can be created.
- available\_disk\_categories Set of supported disk categories.

# » alicloud\_key\_pairs

The Key Pairs data source provides a list of Alicloud Key Pairs in an Alicloud account according to the specified filters.

### » Example Usage

```
# Declare the data source
data "alicloud_key_pairs" "name_regex" {
    name_regex = "test"
    output_file = "my_key_pairs.json"
}
# Bind a key pair for several ecs instances using the first matched key pair
resource "alicloud_key_pair_attachment" "attachment" {
    key_name = "${data.alicloud_key_pairs.default.key_pairs.0.id}"
    instance_ids = [...]
}
```

## » Argument Reference

The following arguments are supported:

- name\_regex A regex string to apply to the key pair list returned by Alicloud.
- finger\_print A finger print used to retrieve specified key pair.
- output\_file (Optional) The name of file that can save key pairs data source after running terraform plan.

#### » Attributes Reference

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

- id ID of the key pair.
- key\_name Name of the key pair.
- finger\_print Finger print of the key pair.

- instances A List of ECS instances that has been bound a specified key pair.
  - availability\_zone The ID of availability zone that ECS instance launched.
  - instance\_id The ID of ECS instance.
  - instance\_name The name of ECS instance.
  - vswitch\_id The ID of VSwitch that ECS instance launched.
  - public\_ip The public IP address or EIP of the ECS instance.
  - private\_ip The private IP address of the ECS instance.

# » alicloud kms keys

The KMS keys data source provides a list of Alicloud KMS keys in an Alicloud account according to the specified filters.

## » Example Usage

```
# Declare the data source
data "alicloud_kms_keys" "keys" {
    description_regex = "Hello KMS"
    output_file = "kms_keys.json"
}
```

### » Argument Reference

The following arguments are supported:

- ids (Optional) A list of KMS key ID.
- description\_regex (Optional) A regex string of the KMS key description.
- status (Optional) The status of KMS key. Valid values: "Enabled", "Disabled", "PendingDeletion". Default to nil to get all keys.
- output\_file (Optional) The name of file that can save KMS keys data source after running terraform plan.

### » Attributes Reference

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

- id ID of the key.
- arn The Alicloud Resource Name (ARN) of the key.

- description Description of the key.
- status Status of the key, with possible values: "Enabled", "Disabled", "PendingDeletion".
- creation\_date Creation date of key.
- delete\_date Delete date of key.
- creator The createor to key belongs.

## » alicloud instances

The Instances data source list ECS instance resource according to its ID, name regex, image id, status and other fields.

### » Example Usage

```
data "alicloud_instances" "instances" {
    name_regex = "web_server"
    status = "Running"
}
```

# » Argument Reference

The following arguments are supported:

- ids (Optional) A list of ECS instance ID.
- name\_regex (Optional) A regex string to apply to the instance list returned by Alicloud.
- image\_id (Optional) The image ID of some ECS instance used.
- status (Optional) List specified status instances. Valid values: "Creating", "Starting", "Running", "Stopping" and "Stopped". Default to list all status.
- vpc id (Optional) List several instances in the specified VPC.
- vswitch id (Optional) List several instances in the specified VSwitch.
- availability\_zone (Optional) List several instances in the specified availability zone.
- tags (Optional) A mapping of tags marked ECS instances.
- output\_file (Optional) The name of file that can save instances data source after running terraform plan.

#### » Attributes Reference

 instances A list of instances. It contains several attributes to Block Instances.

#### » Block Instances

Attributes for instanes:

- id ID of the instance.
- region\_id Region Id the instance belongs.
- availability\_zone Availability zone the instance belongs.
- status Instance current status.
- name Instance name.
- description Instance description.
- instance\_type Instance type.
- vpc\_id VPC ID the instance belongs.
- vswitch\_id VSwitch ID the instance belongs.
- image\_id Image id the instance used.
- private\_ip Instance private IP address.
- public\_ip Instance public IP address.
- eip EIP address the VPC instance used.
- security\_groups List security group ID the instance belongs.
- key\_name Key pair the instance used.
- creation\_time Instance creation time.
- instance\_charge\_type Instance charge type.
- internet\_charge\_type Instance network charge type.
- internet\_max\_bandwidth\_out Instance internet out max bandwidth
- spot\_strategy Spot strategy the instance used.
- disk\_device\_mappings Description of the disk the instance attached.
  - device Device information of the created disk: such as /dev/xvdb.
  - size Size of the created disk.
  - category Cloud disk category.
  - type Cloud disk type. System disk or data disk.
- tags A mapping of tags marked ECS instances.

# » alicloud\_vpcs

The VPCs data source lists a number of VPCs resource information owned by an Alicloud account.

### » Example Usage

```
data "alicloud_vpcs" "multi_vpc"{
    cidr_block="172.16.0.0/12"
```

```
status="Available"
name_regex="^foo"
}
```

The following arguments are supported:

- cidr\_block (Optional) Limit search to specific cidr block,like "172.16.0.0/12".
- status (Optional) Limit search to specific status valid value is "Pending" or "Available".
- name\_regex (Optional) A regex string of VPC name.
- is\_default (Optional) Whether the VPC is the default VPC in the specified region valid value is true or false.
- vswitch\_id (Optional) Retrieving VPC according to the specified VSwitch.
- output\_file (Optional) The name of file that can save vpcs data source after running terraform plan.

#### » Attributes Reference

The following attributes are exported:

- id ID of the VPC.
- region\_id ID of the region where VPC belongs.
- status Status of the VPC.
- vpc\_name Name of the VPC.
- vswitch\_ids List of VSwitch IDs in the specified VPC
- cidr\_block CIDR block of the VPC.
- vrouter\_id ID of the VRouter
- route\_table\_id Route table ID of the VRouter
- description Description of the VPC
- is\_default Whether the VPC is the default VPC in the belonging region.
- creation\_time Time of creation.

### » alicloud vswitches

The Virtual sunbet data source lists a list of vswitches resource information owned by an Alicloud account, and each vswitch including its basic attribution, VPC ID and containing ECS instance IDs.

### » Example Usage

```
data "alicloud_vswitches" "subnets"{
    cidr_block="172.16.0.0/12"
    name_regex="^foo"
}

resource "alicloud_instance" "foo" {
    ...
    instance_name = "in-the-vpc"
    vswitch_id = "${data.alicloud_vswitches.subnets.vswitches.0.id}"
    ...
}
```

### » Argument Reference

The following arguments are supported:

- cidr\_block (Optional) Limit search to specific cidr block, like "172.16.0.0/12".
- zone\_id (Optional) The availability zone for one vswitch.
- name\_regex (Optional) A regex string of VSwitch name.
- is\_default (Optional) Whether the Vswitch is created by system valid value is true or false.
- vpc\_id (Optional) VPC ID in which vswitch belongs.
- output\_file (Optional) The name of file that can save vswitches data source after running terraform plan.

#### » Attributes Reference

The following attributes are exported:

 vswitches A list of vswitches. It contains several attributes to Block VSwitches.

#### » Block VSwitches

Attributes for vswitches:

- id ID of the VSwitch.
- zone\_id ID of the availability zone where VSwitch belongs.
- vpc\_id ID of the VPC where VSwitch belongs.
- name Name of the VSwitch.
- instance\_ids List of ECS instance IDs in the specified VSwitch.
- cidr\_block CIDR block of the VSwitch.

- description Description of the VSwitch
- is\_default Whether the VSwitch is the default VSwitch in the belonging region.
- creation\_time Time of creation.

# » alicloud\_eips

The elastic ip address data source lists a list of eips resource information owned by an Alicloud account, and each EIP including its basic attribution and association instance.

# » Example Usage

```
data "alicloud_eips" "eips"{
    cidr_block="172.16.0.0/12"
    name_regex="^foo"
}

resource "alicloud_instance" "foo" {
    ...
    instance_name = "in-the-eip"
    vswitch_id = "vsw-abc123456"
    ...
}

resource "alicloud_eip_association" "asso" {
    instance_id = "${alicloud_instance.foo.id}"
    allocation_id = "${data.alicloud_eips.eips.0.id}"
}
```

### » Argument Reference

- ids (Optional) A list of EIP allocation ID.
- ip\_addresses (Optional) A list of EIP ip address ID.
- in\_use (Deprecated) It has been deprecated from provider version 1.8.0.
- output\_file (Optional) The name of file that can save eips data source after running terraform plan.

The following attributes are exported:

• eips A list of eips. It contains several attributes to Block EIPs.

#### » Block EIPs

Attributes for eips:

- id ID of the EIP.
- status EIP status.
- ip\_address Address of the the EIP.
- bandwidth EIP internat max bandwidth.
- internet\_charge\_type EIP internet charge type.
- instance\_id ID of the instance with which EIP association.
- instance\_id Type of the instance with which EIP association.
- creation\_time Time of creation.

# » alicloud\_security\_groups

The Security Groups data source provides a list of Security Groups in an Alicloud account according to the specified filters.

### » Example Usage

```
# Filter security groups and output to a file

data "alicloud_security_groups" "web" {
   name_regex = "^web-"
   output_file = "web_access.json"
}

# in conjunction with vpc

resource "alicloud_vpc" "primary" {
   ...
}

data "alicloud_security_groups" "primary_groups" {
   vpc_id = "${alicloud_vpc.primary.id}"
}
```

The following arguments are supported:

- name\_regex (Optional) A regex string to apply to the security groups list returned by Alicloud.
- vpc\_id (Optional) Used to retrieve security groups belong to specified VPC ID.
- output\_file (Optional) The name of file that can save security groups data source after running terraform plan.

#### » Attributes Reference

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

- id The ID of the security group.
- name The name of the security group.
- description The description of the security group.
- vpc\_id The ID of the VPC.
- inner\_access Whether to allow inner network access.
- creation\_time Creation time of the security group.

# » alicloud\_security\_group\_rules

The alicloud\_security\_group\_rules data source provides a collection of security permissions of a specific security group. Each collection item represents a single ingress or egress permission rule. The id of the security group can be provided via variable or filtered by another data source alicloud\_security\_groups.

#### » Example Usage

The following example shows how to obtain details of the security group rule and passing the data to the instance at launch.

```
# accept a security group id as a variable
variable "security_group_id" {}
# or filter using data source
# note the filter must select only one specific group
data "alicloud_security_groups" "api" {
```

The following arguments are supported:

- group\_id (Required) The id of security group wich owns the rules.
- nic\_type (Optional) Refers to the network type. Can be either internet or intranet. The default value is internet.
- direction (Optional) Authorization direction, ingress or egress.
- ip\_protocol (Optional) The protocol. Can be tcp, udp, icmp, gre or all.
- policy (Optional) Authorization policy. Can be either accept or drop. The default value is accept.
- output\_file (Optional) The name of file that can save security group rules after running terraform plan.

#### » Attributes Reference

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

- group name The name of the security group which owns the rules.
- group\_desc The description of the security group which owns the rules.
- rules A list of security group rules. Its every element contains the following attributes:
  - ip\_protocol The protocol. Can be tcp, udp, icmp, gre or all.
  - port\_range The range of port numbers.

- source\_cidr\_ip Source ip address segment for ingress authorization
- source\_security\_group\_id Source security group id for ingress authorization.
- source\_group\_owner\_account Alibaba Cloud account of the source security group.
- dest\_cidr\_ip Target ip address segment for egress authorization.
- dest\_security\_group\_id Target security group id for ingress authorization.
- dest\_group\_owner\_account Alibaba Cloud account of the target security group.
- policy Authorization policy. Can be either accept or drop.
- nic\_type Network type, internet or intranet.
- priority Rule priority.
- direction Authorization direction, ingress or egress.
- description The description of the rule.

## » alicloud\_db\_instances

The alicloud\_db\_instances data source provides a collection of RDS instances available in Alicloud account. Filters support regular expression for the instance name, searches by tags, and other filters which are listed below.

### » Example Usage

```
data "alicloud_db_instances" "dbs" {
  name_regex = "data-\\d+"
  status = "Running"
  tags = <<EOF
{
    "type": "database",
    "size": "tiny"
}
EOF
}</pre>
```

### » Argument Reference

- name\_regex (Optional) A regex string to apply to the instance name.
- engine (Optional) Database type. Options are MySQL, SQLServer, PostgreSQL and PPAS. If no value is specified, all types are returned.

- status (Optional) Status of the instance.
- db\_type (Optional) Primary for primary instance, ReadOnly for readonly instance, Guard for disaster recovery instance, and Temp for temporary instance.
- vpc\_id (Optional) Used to retrieve instances belong to specified VPC.
- vswitch\_id (Optional) Used to retrieve instances belong to specified vswitch resources.
- connection\_mode (Optional) Standard for standard access mode and Safe for high security access mode.
- tags (Optional) Query the instance bound to the tag. The format of the incoming value is json string, including TagKey and TagValue. TagKey cannot be null, and TagValue can be empty. Format example {"key1":"value1"}.
- output\_file (Optional) The name of file that can save the collection of instances after running terraform plan.

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

- instances A list of RDS instances. Its every element contains the following attributes:
  - id The ID of the RDS instance.
  - name The name of the RDS instance.
  - charge\_type Billing method. Value options: Postpaid for Pay-As-You-Go and Prepaid for subscription.
  - db\_type Primary for primary instance, ReadOnly for read-only instance, Guard for disaster recovery instance, and Temp for temporary instance.
  - region id Region ID the instance belongs to.
  - create\_time Creation time of the instance.
  - expire\_time Expiration time. Pay-As-You-Go instances are never expire.
  - status Status of the instance.
  - engine Database type. Options are MySQL, SQLServer, PostgreSQL and PPAS. If no value is specified, all types are returned.
  - engine\_version Database version.
  - net\_type Internet for public network or Intranet for private network.
  - connection\_mode Standard for standard access mode and Safe for high security access mode.
  - $-\,$  instance\_type Sizing of the RDS instance.
  - availability\_zone Availability zone.
  - master\_instance\_id ID of the primary instance. If this parameter is not returned, the current instance is a primary instance.

- guard\_instance\_id If a disaster recovery instance is attached to the current instance, the ID of the disaster recovery instance applies.
- temp\_instance\_id If a temporary instance is attached to the current instance, the ID of the temporary instance applies.
- readonly\_instance\_ids A list of the ID's of read-only instances attached to the primary instance.
- vpc\_id VPC ID the instance belongs to.
- vswitch\_id VSwitch ID the instance belongs to.

# » alicloud\_dns\_domain\_groups

**NOTE:** This datasource has been deprecated from v1.3.2. New datasource alicloud\_dns\_groups will replace.

# » alicloud dns domain records

**NOTE:** This resource has been deprecated from v1.3.2. New datasource alicloud\_dns\_records will replace.

# » alicloud\_dns\_groups

The Dns Domain Groups data source provides a list of Alicloud Dns Domain Groups in an Alicloud account according to the specified filters.

## » Example Usage

```
data "alicloud_dns_groups" "group" {
  name_regex = "^y[A-Za-z]+"
  output_file = "groups.txt"
}
```

### » Argument Reference

- name\_regex (Optional) A regex string to apply to the group list returned by Alicloud.
- output\_file (Optional) The name of file that can save groups data source after running terraform plan.

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

- group\_id Id of the group .
- group\_name Name of the group .

# » alicloud dns records

The Dns Domain Records data source provides a list of Alicloud Dns Domain Records in an Alicloud account according to the specified filters.

### » Example Usage

```
data "alicloud_dns_records" "record" {
  domain_name = "xiaozhu.top"
  is_locked = false
  type = "A"
  host_record_regex = "^@"
  output_file = "records.txt"
}
```

## » Argument Reference

- domain\_name (Required) A domain name which is the necessary parameter for the records query.
- host\_record\_regex (Optional) Limit search to provide host record regex.
- value\_regex (Optional) Limit search to provide host record value regex.
- type (Optional) Limit search to specific record type. Valid items are A, NS, MX, TXT, CNAME, SRV, AAAA, REDIRECT\_URL, FORWORD\_URL.
- line (Optional) Limit search to specific parsing line. Valid items are default, telecom, unicom, mobile, oversea, edu.
- status (Optional) Limit search to specific record status. Valid items are ENABLE and DISABLE.
- is\_locked (Optional, type: bool) Limit search to specific record lock status.
- output\_file (Optional) The name of file that can save records data source after running terraform plan.

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

- record\_id ID of the record.
- domain\_name Name of the domain which the record belong to.
- host\_record Host record of the record.
- value Host record value of the record.
- type Type of the record.
- ttl TTL of the record.
- priority Priority of the MX record.
- line Parsing line of the record.
- status Status of the record.
- locked Indicates whether the record is locked.

## » alicloud dns domains

The Dns Domains data source provides a list of Alicloud Dns Domains in an Alicloud account according to the specified filters.

### » Example Usage

```
data "alicloud_dns_domains" "domain" {
  domain_name_regex = "^hegu"
  output_file = "domains.txt"
}
```

### » Argument Reference

- domain\_name\_regex (Optional) A regex string to apply to the domain list returned by Alicloud.
- group\_name\_regex (Optional) Limit search to provide group name regex.
- ali\_domain (Optional, type: bool) Limit search to specific whether it is Alicloud domain.
- instance\_id (Optional) Limit search to specific cloud analysis product ID.
- version\_code (Optional) Limit search to specific cloud analysis version code.
- output\_file (Optional) The name of file that can save domains data source after running terraform plan.

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

- domain\_id ID of the domain.
- domain name Name of the domain.
- ali domain Indicates whether the domain is Alicloud domain.
- group id Id of group which the domain in.
- group\_name Name of group which the domain in.
- instance\_id Cloud analysis product id of the domain.
- version\_code Cloud analysis version code of the domain.
- puny\_code Punycode of the Chinese domain.
- dns\_servers DNS list of the domain in the analysis system.

# » alicloud\_ram\_account\_aliases

The Ram Account Alias data source provides an alias for the Alicloud account.

### » Example Usage

```
data "alicloud_ram_account_aliases" "alias" {
  output_file = "alias.txt"
}
```

### » Argument Reference

The following arguments are supported:

• output\_file - (Optional) The name of file that can save alias data source after running terraform plan.

#### » Attributes Reference

• account\_alias - Alias of the account.

# » alicloud\_ram\_account\_alias

**NOTE:** This datasource has been deprecated from v1.3.2. New datasource alicloud\_ram\_account\_aliases will replace.

# » alicloud\_ram\_groups

The Ram Groups data source provides a list of Alicloud Ram Groups in an Alicloud account according to the specified filters.

### » Example Usage

```
data "alicloud_ram_groups" "group" {
  output_file = "groups.txt"
  user_name = "user1"
  name_regex = "^group[0-9]*"
}
```

### » Argument Reference

The following arguments are supported:

- name\_regex (Optional) A regex string to apply to the group list returned by Alicloud.
- user\_name (Optional) Limit search to specific the user name. Found the groups for the specified user.
- policy\_type (Optional) Limit search to specific the policy type. Valid items are Custom and System. If you set this parameter, you must set policy\_name at one time.
- policy\_name (Optional) Limit search to specific the policy name. If you set this parameter without set policy\_type, we will specified it as System. Found the groups which attached with the specified policy.
- output\_file (Optional) The name of file that can save groups data source after running terraform plan.

#### » Attributes Reference

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

- name Name of the group.
- comments Comments of the group.

# » alicloud ram policies

The Ram Policies data source provides a list of Alicloud Ram Policies in an Alicloud account according to the specified filters.

### » Example Usage

```
data "alicloud_ram_policies" "policy" {
  output_file = "policies.txt"
  user_name = "user1"
  group_name = "group1"
  type = "System"
}
```

### » Argument Reference

The following arguments are supported:

- name\_regex (Optional) A regex string to apply to the policy list returned by Alicloud.
- type (Optional) Limit search to specific the policy type. Valid items are Custom and System.
- user\_name (Optional) Limit search to specific the user name. Found the policies which attached with the specified user.
- group\_name (Optional) Limit search to specific the group name. Found the policies which attached with the specified group.
- role\_name (Optional) Limit search to specific the role name. Found the policies which attached with the specified role.
- output\_file (Optional) The name of file that can save policies data source after running terraform plan.

### » Attributes Reference

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

- name Name of the policy.
- type Type of the policy.
- description Description of the policy.
- default\_version Default version of the policy.
- create\_date Create date of the policy.
- update\_date Update date of the policy.
- attachment\_count Attachment count of the policy.
- document Policy document of the policy.

## » alicloud ram roles

The Ram Roles data source provides a list of Alicloud Ram Roles in an Alicloud account according to the specified filters.

## » Example Usage

```
data "alicloud_ram_roles" "role" {
  output_file = "roles.txt"
  name_regex = ".*test.*"
  policy_name = "AliyunACSDefaultAccess"
  policy_type = "Custom"
}
```

### » Argument Reference

The following arguments are supported:

- name\_regex (Optional) A regex string to apply to the role list returned by Alicloud.
- policy\_type (Optional) Limit search to specific the policy type. Valid items are Custom and System. If you set this parameter, you must set policy\_name at one time.
- policy\_name (Optional) Limit search to specific the policy name. If you set this parameter without set policy\_type, we will specified it as System. Found the roles which attached with the specified policy.
- output\_file (Optional) The name of file that can save roles data source after running terraform plan.

### » Attributes Reference

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

- id Id of the role.
- name Name of the role.
- arn Resource descriptor of the role.
- description Description of the role.
- assume\_role\_policy\_document Authorization strategy of the role. This parameter is deprecated and replaced by document.
- document Authorization strategy of the role.
- create\_date Create date of the role.
- update date Update date of the role.

## » alicloud ram users

The Ram Users data source provides a list of Alicloud Ram Users in an Alicloud account according to the specified filters.

### » Example Usage

```
data "alicloud_ram_users" "user" {
  output_file = "users.txt"
  group_name = "group1"
  policy_name = "AliyunACSDefaultAccess"
  policy_type = "Custom"
  name_regex = "^user"
}
```

### » Argument Reference

The following arguments are supported:

- name\_regex (Optional) A regex string to apply to the user list returned by Alicloud.
- group\_name (Optional) Limit search to specific the group name. Found the users which in the specified group.
- policy\_type (Optional) Limit search to specific the policy type. Valid items are Custom and System. If you set this parameter, you must set policy\_name at one time.
- policy\_name (Optional) Limit search to specific the policy name. If you set this parameter without set policy\_type, we will specified it as System. Found the users which attached with the specified policy.
- output\_file (Optional) The name of file that can save users data source after running terraform plan.

#### » Attributes Reference

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

- id Id of the user.
- name Name of the user.
- create\_date Create date of the user.
- last\_login\_date Last login date of the user.

# » alicloud\_disk

Provides a ECS disk resource.

**NOTE:** One of size or snapshot\_id is required when specifying an ECS disk. If all of them be specified, size must more than the size of snapshot which snapshot\_id represents. Currently, alicloud\_disk doesn't resize disk.

### » Example Usage

```
# Create a new ECS disk.
resource "alicloud_disk" "ecs_disk" {
    # cn-beijing
    availability_zone = "cn-beijing-b"
    name = "New-disk"
    description = "Hello ecs disk."
    category = "cloud_efficiency"
    size = "30"

tags {
    Name = "TerraformTest"
    }
}
```

### » Argument Reference

- availability\_zone (Required, Forces new resource) The Zone to create the disk in.
- name (Optional) Name of the ECS disk. This name can have a string of 2 to 128 characters, must contain only alphanumeric characters or hyphens, such as "-","","\_", and must not begin or end with a hyphen, and must not begin with http:// or https://. Default value is null.
- description (Optional) Description of the disk. This description can have a string of 2 to 256 characters, It cannot begin with http:// or https://. Default value is null.
- category (Optional, Forces new resource) Category of the disk.
   Valid values are cloud, cloud\_efficiency and cloud\_ssd. Default is cloud\_efficiency.
- size (Required) The size of the disk in GiBs, and it value range: 20  $\sim$  32768.
- snapshot\_id (Optional) A snapshot to base the disk off of. If it is specified, size will be invalid and the disk size is equals to the snapshot size.

- tags (Optional) A mapping of tags to assign to the resource.
- encrypted (Optional) If true, the disk will be encrypted

**NOTE:** Disk category cloud has been outdated and it only can be used none I/O Optimized ECS instances. Recommend cloud\_efficiency and cloud\_ssd disk.

### » Attributes Reference

The following attributes are exported:

- id The disk ID.
- availability\_zone The Zone to create the disk in.
- name The disk name.
- description The disk description.
- status The disk status.
- category The disk category.
- size The disk size.
- snapshot\_id The disk snapshot ID.
- tags The disk tags.
- encrypted Whether the disk is encrypted.

### » Import

Cloud disk can be imported using the id, e.g.

\$ terraform import alicloud\_disk.example d-abc12345678

## » alicloud disk attachment

Provides an Alicloud ECS Disk Attachment as a resource, to attach and detach disks from ECS Instances.

### » Example Usage

```
Basic usage
```

# Create a new ECS disk-attachment and use it attach one disk to a new instance.

```
resource "alicloud_disk" "ecs_disk" {
 availability_zone = "cn-beijing-a"
                   = "50"
 size
 tags {
   Name = "TerraformTest-disk"
}
resource "alicloud_instance" "ecs_instance" {
                    = "ubuntu_140405_64_40G_cloudinit_20161115.vhd"
  image_id
                     = "ecs.n4.small"
 instance_type
 availability_zone = "cn-beijing-a"
 security_groups
                     = ["${alicloud_security_group.ecs_sg.id}"]
 instance name
                       = "Hello"
 instance_network_type = "classic"
 internet_charge_type = "PayByBandwidth"
   Name = "TerraformTest-instance"
}
resource "alicloud_disk_attachment" "ecs_disk_att" {
            = "${alicloud_disk.ecs_disk.id}"
 instance_id = "${alicloud_instance.ecs_instance.id}"
```

The following arguments are supported:

- instance\_id (Required, Forces new resource) ID of the Instance to attach to.
- disk\_id (Required, Forces new resource) ID of the Disk to be attached.
- device\_name (Deprecated) The device name has been deprecated, and when attaching disk, it will be allocated automatically by system according to default order from /dev/xvdb to /dev/xvdz.

#### » Attributes Reference

The following attributes are exported:

• instance\_id - ID of the Instance.

- disk\_id ID of the Disk.
- device\_name The device name exposed to the instance.

## » alicloud instance

Provides a ECS instance resource.

**NOTE:** You can launch an ECS instance for a VPC network via specifying parameter vswitch\_id. One instance can only belong to one VSwitch.

**NOTE:** If a VSwitchId is specified for creating an instance, SecurityGroupId and VSwitchId must belong to one VPC.

**NOTE:** Several instance types have outdated in some regions and availability zones, such as ecs.t1.\*, ecs.s2.\*, ecs.n1.\* and so on. If you want to keep them, you should set is\_outdated to true. For more about the upgraded instance type, refer to alicloud\_instance\_types datasource.

**NOTE:** At present, 'PrePaid' instance cannot be deleted and must wait it to be outdated and release it automatically.

**NOTE:** The resource supports modifying instance charge type from 'PrePaid' to 'PostPaid' from version 1.9.6. However, at present, this modification has some limitation about CPU core count in one month, so strongly recommand that Don't modify instance charge type frequently in one month.

### » Example Usage

```
# Create a new ECS instance for a VPC
resource "alicloud_security_group" "group" {
            = "tf_test_foo"
 name
 description = "foo"
 vpc_id = "${alicloud_vpc.vpc.id}"
resource "alicloud_instance" "instance" {
 # cn-beijing
 availability zone = "cn-beijing-b"
 security_groups = ["${alicloud_security_group.group.*.id}"]
 # series III
                    = "ecs.n4.large"
  instance_type
  system_disk_category = "cloud_efficiency"
                     = "ubuntu_140405_64_40G_cloudinit_20161115.vhd"
  image_id
 instance_name = "test_foo"
 vswitch_id = "${alicloud_vswitch.vswitch.id}"
```

```
internet_max_bandwidth_out = 10
}
# Create a new ECS instance for VPC
resource "alicloud_vpc" "vpc" {
  # Other parameters...
resource "alicloud vswitch" "vswitch" {
  vpc_id = "${alicloud_vpc.vpc.id}"
  # Other parameters...
}
resource "alicloud slb" "slb" {
 name
            = "test-slb-tf"
             = "${alicloud vpc.vpc.id}"
  vpc id
  vswitch_id = "${alicloud_vswitch.vswitch.id}"
}
```

- image\_id (Required) The Image to use for the instance. ECS instance's image can be replaced via changing 'image\_id'. When it is changed, the instance will reboot to make the change take effect.
- instance\_type (Required) The type of instance to start.
- io\_optimized (Deprecated) It has been deprecated on instance resource.
   All the launched alicloud instances will be I/O optimized.
- is\_outdated (Optional) Whether to use outdated instance type. Default to false.
- security\_groups (Required) A list of security group ids to associate with.
- availability\_zone (Optional) The Zone to start the instance in. It is ignored and will be computed when set vswitch\_id.
- instance\_name (Optional) The name of the ECS. This instance\_name can have a string of 2 to 128 characters, must contain only alphanumeric characters or hyphens, such as "-","","\_", and must not begin or end with a hyphen, and must not begin with http:// or https://. If not specified, Terraform will autogenerate a default name is ECS-Instance.
- allocate\_public\_ip (Deprecated) It has been deprecated from version

- "1.7.0". Setting "internet\_max\_bandwidth\_out" larger than 0 can allocate a public ip address for an instance.
- system\_disk\_category (Optional) Valid values are cloud\_efficiency, cloud\_ssd and cloud. cloud only is used to some none I/O optimized instance. Default to cloud\_efficiency.
- system\_disk\_size (Optional) Size of the system disk, value range: 40GB ~ 500GB. Default is 40GB. ECS instance's system disk can be reset when replacing system disk.
- description (Optional) Description of the instance, This description can have a string of 2 to 256 characters, It cannot begin with http:// or https://. Default value is null.
- internet\_charge\_type (Optional) Internet charge type of the instance, Valid values are PayByBandwidth, PayByTraffic. Default is PayByTraffic. At present, 'PrePaid' instance cannot change the value to "PayByBandwidth" from "PayByTraffic".
- internet\_max\_bandwidth\_in (Optional) Maximum incoming bandwidth from the public network, measured in Mbps (Mega bit per second). Value range: [1, 200]. If this value is not specified, then automatically sets it to 200 Mbps.
- internet\_max\_bandwidth\_out (Optional) Maximum outgoing bandwidth to the public network, measured in Mbps (Mega bit per second). Value range: [0, 100]. Default to 0 Mbps.
- host\_name (Optional) Host name of the ECS, which is a string of at least two characters. "hostname" cannot start or end with "." or "-". In addition, two or more consecutive "." or "-" symbols are not allowed. On Windows, the host name can contain a maximum of 15 characters, which can be a combination of uppercase/lowercase letters, numerals, and "-". The host name cannot contain dots (".") or contain only numeric characters. On other OSs such as Linux, the host name can contain a maximum of 30 characters, which can be segments separated by dots ("."), where each segment can contain uppercase/lowercase letters, numerals, or "\_". When it is changed, the instance will reboot to make the change take effect.
- password (Optional) Password to an instance is a string of 8 to 30 characters. It must contain uppercase/lowercase letters and numerals, but cannot contain special symbols. When it is changed, the instance will reboot to make the change take effect.
- vswitch\_id (Optional) The virtual switch ID to launch in VPC. If you want to create instances in VPC network, this parameter must be set.
- instance\_charge\_type (Optional) Valid values are PrePaid, PostPaid,
   The default is PostPaid.

- period\_unit (Optional) The duration unit that you will buy the resource. It is valid when instance\_charge\_type is 'PrePaid'. Valid value: ["Week", "Month"]. Default to "Month".
- period (Optional) The duration that you will buy the resource, in month. It is valid when instance\_charge\_type is PrePaid. Default to 1. Valid values:
  - [1-9, 12, 24, 36, 48, 60] when period\_unit in "Month"
  - [1-3] when period\_unit in "Week"
- renewal\_status (Optional) Whether to renew an ECS instance automatically or not. It is valid when instance\_charge\_type is PrePaid. Default to "Normal". Valid values:
  - AutoRenewal: Enable auto renewal.
  - Normal: Disable auto renewal.
  - NotRenewal: No renewal any longer. After you specify this value, Alibaba Cloud stop sending notification of instance expiry, and only gives a brief reminder on the third day before the instance expiry.
- auto\_renew\_period (Optional) Auto renewal period of an instance, in the unit of month. It is valid when instance\_charge\_type is PrePaid. Default to 1. Valid value:
  - -[1, 2, 3, 6, 12] when period\_unit in "Month"
  - -[1, 2, 3] when period\_unit in "Week"
- tags (Optional) A mapping of tags to assign to the resource.
- user\_data (Optional) User-defined data to customize the startup behaviors of an ECS instance and to pass data into an ECS instance.
- key\_name (Optional, Force new resource) The name of key pair that can login ECS instance successfully without password. If it is specified, the password would be invalid.
- role\_name (Optional, Force new resource) Instance RAM role name. The name is provided and maintained by RAM. You can use alicloud\_ram\_role to create a new one.
- include\_data\_disks (Optional) Whether to change instance disks charge type when changing instance charge type.
- dry\_run (Optional) Whether to pre-detection. When it is true, only pre-detection and not actually modify the payment type operation. It is valid when instance\_charge\_type is 'PrePaid'. Default to false.
- private\_ip (Optional) Instance private IP address can be specified when you creating new instance. It is valid when vswitch\_id is specified.

- spot\_strategy (Optional, Force New) The spot strategy of a Pay-As-You-Go instance, and it takes effect only when parameter instance\_charge\_type is 'PostPaid'. Value range:
  - NoSpot: A regular Pay-As-You-Go instance.
  - SpotWithPriceLimit: A price threshold for a spot instance
  - SpotAsPriceGo: A price that is based on the highest Pay-As-You-Go instance

Default to NoSpot.

• spot\_price\_limit - (Optional, Float, Force New) The hourly price threshold of a instance, and it takes effect only when parameter 'spot\_strategy' is 'SpotWithPriceLimit'. Three decimals is allowed at most.

**NOTE:** System disk category cloud has been outdated and it only can be used none I/O Optimized ECS instances. Recommend cloud\_efficiency and cloud\_ssd disk.

**NOTE:** From version 1.5.0, instance's charge type can be changed to "PrePaid" by specifying period and period\_unit, but it is irreversible.

**NOTE:** From version 1.5.0, instance's private IP address can be specified when creating VPC network instance.

**NOTE:** From version 1.5.0, instance's vswitch and private IP can be changed in the same availability zone. When they are changed, the instance will reboot to make the change take effect.

NOTE: From version 1.7.0, setting "internet\_max\_bandwidth\_out" larger than 0 can allocate a public IP for an instance. Setting "internet\_max\_bandwidth\_out" to 0 can release allocated public IP for VPC instance(For Classic instance, its public IP cannot be release once it allocated, even though its bandwidth out is 0). However, at present, 'PrePaid' instance cannot narrow its max bandwidth out when its 'internet\_charge\_type' is "PayByBandwidth".

**NOTE:** From version 1.7.0, instance's type can be changed. When it is changed, the instance will reboot to make the change take effect.

### » Attributes Reference

The following attributes are exported:

- id The instance ID.
- $\bullet\,$  availability\_zone The Zone to start the instance in.
- instance name The instance name.
- host name The instance host name.
- description The instance description.

- status The instance status.
- image\_id The instance Image Id.
- instance\_type The instance type.
- private\_ip The instance private ip.
- public\_ip The instance public ip.
- vswitch\_id If the instance created in VPC, then this value is virtual switch ID.
- tags The instance tags, use jsonencode(item) to display the value.
- key\_name The name of key pair that has been bound in ECS instance.
- role\_name The name of RAM role that has been bound in ECS instance.
- user data The hash value of the user data.
- period The ECS instance using duration.
- period\_unit The ECS instance using duration unit.
- renewal status The ECS instance automatically renew status.
- auto\_renew\_period Auto renewal period of an instance.
- dry\_run Whether to pre-detection.
- spot\_strategy The spot strategy of a Pay-As-You-Go instance
- spot\_price\_limit The hourly price threshold of a instance.

### » Import

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

\$ terraform import alicloud\_instance.example i-abc12345678

# » alicloud\_security\_group

Provides a security group resource.

NOTE: alicloud\_security\_group is used to build and manage a security group, and alicloud\_security\_group\_rule can define ingress or egress rules for it

**NOTE:** From version 1.7.2, alicloud\_security\_group has supported to segregate different ECS instance in which the same security group.

### » Example Usage

Basic usage for vpc

```
resource "alicloud_security_group" "group" {
  name = "new-group"
  vpc_id = "${alicloud_vpc.vpc.id}"
}
resource "alicloud_vpc" "vpc" {
  cidr_block = "10.1.0.0/21"
}
```

### » Argument Reference

The following arguments are supported:

- name (Optional) The name of the security group. Defaults to null.
- description (Optional, Forces new resource) The security group description. Defaults to null.
- vpc\_id (Optional, Forces new resource) The VPC ID.
- inner\_access (Optional) Whether to allow both machines to access each other on all ports in the same security group. Combining security group rules, the policy can define multiple application scenario. Default to true. It is valid from verison 1.7.2.

#### » Attributes Reference

The following attributes are exported:

- id The ID of the security group
- vpc\_id The VPC ID.
- name The name of the security group
- description The description of the security group
- inner\_access Whether to allow inner network access.

### » Import

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

\$ terraform import alicloud\_security\_group.example sg-abc123456

# » alicloud\_security\_group\_rule

Provides a security group rule resource. Represents a single ingress or egress group rule, which can be added to external Security Groups.

NOTE: nic\_type should set to intranet when security group type is vpc or specifying the source\_security\_group\_id. In this situation it does not distinguish between intranet and internet, the rule is effective on them both.

## » Example Usage

```
Basic Usage
resource "alicloud_security_group" "default" {
 name = "default"
}
resource "alicloud_security_group_rule" "allow_all_tcp" {
                    = "ingress"
                    = "tcp"
  ip protocol
 nic_type
                   = "internet"
                    = "accept"
 policy
                    = "1/65535"
 port_range
 priority
                    = 1
 security_group_id = "${alicloud_security_group.default.id}"
                   = "0.0.0.0/0"
  cidr_ip
}
```

### » Argument Reference

- type (Required) The type of rule being created. Valid options are ingress (inbound) or egress (outbound).
- ip\_protocol (Required) The protocol. Can be tcp, udp, icmp, gre or
- port\_range (Required) The range of port numbers relevant to the IP protocol. Default to "-1/-1". When the protocol is tcp or udp, each side port number range from 1 to 65535 and '-1/-1' will be invalid. For example, 1/200 means that the range of the port numbers is 1-200. Other protocols' 'port\_range' can only be "-1/-1", and other values will be invalid.
- security\_group\_id (Required) The security group to apply this rule to.
- nic\_type (Optional, Forces new resource) Network type, can be either internet or intranet, the default value is internet.
- policy (Optional, Forces new resource) Authorization policy, can be either accept or drop, the default value is accept.
- priority (Optional, Forces new resource) Authorization policy priority, with parameter values: 1-100, default value: 1.

- cidr\_ip (Optional, Forces new resource) The target IP address range. The default value is 0.0.0.0/0 (which means no restriction will be applied). Other supported formats include 10.159.6.18/12. Only IPv4 is supported.
- source\_security\_group\_id (Optional, Forces new resource) The target security group ID within the same region. If this field is specified, the nic\_type can only select intranet.
- source\_group\_owner\_account (Optional, Forces new resource) The Alibaba Cloud user account Id of the target security group when security groups are authorized across accounts. This parameter is invalid if cidr\_ip has already been set.

NOTE: Either the source\_security\_group\_id or cidr\_ip must be set.

#### » Attributes Reference

The following attributes are exported:

- id The ID of the security group rule
- type The type of rule, ingress or egress
- name The name of the security group
- port\_range The range of port numbers
- ip\_protocol The protocol of the security group rule

# » alicloud\_eip

Provides an elastic IP resource.

**NOTE:** The resource only support to create PayByTraffic elastic IP for international account. Otherwise, you will happened error COMMODITY.INVALID\_COMPONENT. Your account is international if you can use it to login in International Web Console.

**NOTE:** From version 1.10.1, this resource supports creating "PrePaid" EIP. In addition, it supports setting EIP name and description.

```
# Create a new EIP.
resource "alicloud_eip" "example" {
  bandwidth = "10"
  internet_charge_type = "PayByBandwidth"
}
```

The following arguments are supported:

- name (Optional) The name of the EIP instance. This name can have a string of 2 to 128 characters, must contain only alphanumeric characters or hyphens, such as "-","","\_", and must not begin or end with a hyphen, and must not begin with http:// or https://.
- description (Optional) Description of the EIP instance, This description can have a string of 2 to 256 characters, It cannot begin with http://or https://. Default value is null.
- bandwidth (Optional) Maximum bandwidth to the elastic public network, measured in Mbps (Mega bit per second). If this value is not specified, then automatically sets it to 5 Mbps.
- internet\_charge\_type (Optional, ForceNew) Internet charge type of the EIP, Valid values are PayByBandwidth, PayByTraffic. Default to PayByBandwidth. From version 1.7.1, default to PayByTraffic.
- instance\_charge\_type (Optional, ForceNew) Elastic IP instance charge type. Valid values are "PrePaid" and "PostPaid". Default to "PostPaid".
- period (Optional, ForceNew) The duration that you will buy the resource, in month. It is valid when instance\_charge\_type is PrePaid. Default to 1. Valid values: [1-9, 12, 24, 36]. At present, the provider does not support modify "period" and you can do that via web console.

#### » Attributes Reference

The following attributes are exported:

- id The EIP ID.
- bandwidth The elastic public network bandwidth.
- internet\_charge\_type The EIP internet charge type.
- status The EIP current status.
- ip\_address The elastic ip address

#### » Import

Elastic IP address can be imported using the id, e.g.

\$ terraform import alicloud\_eip.example eip-abc12345678

# » alicloud\_eip\_association

Provides an Alicloud EIP Association resource for associating Elastic IP to ECS Instance, SLB Instance or Nat Gateway.

**NOTE:** alicloud\_eip\_association is useful in scenarios where EIPs are either pre-existing or distributed to customers or users and therefore cannot be changed.

**NOTE:** From version 1.7.1, the resource support to associate EIP to SLB Instance or Nat Gateway.

**NOTE:** One EIP can only be associated with ECS or SLB instance which in the VPC.

## » Example Usage

# Create a new EIP association and use it to associate a EIP form a instance.
resource "alicloud\_vpc" "vpc" {
 cidr\_block = "10.1.0.0/21"
}
resource "alicloud\_vswitch" "vsw" {

```
vpc_id = "${alicloud_vpc.vpc.id}"
cidr_block = "10.1.1.0/24"
availability_zone = "cn-beijing-a"

depends_on = [
    "alicloud_vpc.vpc",
]
}
resource "alicloud_instance" "ecs_instance" {
```

```
Name = Terrarofmrest=Instance
}
```

resource "alicloud\_eip" "eip" {}

resource "alicloud\_eip\_association" "eip\_asso" {
 allocation\_id = "\${alicloud\_eip.eip.id}"

The following arguments are supported:

- allocation\_id (Optional, Forces new resource) The allocation EIP ID.
- instance\_id (Optional, Forces new resource) The ID of the ECS or SLB instance or Nat Gateway.

#### » Attributes Reference

The following attributes are exported:

- allocation\_id As above.
- instance\_id As above.

# » alicloud\_key\_pair

Provides a key pair resource.

```
Basic Usage
resource "alicloud_key_pair" "basic" {
    key_name = "terraform-test-key-pair"
}

// Using name prefix to build key pair
resource "alicloud_key_pair" "prefix" {
    key_name_prefix = "terraform-test-key-pair-prefix"
}

// Import an existing public key to build a alicloud key pair
resource "alicloud_key_pair" "publickey" {
```

```
key_name = "my_public_key"
public_key = "ssh-rsa AAAAB3Nza12345678qwertyuudsfsg"
}
```

The following arguments are supported:

- key\_name (Force new resource) The key pair's name. It is the only in one Alicloud account.
- key\_name\_prefix (Force new resource) The key pair name's prefix. It is conflict with key\_name. If it is specified, terraform will using it to build the only key name.
- public\_key (Force new resource) You can import an existing public key and using Alicloud key pair to manage it.
- key\_file (Force new resource) The name of file to save your new key pair's private key. Strongly suggest you to specified it when you creating key pair, otherwise, you wouldn't get its private key ever.

**NOTE:** If key\_name and key\_name\_prefix are not set, terraform will produce a specified ID to replace.

#### » Attributes Reference

- key name The name of the key pair.
- fingerprint The finger print of the key pair.

#### » Import

Key pair can be imported using the name, e.g.

```
$ terraform import alicloud_key_pair.example my_public_key
```

# » alicloud\_key\_pair\_attachment

Provides a key pair attachment resource to bind key pair for several ECS instances.

#### » Example Usage

Basic Usage

```
resource "alicloud_key_pair" "key" {
    key_name = "terraform-test-key-pair"
}

resource "alicloud_instance" "instance" {
    instance_name = "test-keypair-${format(var.count_format, count.index+1)}"
    image_id = "ubuntu_140405_64_40G_cloudinit_20161115.vhd"
    instance_type = "ecs.n4.small"
    count = 2
    availability_zone = "${var.availability_zones}"
    ...
}

resource "alicloud_key_pair_attachment" "attach" {
    key_name = "${alicloud_key_pair.key.id}"
    instance_ids = ["${alicloud_instance.instance.*.id}"]
}
```

The following arguments are supported:

- key\_name (Required, Force new resource) The name of key pair used to bind.
- instance\_ids (Required, Force new resource) The list of ECS instance's IDs.

#### » Attributes Reference

- key name The name of the key pair.
- instance\_ids The list of ECS instance's IDs.

# » alicloud slb

Provides an Application Load Balancer resource.

NOTE: Resource alicloud\_slb has deprecated 'listener' filed from terraform-alicloud-provider version 1.3.0. You can create new listeners for Load Balancer by resource alicloud\_slb\_listener. If you have had several listeners in one load balancer, you can import them via the specified listener ID. In the alicloud\_slb\_listener, listener ID is consist of load balancer ID and frontend port, and its format is ":", like "lb-hr2fwnf32t:8080".

**NOTE:** At present, to avoid some unnecessary regulation confusion, SLB can not support alicloud international account to create "paybybandwidth" instance.

### » Example Usage

```
# Create a new load balancer for classic
resource "alicloud slb" "classic" {
                      = "test-slb-tf"
 name
  internet
                       = true
 internet_charge_type = "PayByBandwidth"
 bandwidth
                     = 5
  specification = "slb.s1.small"
# Create a new load balancer for VPC
resource "alicloud_vpc" "default" {
  # Other parameters...
resource "alicloud_vswitch" "default" {
  # Other parameters...
resource "alicloud slb" "vpc" {
           = "test-slb-tf"
  vswitch_id = "${alicloud_vswitch.default.id}"
}
```

#### » Argument Reference

The following arguments are supported:

- name (Optional) The name of the SLB. This name must be unique within your AliCloud account, can have a maximum of 80 characters, must contain only alphanumeric characters or hyphens, such as "-","/","",",",", and must not begin or end with a hyphen. If not specified, Terraform will autogenerate a name beginning with tf-lb.
- internet (Optional, Forces New Resource) If true, the SLB addressType will be internet, false will be intranet, Default is false. If load balancer launched in VPC, this value must be "false".
- internet\_charge\_type (Optional, Forces New Resource) Valid values are PayByBandwidth, PayByTraffic. If this value is "PayByBandwidth", then argument "internet" must be "true". Default is "PayByTraffic". If

load balancer launched in VPC, this value must be "PayByTraffic". Before version 1.10.1, the valid values are "paybybandwidth" and "paybytraffic".

- bandwidth (Optional) Valid value is between 1 and 1000, If argument "internet charge type" is "paybytraffic", then this value will be ignore.
- listener (Deprecated) The field has been deprecated from terraformalicloud-provider version 1.3.0, and use resource alicloud\_slb\_listener to replace.
- vswitch\_id (Required for a VPC SLB, Forces New Resource) The VSwitch ID to launch in.
- specification (Optional) The specification of the Server Load Balancer instance. Default to empty string indicating it is "Shared-Performance" instance. Launching "Performance-guaranteed" instance, it is must be specified and it valid values are: "slb.s1.small", "slb.s2.small", "slb.s2.medium", "slb.s3.small", "slb.s3.medium" and "slb.s3.large".

**NOTE:** A "Shared-Performance" instance can be changed to "Performance-guaranteed", but the change is irreversible.

**NOTE:** To change a "Shared-Performance" instance to a "Performance-guaranteed" instance, the SLB will have a short probability of business interruption (10 seconds-30 seconds). Advise to change it during the business downturn, or migrate business to other SLB Instances by using GSLB before changing.

#### » Attributes Reference

The following attributes are exported:

- id The ID of the load balancer.
- name The name of the load balancer.
- internet The internet of the load balancer.
- internet\_charge\_type The internet\_charge\_type of the load balancer.
- bandwidth The bandwidth of the load balancer.
- vswitch\_id The VSwitch ID of the load balancer. Only available on SLB launched in a VPC.
- address The IP address of the load balancer.
- specification The specification of the Server Load Balancer instance.

#### » Import

Load balancer can be imported using the id, e.g.

\$ terraform import alicloud\_slb.example lb-abc123456

# » alicloud\_slb\_attachment

Add a group of backend servers (ECS instance) to the Server Load Balancer or remove them from it.

# » Example Usage

```
# Create a new load balancer attachment for classic
resource "alicloud_slb" "default" {
    # Other parameters...
}

resource "alicloud_instance" "default" {
    # Other parameters...
}

resource "alicloud_slb_attachment" "default" {
    load_balancer_id = "${alicloud_slb.default.id}"
    instances = ["${alicloud_instance.default.id}"]
}
```

# » Argument Reference

The following arguments are supported:

- load\_balancer\_id (Required) ID of the load balancer.
- instance\_ids (Required) A list of instance ids to added backend server in the SLB.
- weight (Optional) Weight of the instances. Valid value range: [0-100]. Default to 100.
- slb\_id (Deprecated) It has been deprecated from provider version 1.6.0. New field 'load\_balancer\_id' replaces it.
- instances (Deprecated) It has been deprecated from provider version 1.6.0. New field 'instance\_ids' replaces it. ## Attributes Reference

- id ID of the resource.
- load\_balancer\_id ID of the load balancer.
- instance\_ids A list of instance ids that have been added in the SLB.
- weight (Optional) Weight of the instances.
- backend\_servers The backend servers of the load balancer.

Load balancer attachment can be imported using the id or load balancer id, e.g. \$ terraform import alicloud\_slb\_attachment.example lb-abc123456

# » alicloud\_slb\_listener

Provides an Application Load Balancer Listener resource.

## » Example Usage

```
# Create a new load balancer and listeners
resource "alicloud_slb" "instance" {
 name
                       = "test-slb-tf"
  internet
                       = true
  internet_charge_type = "paybybandwidth"
  bandwidth
}
resource "alicloud_slb_listener" "http" {
  load_balancer_id = "${alicloud_slb.instance.id}"
 backend_port = 80
 frontend_port = 80
 bandwidth = 10
 protocol = "http"
 sticky_session = "on"
 sticky_session_type = "insert"
  cookie = "testslblistenercookie"
  cookie_timeout = 86400
}
resource "alicloud_slb_listener" "tcp" {
  load_balancer_id = "${alicloud_slb.instance.id}"
  backend_port = "22"
  frontend_port = "22"
 protocol = "tcp"
 bandwidth = "10"
 health_check_type = "tcp"
}
```

# » Argument Reference

The following arguments are supported:

- load\_balancer\_id (Required, ForceNew) The Load Balancer ID which is used to launch a new listener.
- frontend\_port (Required, ForceNew) Port used by the Server Load Balancer instance frontend. Valid value range: [1-65535].
- backend\_port (Required, ForceNew) Port used by the Server Load Balancer instance backend. Valid value range: [1-65535].
- protocol (Required, ForceNew) The protocol to listen on. Valid values are [http, https, tcp, udp].
- bandwidth (Required) Bandwidth peak of Listener. For the public network instance charged per traffic consumed, the Bandwidth on Listener can be set to -1, indicating the bandwidth peak is unlimited. Valid values are [-1, 1-1000] in Mbps.
- scheduler (Optinal) Scheduling algorithm, Valid values are wrr and wlc.
   Default to "wrr".
- sticky\_session (Optinal) Whether to enable session persistence, Valid values are on and off. Default to off.
- sticky\_session\_type (Optinal) Mode for handling the cookie. If sticky\_session is "on", it is mandatory. Otherwise, it will be ignored. Valid values are insert and server. insert means it is inserted from Server Load Balancer; server means the Server Load Balancer learns from the backend server.
- cookie\_timeout (Optinal) Cookie timeout. It is mandatory when sticky\_session is "on" and sticky\_session\_type is "insert". Otherwise, it will be ignored. Valid value range: [1-86400] in seconds.
- cookie (Optinal) The cookie configured on the server. It is mandatory when sticky\_session is "on" and sticky\_session\_type is "server". Otherwise, it will be ignored. Valid value String in line with RFC 2965, with length being 1- 200. It only contains characters such as ASCII codes, English letters and digits instead of the comma, semicolon or spacing, and it cannot start with \$.
- persistence\_timeout (Optinal) Timeout of connection persistence. Valid value range: [0-3600] in seconds. Default to 0 and means closing it.
- health\_check (Optinal) Whether to enable health check. Valid values areon and off. TCP and UDP listener's HealthCheck is always on, so it will be ignore when launching TCP or UDP listener.
- health\_check\_type (Optinal) Type of health check. Valid values are: tcp and http. Default to tcp . TCP supports TCP and HTTP health check mode, you can select the particular mode depending on your application
- health\_check\_domain (Optinal) Domain name used for health check.
  When it used to launch TCP listener, health\_check\_type must be "http".
  Its length is limited to 1-80 and only characters such as letters, digits, '-' and ':' are allowed. When it is not set or empty, Server Load Balancer uses the private network IP address of each backend server as Domain used for health check.
- health\_check\_uri (Optinal) URI used for health check. When it used

- to launch TCP listener, health\_check\_type must be "http". Its length is limited to 1-80 and it must start with /. Only characters such as letters, digits, '-', '/', ':, '%', '?', #' and '&' are allowed.
- health\_check\_connect\_port (Optinal) Port used for health check. Valid value range: [1-65535]. Default to "None" means the backend server port is used.
- healthy\_threshold (Optinal) Threshold determining the result of the health check is success. It is required when health\_check is on. Valid value range: [1-10] in seconds. Default to 3.
- unhealthy\_threshold (Optinal) Threshold determining the result of the health check is fail. It is required when health\_check is on. Valid value range: [1-10] in seconds. Default to 3.
- health\_check\_timeout (Optinal) Maximum timeout of each health check response. It is required when health\_check is on. Valid value range: [1-300] in seconds. Default to 5. Note: If health\_check\_timeout < health\_check\_interval, its will be replaced by health\_check\_interval.
- health\_check\_interval (Optinal) Time interval of health checks. It is required when health\_check is on. Valid value range: [1-50] in seconds. Default to 2.
- health\_check\_http\_code (Optinal) Regular health check HTTP status code. Multiple codes are segmented by ",". It is required when health\_check is on. Default to http\_2xx. Valid values are: http\_2xx, http\_3xx, http\_4xx and http\_5xx.
- ssl\_certificate\_id (Optinal) Security certificate ID. It is required when protocol is https.

#### » Listener fields and protocol mapping

load balance support 4 protocal to listen on, they are http,https,tcp,udp, the every listener support which portocal following:

listener parameter	support protocol	value range
backend_port	http & https & tcp & udp	1-65535
frontend_port	http & https & tcp & udp	1-65535
protocol	http & https & tcp & udp	
bandwidth	http & https & tcp & udp	-1 / 1-1000
scheduler	http & https & tcp & udp	wrr or wlc
$sticky\_session$	http & https	on or off
$sticky\_session\_type$	http & https	insert or server
$cookie\_timeout$	http & https	1-86400
cookie	http & https	
persistence_timeout	tcp & udp	0-3600
health_check	http & https	on or off

listener parameter	support protocol	value range
health_check_type	tcp	tcp or http
health_check_domain	http & https & tcp	
health_check_uri	http & https & tcp	
health_check_connect_port	http & https & tcp & udp	1-65535 or -520
healthy_threshold	http & https & tcp & udp	1-10
$unhealthy\_threshold$	http & https & tcp & udp	1-10
$health\_check\_timeout$	http & https & tcp & udp	1-300
$health\_check\_interval$	http & https & tcp & udp	1-50
$health\_check\_http\_code$	http & https & tcp	http_2xx,http_3xx,http_4xx,http_5xx
$ssl\_certificate\_id$	https	

The listener mapping supports the following:

#### » Attributes Reference

- id The ID of the load balancer listener. It is consist of load\_balancer\_id and frontend port: :.
- load\_balancer\_id The Load Balancer ID which is used to launch a new listener.
- frontend\_port Port used by the Server Load Balancer instance frontend.
- backend\_port Port used by the Server Load Balancer instance backend.
- protocol The protocol to listen on.
- bandwidth Bandwidth peak of Listener.
- scheduler Scheduling algorithm.
- sticky\_session Whether to enable session persistence.
- sticky\_session\_type Mode for handling the cookie.
- cookie\_timeout Cookie timeout.
- cookie The cookie configured on the server.
- persistence\_timeout Timeout of connection persistence.
- health\_check Whether to enable health check.
- health\_check\_type Type of health check.
- health\_check\_domain Domain name used for health check.
- health\_check\_uri URI used for health check.
- health check connect port Port used for health check.
- healthy\_threshold Threshold determining the result of the health check is success.
- unhealthy\_threshold Threshold determining the result of the health check is fail.
- health\_check\_timeout Maximum timeout of each health check response.
- health\_check\_interval Time interval of health checks.

- health\_check\_http\_code Regular health check HTTP status code.
- ssl\_certificate\_id (Optinal) Security certificate ID.

Load balancer listener can be imported using the id, e.g.

\$ terraform import alicloud\_slb\_listener.example "lb-abc123456:22"

# » alicloud slb rule

A forwarding rule is configured in HTTP/HTTPS listener and it used to listen a list of backend servers which in one specified virtual backend server group. You can add forwarding rules to a listener to forward requests based on the domain names or the URL in the request.

**NOTE:** One virtual backend server group can be attached in multiple forwarding rules.

**NOTE:** At least one "Domain" or "Url" must be specified when creating a new rule.

**NOTE:** Having the same 'Domain' and 'Url' rule can not be created repeatedly in the one listener.

**NOTE:** Rule only be created in the HTTP or HTTPS listener.

**NOTE:** Only rule's virtual server group can be modified.

```
# Create a new load balancer and virtual rule
resource "alicloud_slb" "instance" {
  name = "new-slb"
  vswitch_id = "<one vswitch id>"
}
resource "alicloud_slb_listener" "listener" {
  load_balancer_id = "${alicloud_slb.instance.id}"
  protocol = "http"
  ...
}
```

```
load_balancer_id = "${alicloud_slb.instance.id}"
...
}

resource "alicloud_slb_rule" "rule" {
  count = 2
  load_balancer_id = "${alicloud_slb.instance.id}"
  frontend_port = "${alicloud_slb_listener.listener.frontend_port}"
  name = "from-tf"
  domain = "*.test.com"
  url = "/image/${count.index}"
  server_group_id = "${alicloud_slb_server_group.group.id}"
}
```

The following arguments are supported:

- load\_balancer\_id (Required, ForceNew) The Load Balancer ID which is used to launch the new forwarding rule.
- name (Optional, ForceNew) Name of the forwarding rule. Our plugin provides a default name: "tf-slb-rule".
- frontend\_port (Required, ForceNew) The listener frontend port which is used to launch the new forwarding rule. Valid range: [1-65535].
- domain (Optional, ForceNew) Domain name of the forwarding rule. It can contain letters a-z, numbers 0-9, hyphens (-), and periods (.), and wild-card characters. The following two domain name formats are supported:
  - Standard domain name: www.test.com
  - Wildcard domain name: .test.com. wildcard () must be the first character in the format of (\*.)
- url (Optional, ForceNew) Domain of the forwarding rule. It must be 2-80 characters in length. Only letters a-z, numbers 0-9, and characters '-' '/' '?' '%' '#' and '&' are allowed. URLs must be started with the character '/', but cannot be '/' alone.
- server\_group\_id (Required) ID of a virtual server group that will be forwarded.

## » Attributes Reference

- id The ID of the forwarding rule.
- load\_balancer\_id The Load Balancer ID in which forwarding rule belongs.
- name The name of the forwarding rule.

- forntend\_port The listener port in which forwarding rule belongs.
- domain The domain name of the forwarding rule.
- url The url of the forwarding rule.
- server\_group\_id The Id of the virtual server group.

Load balancer forwarding rule can be imported using the id, e.g.

\$ terraform import alicloud\_slb\_rule.example rule-abc123456

# » alicloud\_slb\_server\_group

A virtual server group contains several ECS instances. The virtual server group can help you to define multiple listening dimension, and to meet the personalized requirements of domain name and URL forwarding.

NOTE: One ECS instance can be added into multiple virtual server groups.

**NOTE:** One virtual server group can be attached with multiple listeners in one load balancer.

**NOTE:** One Classic and Internet load balancer, its virtual server group can add Classic and VPC ECS instances.

**NOTE:** One Classic and Intranet load balancer, its virtual server group can only add Classic ECS instances.

**NOTE:** One VPC load balancer, its virtual server group can only add the same VPC ECS instances.

#### » Example Usage

# Create a new load balancer and virtual server group

```
resource "alicloud_instance" "instance" {
  instance_name = "for-slb-server"
  count = 3
  ...
}
resource "alicloud_slb" "instance" {
  name = "new-slb"
  vswitch_id = "<one vswitch id>"
}
```

```
resource "alicloud_slb_server_group" "group" {
  load_balancer_id = "${alicloud_slb.instance.id}"
  servers = [
     {
      server_ids = ["${alicloud_instance.instance.*.id}"]
      port = 80
      weight = 100
     }
  ]
}
```

The following arguments are supported:

- load\_balancer\_id (Required, ForceNew) The Load Balancer ID which is used to launch a new virtual server group.
- name (Optional) Name of the virtual server group. Our plugin provides a default name: "tf-server-group".
- servers (Required) A list of ECS instances to be added. At most 20 ECS instances can be supported in one resource. It contains three sub-fields as Block server follows.

#### » Block servers

The servers mapping supports the following:

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

## » Attributes Reference

- id The ID of the virtual server group.
- load\_balancer\_id The Load Balancer ID which is used to launch a new virtual server group.
- name The name of the virtual server group.
- servers A list of ECS instances that have be added.

Load balancer backend server group can be imported using the id, e.g.

\$ terraform import alicloud\_slb\_server\_group.example abc123456

# » alicloud\_vpc

Provides a VPC resource.

**NOTE:** Terraform will auto build a router and a route table while it uses alicloud\_vpc to build a vpc resource.

## » Example Usage

```
Basic Usage
```

# » Argument Reference

The following arguments are supported:

- cidr\_block (Required, Forces new resource) The CIDR block for the VPC.
- name (Optional) The name of the VPC. Defaults to null.
- description (Optional) The VPC description. Defaults to null.

#### » Attributes Reference

- id The ID of the VPC.
- cidr\_block The CIDR block for the VPC.
- name The name of the VPC.
- description The description of the VPC.
- router\_id The ID of the router created by default on VPC creation.
- route\_table\_id The route table ID of the router created by default on VPC creation.

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

\$ terraform import alicloud\_vpc.example vpc-abc123456

# » alicloud vswitch

Provides a VPC switch resource.

# » Example Usage

## » Argument Reference

The following arguments are supported:

- availability\_zone (Required, Forces new resource) The AZ for the switch.
- vpc\_id (Required, Forces new resource) The VPC ID.
- cidr\_block (Required, Forces new resource) The CIDR block for the switch.
- name (Optional) The name of the switch. Defaults to null.
- description (Optional) The switch description. Defaults to null.

## » Attributes Reference

- id The ID of the switch.
- availability\_zone The AZ for the switch.

- cidr\_block The CIDR block for the switch.
- vpc\_id The VPC ID.
- name The name of the switch.
- description The description of the switch.

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

\$ terraform import alicloud\_vswitch.example vsw-abc123456

# » alicloud\_route\_entry

Provides a route entry resource. A route entry represents a route item of one VPC route table.

# » Example Usage

## » Argument Reference

The following arguments are supported:

• router\_id - (Deprecated) This argument has beeb deprecated. Please use other arguments to launch a custom route entry.

- route\_table\_id (Required, Forces new resource) The ID of the route table
- destination\_cidrblock (Required, Forces new resource) The RouteEntry's target network segment.
- nexthop\_type (Required, Forces new resource) The next hop type. Available value is Instance and RouterInterface. Instance points to ECS Instance
- nexthop\_id (Required, Forces new resource) The route entry's next hop. ECS instance ID or VPC router interface ID.

#### » Attributes Reference

The following attributes are exported:

- router\_id The ID of the virtual router attached to Vpc.
- route\_table\_id The ID of the route table.
- destination\_cidrblock The RouteEntry's target network segment.
- nexthop\_type The next hop type.
- nexthop\_id The route entry's next hop.

# » Import

Router entry can be imported using the id, e.g.

\$ terraform import alicloud\_route\_entry.example abc123456

# » alicloud\_nat\_gateway

Provides a resource to create a VPC NAT Gateway.

**NOTE:** From version 1.7.1, the resource deprecates bandwidth packages. And if you want to add public IP, you can use resource 'alicloud\_eip\_association' to bind several elastic IPs for one Nat Gateway.

**NOTE:** Resource bandwidth packages will not be supported since 00:00 on November 4, 2017, and public IP can be replaced be elastic IPs. If a Nat Gateway has already bought some bandwidth packages, it can not bind elastic IP and you have to submit the work order to solve.

### » Example Usage

Basic usage

```
resource "alicloud_vpc" "vpc" {
            = "tf_test_foo"
  cidr block = "172.16.0.0/12"
}
resource "alicloud_vswitch" "vsw" {
                 = "${alicloud_vpc.vpc.id}"
 vpc_id
               = "172.16.0.0/21"
 cidr_block
 availability_zone = "cn-beijing-b"
}
resource "alicloud_nat_gateway" "nat_gateway" {
 vpc_id = "${alicloud_vpc.vpc.id}"
      = "Small"
 spec
 name
        = "test foo"
```

The following arguments are supported:

- vpc\_id (Required, Forces New Resorce) The VPC ID.
- spec (Deprecated) It has been deprecated from provider version 1.7.1, and new field 'specification' can replace it.
- specification (Optional) The specification of the nat gateway. Valid values are Small, Middle and Large. Default to Small. Details refer to Nat Gateway Specification.
- name (Optional) Name of the nat gateway. The value can have a string of 2 to 128 characters, must contain only alphanumeric characters or hyphens, such as "-","","\_", and must not begin or end with a hyphen, and must not begin with http:// or https://. Defaults to null.
- description (Optional) Description of the nat gateway, This description can have a string of 2 to 256 characters, It cannot begin with http:// or https://. Defaults to null.
- bandwidth\_packages (Deprecated) It has been deprecated from provider version 1.7.1. Resource 'alicloud\_eip\_association' can bind several elastic IPs for one Nat Gateway.

### » Attributes Reference

- id The ID of the nat gateway.
- name The name of the nat gateway.
- description The description of the nat gateway.

- spec It has been deprecated from provider version 1.7.1.
- specification The specification of the nat gateway.
- vpc\_id The VPC ID for the nat gateway.
- bandwidth\_package\_ids A list ID of the bandwidth packages, and split them with commas
- snat\_table\_ids The nat gateway will auto create a snap and forward item, the snat\_table\_ids is the created one.
- forward\_table\_ids The nat gateway will auto create a snap and forward item, the forward\_table\_ids is the created one.

Nat gateway can be imported using the id, e.g.

\$ terraform import alicloud\_nat\_gateway.example ngw-abc123456

# » alicloud router interface

Provides a VPC router interface resource aim to build a connection between two VPCs.

**NOTE:** Only one pair of connected router interfaces can exist between two routers. Up to 5 router interfaces can be created for each router and each account.

**NOTE:** The router interface is not connected when it is created. It can be connected by means of resource alicloud\_router\_interface\_connection.

```
resource "alicloud_vpc" "foo" {
  name = "tf_test_foo12345"
  cidr_block = "172.16.0.0/12"
}

resource "alicloud_router_interface" "interface" {
  opposite_region = "cn-beijing"
  router_type = "VRouter"
  router_id = "${alicloud_vpc.foo.router_id}"
  role = "InitiatingSide"
  specification = "Large.2"
  name = "test1"
  description = "test1"
}
```

The following arguments are supported:

- opposite\_region (Required, Force New) The Region of peer side.
- router\_type (Required, Forces New) Router Type. Optional value: VRouter, VBR. Accepting side router interface type only be VRouter.
- opposite\_router\_type (Deprecated) It has been deprecated from version 1.11.0. resource alicloud\_router\_interface\_connection's 'opposite\_router\_type' instead.
- router\_id (Required, Force New) The Router ID.
- opposite\_router\_id (Deprecated) It has been deprecated from version 1.11.0. Use resource alicloud\_router\_interface\_connection's 'opposite router id' instead.
- role (Required, Force New) The role the router interface plays. Optional value: InitiatingSide, AcceptingSide.
- specification (Optional) Specification of router interfaces. It is valid when role is InitiatingSide. Accepting side's role is default to set as 'Negative'. For more about the specification, refer to Router interface specification.
- access\_point\_id (Deprecated) It has been deprecated from version
   1110
- opposite\_access\_point\_id (Deprecated) It has been deprecated from version 1.11.0.
- opposite\_interface\_id (Deprecated) It has been deprecated from version 1.11.0. Use resource alicloud\_router\_interface\_connection's 'opposite\_router\_id' instead.
- opposite\_interface\_owner\_id (Deprecated) It has been deprecated from version 1.11.0. Use resource alicloud\_router\_interface\_connection's 'opposite\_interface\_id' instead.
- name (Optional) Name of the router interface. Length must be 2-80 characters long. Only Chinese characters, English letters, numbers, period (.), underline (\_), or dash (-) are permitted. If it is not specified, the default value is interface ID. The name cannot start with http:// and https://.
- description (Optional) Description of the router interface. It can be 2-256 characters long or left blank. It cannot start with http:// and https://.
- health\_check\_source\_ip (Optional) Used as the Packet Source IP of health check for disaster recovery or ECMP. It is only valid when router\_type is VBR. The IP must be an unused IP in the local VPC. It and health check target ip must be specified at the same time.
- health\_check\_target\_ip (Optional) Used as the Packet Target IP of health check for disaster recovery or ECMP. It is only valid when router\_type is VBR. The IP must be an unused IP in the local VPC. It and health\_check\_source\_ip must be specified at the same time.

#### » Attributes Reference

The following attributes are exported:

- id Router interface ID.
- router\_id Router ID.
- router\_type Router type.
- role Router interface role.
- name Router interface name.
- description Router interface description.
- specification Router nterface specification.
- access\_point\_id Access point of the router interface.
- opposite\_access\_point\_id (Deprecated) It has been deprecated from version 1.11.0.
- opposite\_router\_type Peer router type.
- opposite\_router\_id Peer router ID.
- opposite\_interface\_id Peer router interface ID.
- opposite\_interface\_owner\_id Peer account ID.
- health\_check\_source\_ip Source IP of Packet of Line HealthCheck.
- health\_check\_target\_ip Target IP of Packet of Line HealthCheck.

### » Import

The router interface can be imported using the id, e.g.

\$ terraform import alicloud\_router\_interface.interface ri-abc123456

# » alicloud\_router\_interface\_connection

Provides a VPC router interface connection resource to connect two router interfaces which are in two different VPCs. After that, all of the two router interface will be active.

**NOTE:** At present, Router interface does not support changing opposite router interface, the connection delete action is only deactiving it to inactive, not modifying the connection to empty.

**NOTE:** If you want to changing opposite router interface, you can delete router interface and re-build them.

**NOTE:** A integrated router interface connection tunnel requires both InitiatingSide and AcceptingSide configuring opposite router interface.

# » Example Usage

```
resource "alicloud_vpc" "foo" {
 name = "vpc-for-initiating"
  cidr_block = "172.16.0.0/12"
}
resource "alicloud_router_interface" "initiating" {
  opposite_region = "cn-beijing"
 router_type = "VRouter"
 router_id = "${alicloud_vpc.foo.router_id}"
 role = "InitiatingSide"
 specification = "Large.2"
 name = "initaiting"
}
resource "alicloud_vpc" "bar" {
 name = "vpc-for-accepting"
  cidr_block = "192.168.0.0/16"
resource "alicloud_router_interface" "accepting" {
  opposite_region = "cn-beijing"
 router_type = "VRouter"
 router_id = "${alicloud_vpc.bar.router_id}"
 role = "AcceptingSide"
 name = "accepting"
}
// A integrated router interface connection tunnel requires both InitiatingSide and Accepting
resource "alicloud_router_interface_connection" "foo" {
  interface_id = "${alicloud_router_interface.initiating.id}"
  opposite_interface_id = "${alicloud_router_interface.accepting.id}"
}
resource "alicloud_router_interface_connection" "bar" {
  interface_id = "${alicloud_router_interface.accepting.id}"
  opposite_interface_id = "${alicloud_router_interface.initiating.id}"
}
```

## » Argument Reference

The following arguments are supported:

• interface\_id - (Required, ForceNew) One side router interface ID.

- opposite\_interface\_id (Required, ForceNew) Another side router interface ID. It must belong the specified "opposite\_interface\_owner\_id" account.
- opposite\_interface\_owner\_id (Optional, ForceNew) Another side router interface account ID. Log on to the Alibaba Cloud console, select User Info > Account Management to check the account ID. Default to Provider account id.
- opposite\_router\_id (Optional, ForceNew) Another side router ID. It must belong the specified "opposite\_interface\_owner\_id" account. It is valid when field "opposite\_interface\_owner\_id" is specified.
- opposite\_router\_type (Optional, ForceNew) Another side router Type. Optional value: VRouter, VBR. It is valid when field "opposite\_interface\_owner\_id" is specified.

#### » Attributes Reference

The following attributes are exported:

• id - Router interface ID. The value is equal to "interface id".

### » Import

The router interface connection can be imported using the id, e.g.

\$ terraform import alicloud\_router\_interface\_connection.foo ri-abc123456

# » alicloud forward

Provides a forward resource.

```
Basic Usage
resource "alicloud_vpc" "foo" {
    ...
}
resource "alicloud_vswitch" "foo" {
    ...
}
resource "alicloud_nat_gateway" "foo" {
```

```
vpc_id = "${alicloud_vpc.foo.id}"
         = "Small"
  spec
 name
        = "test foo"
  bandwidth_packages = [
    {
      ip\_count = 2
      bandwidth = 5
      zone
    },
      ip_count = 1
      bandwidth = 6
            = "cn-beijing-b"
    }
 ٦
  depends_on = [
    "alicloud_vswitch.foo",
}
resource "alicloud_forward_entry" "foo" {
  forward_table_id = "${alicloud_nat_gateway.foo.forward_table_ids}"
                   = "${alicloud_nat_gateway.foo.bandwidth_packages.0.public_ip_addresses}"
  external_ip
  external_port
                   = "80"
                   = "tcp"
  ip_protocol
                   = "172.16.0.3"
  internal_ip
  internal_port
                   = "8080"
}
```

The following arguments are supported:

- forward\_table\_id (Required, Forces new resource) The value can get from alicloud\_nat\_gateway Attributes "forward\_table\_ids".
- external\_ip (Required, Forces new resource) The external ip address, the ip must along bandwidth package public ip which alicloud\_nat\_gateway argument bandwidth\_packages.
- external\_port (Required) The external port, valid value is 1~65535 any.
- ip\_protocol (Required) The ip protocal, valid value is tcp|udp|any.
- internal\_ip (Required) The internal ip, must a private ip.
- internal\_port (Required) The internal port, valid value is 1~65535 any.

# » alicloud\_snat

Provides a snat resource.

```
Basic Usage
resource "alicloud_vpc" "foo" {
}
resource "alicloud_vswitch" "foo" {
}
resource "alicloud_nat_gateway" "foo" {
  vpc_id = "${alicloud_vpc.foo.id}"
  spec = "Small"
  name
       = "test_foo"
  bandwidth_packages = [
    {
      ip\_count = 2
      bandwidth = 5
      zone
               = ""
    },
      ip_count = 1
     bandwidth = 6
           = "cn-beijing-b"
  ]
  depends_on = [
    "alicloud_vswitch.foo"
}
resource "alicloud_snat_entry" "foo" {
  snat_table_id
                  = "${alicloud_nat_gateway.foo.snat_table_ids}"
  source_vswitch_id = "${alicloud_vswitch.foo.id}"
                   = "${alicloud_nat_gateway.foo.bandwidth_packages.0.public_ip_addresses}
  snat_ip
}
```

The following arguments are supported:

- snat\_table\_id (Required, Forces new resource) The value can get from alicloud\_nat\_gateway Attributes "snat\_table\_ids".
- source\_vswitch\_id (Required, Forces new resource) The vswitch ID.
- snat\_ip (Required) The SNAT ip address, the ip must along bandwidth package public ip which alicloud\_nat\_gateway argument bandwidth\_packages.

# » alicloud db account

Provides an RDS account resource and used to manage databases. A RDS instance supports multiple database account.

## » Example Usage

```
resource "alicloud_db_account" "default" {
   instance_id = "rm-2eps..."
   name = "tf_account"
   password = "..."
}
```

#### » Argument Reference

The following arguments are supported:

- instance\_id (Required) The Id of instance in which account belongs.
- name (Required) Operation account requiring a uniqueness check. It may consist of lower case letters, numbers, and underlines, and must start with a letter and have no more than 16 characters.
- password (Required) Operation password. It may consist of letters, digits, or underlines, with a length of 6 to 32 characters.
- description (Optional) Database description. It cannot begin with https://. It must start with a Chinese character or English letter. It can include Chinese and English characters, underlines (\_), hyphens (-), and numbers. The length may be 2-256 characters.
- type Privilege type of account.
  - Normal: Common privilege.
  - Super: High privilege.

Default to Normal. It is is valid for MySQL 5.5/5.6 only.

## » Attributes Reference

The following attributes are exported:

- id The current account resource ID. Composed of instance ID and account name with format ":".
- instance\_id The Id of DB instance.
- name The name of DB account.
- description The account description.
- type Privilege type of account.

## » Import

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

\$ terraform import alicloud\_db\_account.example "rm-12345:tf\_account"

# » alicloud\_db\_account\_privilege

Provides an RDS account privilege resource and used to grant several database some access privilege. A database can be granted by multiple account.

```
resource "alicloud_db_database" "default" {
    count = 2
    instance_id = "rm-2eps..."
    name = "tf_database"
    character_set = "utf8"
}

resource "alicloud_db_account_privilege" "default" {
    instance_id = "rm-2eps..."
    account_name = "tf_account"
    privilege = "ReadOnly"
    db_names = ["${alicloud_db_database.base.*.name}"]
}
```

The following arguments are supported:

- instance id (Required) The Id of instance in which account belongs.
- account\_name (Required) A specified account name.
- privilege The privilege of one account access database. Valid values: ["ReadOnly", "ReadWrite"]. Default to "ReadOnly".
- db\_names (Optional) List of specified database name.

#### » Attributes Reference

The following attributes are exported:

- id The current account resource ID. Composed of instance ID, account name and privilege with format "::".
- instance\_id The Id of DB instance.
- account\_name The name of DB account.
- privilege The specified account privilege.
- db\_names List of granted privilege database names.

### » Import

RDS account privilege can be imported using the id, e.g.

```
$ terraform import alicloud_db_account_privilege.example "rm-12345:tf_account:ReadOnly"
```

# » alicloud\_db\_backup\_policy

Provides an RDS instance backup policy resource and used to configure instance backup policy.

**NOTE:** Each DB instance has a backup policy and it will be set default values when destroying the resource.

```
resource "alicloud_db_backup_policy" "default" {
  instance_id = "rm-2eps..."
  backup_period = ["Monday", "Wednesday"]
  backup_time = "02:00Z-03:00Z"
  retention_period = 7
  log_backup = true
```

The following arguments are supported:

- instance\_id (Required) The Id of instance that can run database.
- backup\_period (Optional) DB Instance backup period. Valid values: [Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday]. Default to ["Tuesday", "Thursday", "Saturday"].
- backup\_time (Optional) DB instance backup time, in the format of HH:mmZ- HH:mmZ. Time setting interval is one hour. Default to "02:00Z-03:00Z". China time is 8 hours behind it.
- retention\_period (Optional) Instance backup retention days. Valid values: [7-730]. Default to 7.
- log\_backup (Optional) Whether to backup instance log. Default to true.
- log\_retention\_period (Optional) Instance log backup retention days. Valid values: [7-730]. Default to 7. It can be larger than 'retention period'.

#### » Attributes Reference

The following attributes are exported:

- id The current backup policy resource ID. It is same as 'instance id'.
- instance\_id The Id of DB instance.
- backup\_period DB Instance backup period.
- backup\_time DB instance backup time.
- retention\_period Instance backup retention days.
- log\_backup Whether to backup instance log.
- log\_retention\_period Instance log backup retention days.

# » Import

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

\$ terraform import alicloud\_db\_backup\_policy.example "rm-12345678"

# » alicloud db connection

Provides an RDS connection resource to allocate an Internet connection string for RDS instance.

**NOTE:** Each RDS instance will allocate a intranet connection string automatically and its prifix is RDS instance ID. To avoid unnecessary conflict, please specified a internet connection prefix before applying the resource.

### » Example Usage

```
resource "alicloud_db_connection" "default" {
   instance_id = "rm-2eps..."
   connection_prefix = "alicloud"
   port = "3306"
}
```

## » Argument Reference

The following arguments are supported:

- instance\_id (Required) The Id of instance that can run database.
- connection\_prefix (Optional) Prefix of an Internet connection string. It must be checked for uniqueness. It may consist of lowercase letters, numbers, and underlines, and must start with a letter and have no more than 30 characters. Default to + 'tf'.
- port (Optional) Internet connection port. Valid value: [3001-3999]. Default to 3306.

# » Attributes Reference

The following attributes are exported:

- id The current instance connection resource ID. Composed of instance ID and connection string with format ":".
- connection\_prefix Prefix of a connection string.
- port Connection instance port.
- connection\_string Connection instance string.
- ip\_address The ip address of connection string.

#### » Import

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

\$ terraform import alicloud\_db\_connection.example abc12345678

# » alicloud db database

Provides an RDS database resource. A DB database deployed in a DB instance. A DB instance can own multiple databases.

**NOTE:** At present, it does not support creating 'PostgreSQL' and 'PPAS' database. You have to login RDS instance to create manually.

# » Example Usage

```
resource "alicloud_db_database" "default" {
   instance_id = "rm-2eps..."
   name = "tf_database"
   character_set = "utf8"
}
```

### » Argument Reference

The following arguments are supported:

- instance\_id (Required) The Id of instance that can run database.
- name (Required) Name of the database requiring a uniqueness check. It may consist of lower case letters, numbers, and underlines, and must start with a letter and have no more than 64 characters.
- character\_set (Required) Character set. The value range is limited to the following:
  - MySQL: [ utf8, gbk, latin1, utf8mb4 ] (utf8mb4 only supports versions 5.5 and 5.6).
  - SQLServer: [ Chinese\_PRC\_CI\_AS, Chinese\_PRC\_CS\_AS,
     SQL\_Latin1\_General\_CP1\_CI\_AS, SQL\_Latin1\_General\_CP1\_CS\_AS,
     Chinese\_PRC\_BIN ]
- description (Optional) Database description. It cannot begin with https://. It must start with a Chinese character or English letter. It can include Chinese and English characters, underlines (\_), hyphens (-), and numbers. The length may be 2-256 characters.

#### » Attributes Reference

The following attributes are exported:

• id - The current database resource ID. Composed of instance ID and database name with format ":".

- instance\_id The Id of DB instance.
- name The name of DB database.
- character set Character set that database used.
- description The database description.

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

\$ terraform import alicloud\_db\_database.example "rm-12345:tf\_database"

# » alicloud db instance

Provides an RDS instance resource. A DB instance is an isolated database environment in the cloud. A DB instance can contain multiple user-created databases.

# » Example Usage

```
resource "alicloud_db_instance" "default" {
    engine = "MySQL"
    engine_version = "5.6"
    db_instance_class = "rds.mysql.t1.small"
    db_instance_storage = "10"
}
```

## » Argument Reference

The following arguments are supported:

- engine (Required) Database type. Value options: MySQL, SQLServer, PostgreSQL, and PPAS.
- engine\_version (Required) Database version. Value options:
  - -5.5/5.6/5.7 for MySQL
  - -2008r2/2012 for SQLServer
  - -9.4/10.0 for PostgreSQL
  - 9.3 for PPAS
- db\_instance\_class (Deprecated) It has been deprecated from version 1.5.0 and use 'instance\_type' to replace.

- instance\_type (Required) DB Instance type. For details, see Instance type table.
- db\_instance\_storage (Deprecated) It has been deprecated from version 1.5.0 and use 'instance storage' to replace.
- instance\_storage (Required) User-defined DB instance storage space. Value range:
  - [5, 2000] for MySQL/PostgreSQL/PPAS HA dual node edition;
  - [20,1000] for MySQL 5.7 basic single node edition;
  - [10, 2000] for SQL Server 2008R2;
  - [20,2000] for SQL Server 2012 basic single node edition Increase progressively at a rate of 5 GB. For details, see Instance type table.
- instance\_name (Optional) The name of DB instance. It a string of 2 to 256 characters.
- instance\_charge\_type (Optional) Valid values are Prepaid, Postpaid, Default to Postpaid.
- period (Optional) The duration that you will buy DB instance (in month). It is valid when instance\_charge\_type is PrePaid. Valid values: [1~9], 12, 24, 36. Default to 1.
- zone\_id (Optional) The Zone to launch the DB instance. From version 1.8.1, it supports multiple zone. If it is a multi-zone and vswitch\_id is specified, the vswitch must in the one of them. The multiple zone ID can be retrieved by setting multi to "true" in the data source alicloud zones.
- multi\_az (Optional) It has been deprecated from version 1.8.1, and zone\_id can support multiple zone.
- db\_instance\_net\_type (Deprecated) It has been deprecated from version 1.5.0. If you want to set public connection, please use new resource alicloud\_db\_connection. Default to Intranet.
- allocate\_public\_connection (Deprecated) It has been deprecated from version 1.5.0. If you want to allocate public connection string, please use new resource alicloud\_db\_connection.
- instance\_network\_type (Deprecated) It has been deprecated from version 1.5.0. If you want to create instances in VPC network, this parameter must be set.
- vswitch\_id (Optional) The virtual switch ID to launch DB instances in one VPC.
- master\_user\_name (Deprecated) It has been deprecated from version 1.5.0. New resource alicloud\_db\_account field 'name' replaces it.

- master\_user\_password (Deprecated) It has been deprecated from version 1.5.0. New resource alicloud\_db\_account field 'password' replaces it.
- preferred\_backup\_period (Deprecated) It has been deprecated from version 1.5.0. New resource alicloud\_db\_backup\_policy field 'backup period' replaces it.
- preferred\_backup\_time (Deprecated) It has been deprecated from version 1.5.0. New resource alicloud\_db\_backup\_policy field 'backup\_time' replaces it.
- backup\_retention\_period (Deprecated) It has been deprecated from version 1.5.0. New resource alicloud\_db\_backup\_policy field 'retention\_period' replaces it.
- security\_ips (Optional) List of IP addresses allowed to access all databases of an instance. The list contains up to 1,000 IP addresses, separated by commas. Supported formats include 0.0.0.0/0, 10.23.12.24 (IP), and 10.23.12.24/24 (Classless Inter-Domain Routing (CIDR) mode. /24 represents the length of the prefix in an IP address. The range of the prefix length is [1,32]).
- db\_mappings (Deprecated) It has been deprecated from version 1.5.0. New resource alicloud\_db\_database replaces it.

**NOTE:** Because of data backup and migration, change DB instance type and storage would cost  $15\sim20$  minutes. Please make full preparation before changing them.

### » Attributes Reference

- id The RDS instance ID.
- instance\_charge\_type The instance charge type.
- period The DB instance using duration.
- engine Database type.
- engine\_version The database engine version.
- db\_instance\_class (Deprecated from version 1.5.0)
- instance\_type The RDS instance type.
- db\_instance\_storage (Deprecated from version 1.5.0)
- instance\_storage The RDS instance storage space.
- instance\_name The name of DB instance.
- port RDS database connection port.
- connection\_string RDS database connection string.
- zone id The zone ID of the RDS instance.
- db instance net type (Deprecated from version 1.5.0).

- instance\_network\_type (Deprecated from version 1.5.0).
- db\_mappings - (Deprecated from version 1.5.0).
- preferred\_backup\_period (Deprecated from version 1.5.0).
- preferred\_backup\_time (Deprecated from version 1.5.0).
- backup\_retention\_period (Deprecated from version 1.5.0).
- security\_ips Security ips of instance whitelist.
- connections (Deprecated from version 1.5.0).
- vswitch\_id If the rds instance created in VPC, then this value is virtual switch ID.
- master\_user\_name (Deprecated from version 1.5.0).
- preferred\_backup\_period (Deprecated from version 1.5.0).
- preferred\_backup\_time (Deprecated from version 1.5.0).
- backup\_retention\_period (Deprecated from version 1.5.0).

### » Import

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

\$ terraform import alicloud\_db\_instance.example rm-abc12345678

# » alicloud ess attachment

Attaches several ECS instances to a specified scaling group or remove them from it.

**NOTE:** ECS instances can be attached or remove only when the scaling group is active and it has no scaling activity in progress.

**NOTE:** There are two types ECS instances in a scaling group: "AutoCreated" and "Attached". The total number of them can not larger than the scaling group "MaxSize".

### » Example Usage

```
resource "alicloud_ess_scaling_configuration" "config" {
    scaling_group_id = "${alicloud_ess_scaling_group.scaling.id}"
    image_id = "ubuntu_140405_64_40G_cloudinit_20161115.vhd"
    instance_type = "ecs.n4.large"
    security_group_id = "${alicloud_security_group.classic.id}"
    active = true
    enable = true
}

resource "alicloud_ess_attachment" "att" {
    scaling_group_id = "${alicloud_ess_scaling_group.scaling.id}"
    instance_ids = ["${alicloud_instance.instance.*.id}"]
    force = true
}
```

### » Argument Reference

The following arguments are supported:

- scaling\_group\_id (Required) ID of the scaling group of a scaling configuration.
- instance\_ids (Required) ID of the ECS instance to be attached to the scaling group. You can input up to 20 IDs.
- force (Optional) Whether to remove forcibly "AutoCreated" ECS instances in order to release scaling group capacity "MaxSize" for attaching ECS instances. Default to false.

**NOTE:** "AutoCreated" ECS instance will be deleted after it is removed from scaling group, but "Attached" will be not.

**NOTE:** Restrictions on attaching ECS instances:

- The attached ECS instances and the scaling group must have the same region and network type(Classic or VPC).
- The attached ECS instances and the instance with active scaling configurations must have the same instance type.
- The attached ECS instances must in the running state.
- The attached ECS instances has not been attached to other scaling groups.
- The attached ECS instances supports Subscription and Pay-As-You-Go payment methods.

#### » Attributes Reference

- id The ESS attachment resource ID.
- instance\_ids ID of list "Attached" ECS instance.
- force Whether to delete "AutoCreated" ECS instances.

# » Import

ESS attachment can be imported using the id or scaling group id, e.g.

\$ terraform import alicloud\_ess\_attachment.example asg-abc123456

# » alicloud\_ess\_scaling\_group

Provides a ESS scaling group resource which is a collection of ECS instances with the same application scenarios.

It defines the maximum and minimum numbers of ECS instances in the group, and their associated Server Load Balancer instances, RDS instances, and other attributes.

**NOTE:** You can launch an ESS scaling group for a VPC network via specifying parameter vswitch\_ids.

### » Example Usage

### » Argument Reference

- min\_size (Required) Minimum number of ECS instances in the scaling group. Value range: [0, 100].
- max\_size (Required) Maximum number of ECS instances in the scaling group. Value range: [0, 100].
- scaling\_group\_name (Optional) Name shown for the scaling group, which must contain 2-40 characters (English or Chinese). If this parameter is not specified, the default value is ScalingGroupId.
- default\_cooldown (Optional) Default cool-down time (in seconds) of the scaling group. Value range: [0, 86400]. The default value is 300s.

- vswitch\_id (Deprecated) It has been deprecated from version 1.7.1 and new field 'vswitch\_ids' replaces it.
- vswitch\_ids (Optional) List of virtual switch IDs in which the ecs instances to be launched.
- removal\_policies (Optional) RemovalPolicy is used to select the ECS instances you want to remove from the scaling group when multiple candidates for removal exist. Optional values:
  - OldestInstance: removes the first ECS instance attached to the scaling group.
  - NewestInstance: removes the first ECS instance attached to the scaling group.
  - OldestScalingConfiguration: removes the ECS instance with the oldest scaling configuration.
  - Default values: OldestScalingConfiguration and OldestInstance. You can enter up to two removal policies.
- db\_instance\_ids (Optional) If an RDS instance is specified in the scaling group, the scaling group automatically attaches the Intranet IP addresses of its ECS instances to the RDS access whitelist.
  - The specified RDS instance must be in running status.
  - The specified RDS instance's whitelist must have room for more IP addresses.
- loadbalancer\_ids (Optional) If a Server Load Balancer instance is specified in the scaling group, the scaling group automatically attaches its ECS instances to the Server Load Balancer instance.
  - The Server Load Balancer instance must be enabled.
  - At least one listener must be configured for each Server Load Balancer and it HealthCheck must be on. Otherwise, creation will failed.
  - The Server Load Balancer instance attached with VPC-type ECS instances cannot be attached to the scaling group.
  - The default weight of an ECS instance attached to the Server Load Balancer instance is 50.

### » Attributes Reference

- id The scaling group ID.
- min\_size The minimum number of ECS instances.
- max\_size The maximum number of ECS instances.
- scaling\_group\_name The name of the scaling group.
- default\_cooldown The default cool-down of the scaling group.
- removal\_policies The removal policy used to select the ECS instance to remove from the scaling group.
- db\_instance\_ids The db instances id which the ECS instance attached to.

- loadbalancer\_ids The slb instances id which the ECS instance attached to
- vswitch\_ids The vswitches id in which the ECS instance launched.

### » Import

ESS scaling group can be imported using the id, e.g.

\$ terraform import alicloud\_ess\_scaling\_group.example asg-abc123456

# » alicloud\_ess\_scaling\_configuration

Provides a ESS scaling configuration resource.

**NOTE:** Several instance types have outdated in some regions and availability zones, such as ecs.t1.\*, ecs.s2.\*, ecs.n1.\* and so on. If you want to keep them, you should set is\_outdated to true. For more about the upgraded instance type, refer to alicloud\_instance\_types datasource.

# » Example Usage

```
resource "alicloud_security_group" "classic" {
  # Other parameters...
}
resource "alicloud_ess_scaling_group" "scaling" {
                    = 1
 min_size
 max_size
 removal_policies = ["OldestInstance", "NewestInstance"]
}
resource "alicloud_ess_scaling_configuration" "config" {
  scaling_group_id = "${alicloud_ess_scaling_group.scaling.id}"
                  = "ubuncu__---
= "ecs.n4.large"
  image_id
                   = "ubuntu_140405_64_40G_cloudinit_20161115.vhd"
 instance_type
  security_group_id = "${alicloud_security_group.classic.id}"
}
```

## » Argument Reference

- scaling\_group\_id (Required) ID of the scaling group of a scaling configuration.
- image\_id (Required) ID of an image file, indicating the image resource selected when an instance is enabled.
- instance\_type (Required) Resource type of an ECS instance.
- instance\_name (Optional) Name of an ECS instance. Default to "ESS-Instance". It is valid from version 1.7.1.
- io\_optimized (Deprecated) It has been deprecated on instance resource. All the launched alicloud instances will be I/O optimized.
- is\_outdated (Optional) Whether to use outdated instance type. Default to false.
- security\_group\_id (Required) ID of the security group to which a newly created instance belongs.
- scaling\_configuration\_name (Optional) Name shown for the scheduled task. If this parameter value is not specified, the default value is ScalingConfigurationId.
- internet\_charge\_type (Optional) Network billing type, Values: Pay-ByBandwidth or PayByTraffic. Default to PayByBandwidth.
- internet\_max\_bandwidth\_in (Optional) Maximum incoming bandwidth from the public network, measured in Mbps (Mega bit per second). The value range is [1,200].
- internet\_max\_bandwidth\_out (Optional) Maximum outgoing bandwidth from the public network, measured in Mbps (Mega bit per second). The value range for PayByBandwidth is [0,100].
- system\_disk\_category (Optional) Category of the system disk. The parameter value options are cloud\_efficiency, cloud\_ssd and cloud. cloud only is used to some no I/O optimized instance. Default to cloud\_efficiency.
- enable (Optional) Whether enable the specified scaling group(make it active) to which the current scaling configuration belongs.
- active (Optional) Whether active current scaling configuration in the specified scaling group. Default to false.
- substitute (Optional) The another scaling configuration which will be active automatically and replace current configuration when setting active to 'false'. It is invalid when active is 'true'
- user\_data (Optional) User-defined data to customize the startup behaviors of the ECS instance and to pass data into the ECS instance.
- key\_name (Optional) The name of key pair that can login ECS instance successfully without password. If it is specified, the password would be invalid.
- role\_name (Optional) Instance RAM role name. The name is provided and maintained by RAM. You can use alicloud\_ram\_role to create a new one.
- force\_delete (Optional) The last scaling configuration will be deleted forcibly with deleting its scaling group. Default to false.
- data\_disk (Optional) DataDisk mappings to attach to ecs instance. See

Block datadisk below for details.

- instance\_ids (Deprecated) It has been deprecated from version 1.6.0. New resource alicloud ess attachment replaces it.
- tags (Optional) A mapping of tags to assign to the resource. It will be applied for ECS instances finally.

**NOTE:** Before enabling the scaling group, it must have a active scaling configuration.

**NOTE:** If the number of attached ECS instances by <code>instance\_ids</code> is smaller than MinSize, the Auto Scaling Service will automatically create ECS Pay-As-You-Go instance to cater to MinSize. For example, MinSize=5 and 2 existing ECS instances has been attached to the scaling group. When the scaling group is enabled, it will create 3 instances automatically based on its current active scaling configuration.

**NOTE:** Restrictions on attaching ECS instances:

- The attached ECS instances and the scaling group must have the same region and network type(Classic or VPC).
- The attached ECS instances and the instance with active scaling configurations must have the same instance type.
- The attached ECS instances must in the running state.
- The attached ECS instances has not been attached to other scaling groups.
- The attached ECS instances supports Subscription and Pay-As-You-Go payment methods.

**NOTE:** The last scaling configuration can't be set to inactive and deleted alone.

#### » Block datadisk

The datadisk mapping supports the following:

- size (Optional) Size of data disk, in GB. The value ranges from 5 to 2,000 for a cloud disk and from 5 to 1,024 for an ephemeral disk. A maximum of four values can be entered.
- category (Optional) Category of data disk. The parameter value options are cloud and ephemeral.
- snapshot\_id (Optional) Snapshot used for creating the data disk. If this parameter is specified, the size parameter is neglected, and the size of the created disk is the size of the snapshot.

### » Attributes Reference

The following attributes are exported:

• id - The scaling configuration ID.

- active Wether the current scaling configuration is actived.
- image\_id The ecs instance Image id.
- instance\_type The ecs instance type.
- security\_group\_id ID of the security group to which a newly created instance belongs.
- scaling\_configuration\_name Name of scaling configuration.
- internet\_charge\_type Internet charge type of ecs instance.
- key\_name The name of key pair that has been bound in ECS instance.
- role name The name of RAM role that has been bound in ECS instance.
- user\_data The hash value of the user data.
- force\_delete Whether delete the last scaling configuration forcibly with deleting its scaling group.
- tags The scaling instance tags, use jsonencode(item) to display the value.
- instance name The ecs instance name.

# » alicloud ess scaling rule

Provides a ESS scaling rule resource.

# » Example Usage

```
resource "alicloud_ess_scaling_group" "scaling" {
    # Other parameters...
}

resource "alicloud_ess_scaling_configuration" "config" {
    # Other parameters...
}

resource "alicloud_ess_scaling_rule" "rule" {
    scaling_group_id = "${alicloud_ess_scaling_group.scaling.id}"
    adjustment_type = "TotalCapacity"
    adjustment_value = 2
    cooldown = 60
}
```

### » Argument Reference

- scaling\_group\_id (Required) ID of the scaling group of a scaling rule.
- adjustment\_type (Required) Adjustment mode of a scaling rule. Optional values:

- QuantityChangeInCapacity: It is used to increase or decrease a specified number of ECS instances.
- PercentChangeInCapacity: It is used to increase or decrease a specified proportion of ECS instances.
- TotalCapacity: It is used to adjust the quantity of ECS instances in the current scaling group to a specified value.
- adjustment\_value (Required) Adjusted value of a scaling rule. Value range:
  - QuantityChangeInCapacity (0, 100] U (-100, 0]
  - PercentChangeInCapacity [0, 10000] U [-10000, 0]
  - TotalCapacity [0, 100]
- scaling\_rule\_name (Optional) Name shown for the scaling rule, which is a string containing 2 to 40 English or Chinese characters.
- cooldown (Optional) Cool-down time of a scaling rule. Value range: [0, 86,400], in seconds. The default value is empty.

#### » Attributes Reference

The following attributes are exported:

- id The scaling rule ID.
- scaling\_group\_id The id of scaling group.
- ari Unique identifier of a scaling rule.
- adjustment\_type Adjustment mode of a scaling rule.
- adjustment\_value Adjustment value of a scaling rule.
- scaling\_rule\_name Name of a scaling rule.
- cooldown Cool-down time of a scaling rule.

# » alicloud\_ess\_schedule

Provides a ESS schedule resource.

### » Example Usage

```
resource "alicloud_ess_scaling_group" "scaling" {
    # Other parameters...
}

resource "alicloud_ess_scaling_configuration" "config" {
    # Other parameters...
}

resource "alicloud_ess_scaling_rule" "rule" {
```

```
# Other parameters...
}

resource "alicloud_ess_schedule" "schedule" {
    scheduled_action = "${alicloud_ess_scaling_rule.rule.ari}"
    launch_time = "2017-04-29T07:30Z"
    scheduled_task_name = "sg-schedule"
}
```

# » Argument Reference

- scheduled\_action (Required) Operations performed when the scheduled task is triggered. Fill in the unique identifier of the scaling rule.
- launch\_time (Required) Operations performed when the scheduled task is triggered. Fill in the unique identifier of the scaling rule.
- scheduled\_task\_name (Optional) Display name of the scheduled task, which must be 2-40 characters (English or Chinese) long.
- description (Optional) Description of the scheduled task, which is 2-200 characters (English or Chinese) long.
- launch\_expiration\_time (Optional) Time period within which the failed scheduled task is retried. The default value is 600s. Value range: [0, 21600]
- recurrence\_type (Optional) Type of the scheduled task to be repeated.
   RecurrenceType, RecurrenceValue and RecurrenceEndTime must be specified. Optional values:
  - Daily: Recurrence interval by day for a scheduled task.
  - Weekly: Recurrence interval by week for a scheduled task.
  - Monthly: Recurrence interval by month for a scheduled task.
- recurrence\_value (Optional) Value of the scheduled task to be repeated.
   RecurrenceType, RecurrenceValue and RecurrenceEndTime must be specified
  - Daily: Only one value in the range [1,31] can be filled.
  - Weekly: Multiple values can be filled. The values of Sunday to Saturday are 0 to 6 in sequence. Multiple values shall be separated by a comma ",".
  - Monthly: In the format of A-B. The value range of A and B is 1 to 31, and the B value must be greater than the A value.
- recurrence\_end\_time (Optional) End time of the scheduled task to be repeated. The date format follows the ISO8601 standard and uses UTC time. It is in the format of YYYY-MM-DDThh:mmZ. A time point 90 days after creation or modification cannot be entered. RecurrenceType, RecurrenceValue and RecurrenceEndTime must be specified.

• task\_enabled - (Optional) Whether to enable the scheduled task. The default value is true.

#### » Attributes Reference

The following attributes are exported:

- id The schedule task ID.
- scheduled\_action The action of schedule task.
- launch\_time The time of schedule task be triggered.
- scheduled task name The name of schedule task.
- description The description of schedule task.
- task\_enabled Wether the task is enabled.

## » Import

ESS schedule task can be imported using the id, e.g.

\$ terraform import alicloud\_ess\_schedule.example abc123456

# » alicloud\_oss\_bucket

Provides a resource to create a oss bucket and set its attribution.

**NOTE:** The bucket namespace is shared by all users of the OSS system. Please set bucket name as unique as possible.

## » Example Usage

```
Private Bucket

resource "alicloud_oss_bucket" "bucket-acl"{
   bucket = "bucket-170309-acl"
   acl = "private"
}

Static Website

resource "alicloud_oss_bucket" "bucket-website" {
   bucket = "bucket-170309-website"

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

```
}
Enable Logging
resource "alicloud_oss_bucket" "bucket-target"{
  bucket = "bucket-170309-acl"
  acl = "public-read"
}
resource "alicloud_oss_bucket" "bucket-logging" {
  bucket = "bucket-170309-logging"
  logging {
    target_bucket = "${alicloud_oss_bucket.bucket-target.id}"
    target_prefix = "log/"
  logging_isenable = true
}
Referer configuration
resource "alicloud_oss_bucket" "bucket-referer" {
  bucket = "bucket-170309-referer"
  acl = "private"
  referer_config {
      allow_empty = false
      referers = ["http://www.aliyun.com", "https://www.aliyun.com"]
  }
}
Set lifecycle rule
resource "alicloud_oss_bucket" "bucket-lifecycle" {
  bucket = "bucket-170309-lifecycle"
  acl = "public-read"
  lifecycle_rule {
    id = "rule-days"
    prefix = "path1/"
    enabled = true
    expiration {
      days = 365
    }
  lifecycle_rule {
```

```
id = "rule-date"
    prefix = "path2/"
    enabled = true

    expiration {
        date = "2018-01-12"
     }
}
```

# » Argument Reference

The following arguments are supported:

- bucket (Optional, Forces New Resorce) The name of the bucket. If omitted, Terraform will assign a random and unique name.
- acl (Optional) The canned ACL to apply. Defaults to "private".
- core\_rule (Optional) A rule of Cross-Origin Resource Sharing (documented below). The items of core rule are no more than 10 for every OSS bucket.
- website (Optional) A website object(documented below).
- logging (Optional) A Settings of bucket logging (documented below).
- logging\_isenable (Optional) The flag of using logging enable container.
   Defaults true.
- referer\_config (Optional) The configuration of referer (documented below).
- lifecycle\_rule (Optional) A configuration of object lifecycle management (documented below).

### » Block core\_rule

The core\_rule mapping 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.

### » Block website

The website mapping supports the following:

- index\_document (Required) Alicloud OSS 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.

#### » Block logging

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.

#### » Block referer configuration

The referer configuration supports the following:

- allow\_empty (Optional, Type: bool) Allows referer to be empty. Defaults true.
- referers (Required, Type: list) The list of referer.

### » Block lifecycle\_rule

The lifecycle\_rule object supports the following:

- id (Optional) Unique identifier for the rule. If omitted, OSS bucket will assign a unique name.
- prefix (Required) Object key prefix identifying one or more objects to which the rule applies.
- enabled (Required, Type: bool) Specifies lifecycle rule status.
- expiration (Optional, Type: set) Specifies a period in the object's expire (documented below).

#### » Block expiration

The lifecycle\_rule expiration object supports the following:

- date (Optional) Specifies the date after which you want the corresponding action to take effect. The value obeys ISO8601 format like 2017-03-09.
- days (Optional, Type: int) Specifies the number of days after object creation when the specific rule action takes effect.

 ${\tt NOTE} :$  One and only one of "date" and "days" can be specified in one expiration configuration.

### » Attributes Reference

The following attributes are exported:

- id The name of the bucket.
- acl The acl of the bucket.
- creation\_date The creation date of the bucket.
- extranet\_endpoint The extranet access endpoint of the bucket.
- intranet endpoint The intranet access endpoint of the bucket.
- location The location of the bucket.
- owner The bucket owner.
- storage\_class The bucket storage type.

# » Import

OSS bucket can be imported using the bucket name, e.g.

\$ terraform import alicloud\_oss\_bucket.bucket bucket-12345678

# » alicloud\_oss\_bucket\_object

Provides a resource to put a object (content or file) to a oss bucket.

# » Example Usage

#### » Uploading a file to a bucket

```
resource "alicloud_oss_bucket_object" "object-source" {
  bucket = "your_bucket_name"
  key = "new_object_key"
  source = "path/to/file"
}
```

### » Uploading a content to a bucket

```
resource "alicloud_oss_bucket" "example" {
  bucket = "your_bucket_name"
  acl = "public-read"
}
resource "alicloud_oss_bucket_object" "object-content" {
  bucket = "${alicloud_oss_bucket.example.bucket}"
```

```
key = "new_object_key"
content = "the content that you want to upload."
}
```

### » 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".
- 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.
- cache\_control (Optional) Specifies caching behavior along the request/reply chain. Read RFC2616 Cache-Control for further details.
- content\_disposition (Optional) Specifies presentational information for the object. Read RFC2616 Content-Disposition for further details.
- 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 RFC2616 Content-Encoding for further details.
- content\_md5 (Optional) The MD5 value of the content. Read MD5 for computing method.
- expires (Optional) Specifies expire date for the the request/response. Read RFC2616 Expires for further details.
- server\_side\_encryption (Optional) Specifies server-side encryption of the object in OSS. At present, it valid value is "AES256".

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

### » Attributes Reference

- id the key of the resource supplied above
- content\_length the content length of request.

• etag - the ETag generated for the object (an MD5 sum of the object content).

# » alicloud container cluster

**NOTE:** This resource name has been replaced by alicloud\_cs\_swarm from version 1.8.2. Please update it.

# » alicloud\_cs\_application

This resource use an orchestration template to define and deploy a multicontainer application. An application is created by using an orchestration template. Each application can contain one or more services.

**NOTE:** Application orchestration template must be a valid Docker Compose YAML template.

**NOTE:** At present, this resource only support swarm cluster.

# » Example Usage

 ${\bf Basic\ Usage}$ 

```
resource "alicloud_cs_application" "app" {
  cluster_name = "my-first-swarm"
  name = "wordpress"
  version = "1.2"
  template = "${file("wordpress.yml")}"
  latest_image = true
  environment = {
    EXTERNAL_URL = "123.123.123.123:8080"
  }
}
```

## » Argument Reference

- cluster\_name (Required, Force new resource) The swarm cluster's name.
- name (Required, Force new resource) The application name. It should be 1-64 characters long, and can contain numbers, English letters and hyphens, but cannot start with hyphens.
- description The description of application.

- version The application deploying version. Each updating, it must be different with current. Default to "1.0"
- template The application deployment template and it must be Docker Compose format.
- environment A key/value map used to replace the variable parameter in the Compose template.
- latest\_image Whether to use latest docker image while each updating application. Default to false.
- blue\_green Wherther to use "Blue Green" method when release a new version. Default to false.
- blue\_green\_confirm Whether to confirm a "Blue Green" application. Default to false. It will be ignored when blue\_green is false.

**NOTE:** Each update of template, environment, latest\_image and blue\_green, it requires a new version. Otherwise, the update will be ignored.

**NOTE:** If you want to rollback a "Blue Green" application, just set blue\_green as false.

#### » Attributes Reference

The following attributes are exported:

- ${\tt id}$  The ID of the container application. It's formate is :
- cluster\_name The name of the container cluster.
- name The application name.
- description The application description.
- template The application deploying template.
- environment The application environment variables.
- services List of services in the application. It contains several attributes to Block Nodes.
- default\_domain The application default domain and it can be used to configure routing service.

#### » Block Nodes

- id ID of the service.
- name Service name.
- status The current status of service.
- version The current version of service.

# » Import

Swarm application can be imported using the id, e.g.

\$ terraform import alicloud\_cs\_application.app my-first-swarm:wordpress

# » alicloud cs swarm

This resource will help you to manager a Swarm Cluster.

**NOTE:** Swarm cluster only supports VPC network and you can specify a VPC network by filed vswitch\_id.

### » Example Usage

```
Basic Usage
```

```
resource "alicloud_cs_swarm" "my_cluster" {
  password = "Test12345"
  instance_type = "ecs.n4.small"
  name = "ClusterFromAlicloud"
  node_number = 2
  disk_category = "cloud_efficiency"
  disk_size = 20
  cidr_block = "172.18.0.0/24"
  image_id = "${var.image_id}"
  vswitch_id = "${var.vswitch_id}"
}
```

### » Argument Reference

- name The container cluster's name. It is the only in one Alicloud account.
- name\_prefix The container cluster name's prefix. It is conflict with name. If it is specified, terraform will using it to build the only cluster name. Default to 'Terraform-Creation'.
- size Field 'size' has been deprecated from provider version 1.9.1. New field 'node\_number' replaces it.
- node\_number The ECS node number of the container cluster. Its value choices are 1~50, and default to 1.
- cidr\_block (Required, Force new resource) The CIDR block for the Container. It can not be same as the CIDR used by the VPC. Valid value:
  - -192.168.0.0/16
  - -172.19-30.0.0/16
  - -10.0.0.0/16

System reserved private network address: 172.16/17/18/31.0.0/16. Maximum number of hosts allowed in the cluster: 256.

- image\_id (Force new resource) The image ID of ECS instance node used. Default to System automate allocated.
- instance\_type (Required, Force new resource) The type of ECS instance node.
- is\_outdated (Optional) Whether to use outdated instance type. Default to false.
- password (Required, Force new resource) The password of ECS instance node.
- disk\_category (Force new resource) The data disk category of ECS instance node. Its valid value are cloud\_ssd and cloud\_efficiency.
   Default to cloud\_efficiency.
- disk\_size (Force new resource) The data disk size of ECS instance node.
   Its valid value is 20~32768 GB. Default to 20.
- vswitch\_id (Required, Force new resource) The password of ECS instance node. If it is not specified, the container cluster's network mode will be Classic.
- release\_eip Whether to release EIP after creating swarm cluster successfully. Default to false.

### » Attributes Reference

- id The ID of the container cluster.
- name The name of the container cluster.
- size It has been deprecated from provider version 1.9.1. New field 'node\_number' replaces it.
- node number The node number.
- vpc\_id The ID of VPC where the current cluster is located.
- vswitch\_id The ID of VSwitch where the current cluster is located.
- slb\_id The ID of load balancer where the current cluster worker node is located.
- security\_group\_id The ID of security group where the current cluster worker node is located.
- agent\_version The nodes agent version.
- instance\_type The instance type of nodes.
- disk\_category The data disk category of nodes.
- disk\_size The data disk size of nodes.
- nodes List of cluster nodes. It contains several attributes to Block Nodes.

#### » Block Nodes

- id ID of the node.
- name Node name.
- private\_ip The private IP address of node.
- eip The Elastic IP address of node.
- status The node current status. It is different with instance status.

# » Import

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

\$ terraform import alicloud\_cs\_swarm.foo cf123456789

# » alicloud cs kubernetes

This resource will help you to manager a Kubernetes Cluster. The cluster is same as container service created by web console.

**NOTE:** Kubernetes cluster only supports VPC network and it can access internet while creating kubernetes cluster. A Nat Gateway and configuring a SNAT for it can ensure one VPC network access internet. If there is no nat gateway in the VPC, you can set new\_nat\_gateway to "true" to create one automatically.

**NOTE:** If there is no specified vswitch\_id, the resource will create a new VPC and VSwitch while creating kubernetes cluster.

**NOTE:** Each kubernetes cluster contains 3 master nodes and those number cannot be changed at now.

**NOTE:** Creating kubernetes cluster need to install several packages and it will cost more than one hour. Please be patient.

**NOTE:** From version 1.9.4, the provider supports to download kube config, client certificate, client key and cluster ca certificate after creating cluster successfully, and you can put them into the specified location, like '~/.kube/config'.

# » Example Usage

```
Basic Usage
data "alicloud_zones" "default" {
    "available_resource_creation"= "VSwitch"
}
resource "alicloud cs kubernetes" "main" {
```

```
name_prefix = "my-first-k8s"
availability_zone = "${data.alicloud_zones.default.zones.0.id}"
new_nat_gateway = true
master_instance_type = "ecs.n4.small"
worker_instance_type = "ecs.n4.small"
worker_number = 3
password = "Test12345"
pod_cidr = "192.168.1.0/24"
service_cidr = "192.168.2.0/24"
enable_ssh = true
install_cloud_monitor = true
}
```

# » Argument Reference

- name The kubernetes cluster's name. It is the only in one Alicloud
- name\_prefix The kubernetes cluster name's prefix. It is conflict with name. If it is specified, terraform will using it to build the only cluster name. Default to "Terraform-Creation".
- availability\_zone (Force new resource) The Zone where new kubernetes cluster will be located. If it is not be specified, the value will be vswitch's zone.
- vswitch\_id (Force new resource) The vswitch where new kubernetes cluster will be located. If it is not specified, a new VPC and VSwicth will be built. It must be in the zone which availability\_zone specified.
- new\_nat\_gateway (Force new resource) Whether to create a new nat gateway while creating kubernetes cluster. Default to true.
- master\_instance\_type (Required, Force new resource) The instance type of master node.
- worker\_instance\_type (Required, Force new resource) The instance type of worker node.
- worker\_number The worker node number of the kubernetes cluster. Default to 3. It is limited up to 50 and if you want to enlarge it, please apply white list or contact with us.
- password (Required, Force new resource) The password of ssh login cluster node.
- pod\_cidr (Required, Force new resource) The CIDR block for the pod network. It will be allocated automatically when vswitch\_id is not specified. It cannot be duplicated with the VPC CIDR and CIDR used by Kubernetes cluster in VPC, cannot be modified after creation. Maximum number of hosts allowed in the cluster: 256. Refer to Plan Kubernetes CIDR blocks under VPC.

- service\_cidr (Required, Force new resource) The CIDR block for the service network. It will be allocated automatically when vswitch\_id is not specified. It cannot be duplicated with the VPC CIDR and CIDR used by Kubernetes cluster in VPC, cannot be modified after creation.
- enable\_ssh (Force new resource) Whether to allow to SSH login kubernetes. Default to false.
- master\_disk\_category (Force new resource) The system disk category of master node. Its valid value are cloud\_ssd and cloud\_efficiency. Default to cloud efficiency.
- master\_disk\_size (Force new resource) The system disk size of master node. Its valid value range [20~32768] in GB. Default to 20.
- worker\_disk\_category (Force new resource) The system disk category
  of worker node. Its valid value are cloud\_ssd and cloud\_efficiency.
   Default to cloud\_efficiency.
- worker\_disk\_size (Force new resource) The system disk size of worker node. Its valid value range [20~32768] in GB. Default to 20.
- install\_cloud\_monitor (Force new resource) Whether to install cloud monitor for the kubernetes' node.
- is\_outdated (Optional) Whether to use outdated instance type. Default to false.
- kube\_config (Optional) The path of kube config, like ~/.kube/config.
- client\_cert (Optional) The path of client certificate, like ~/.kube/client-cert.pem.
- client\_key (Optional) The path of client key, like ~/.kube/client-key.pem.
- cluster\_ca\_cert (Optional) The path of cluster ca certificate, like ~/.kube/cluster-ca-cert.pem

#### » Attributes Reference

- id The ID of the container cluster.
- name The name of the container cluster.
- availability\_zone The ID of availability zone.
- worker\_number The ECS instance node number in the current container cluster.
- vswitch\_id The ID of VSwitch where the current cluster is located.
- vpc\_id The ID of VPC where the current cluster is located.
- slb\_id (Deprecated from version 1.9.2).
- slb\_internet The ID of public load balancer where the current cluster master node is located.
- slb\_intranet The ID of private load balancer where the current cluster master node is located.
- security\_group\_id The ID of security group where the current cluster worker node is located.
- image id The ID of node image.

- nat\_gateway\_id The ID of nat gateway used to launch kubernetes cluster
- master\_instance\_type The instance type of master node.
- worker\_instance\_type The instance type of worker node.
- master\_disk\_category The system disk category of master node.
- master\_disk\_size The system disk size of master node.
- worker\_disk\_category The system disk category of worker node.
- worker\_disk\_size The system disk size of worker node.
- nodes (Deprecated from version 1.9.4) It has been deprecated from provider version 1.9.4. New field master\_nodes and worker\_nodes replace it.
- master\_nodes List of cluster master nodes. It contains several attributes to Block Nodes.
- worker\_nodes List of cluster worker nodes. It contains several attributes to Block Nodes.
- connections Map of kubernetes cluster connection information. It contains several attributes to Block Connections.

#### » Block Nodes

- id ID of the node.
- name Node name.
- private\_ip The private IP address of node.
- role (Deprecated from version 1.9.4)

#### » Block Connections

- api\_server\_internet API Server Internet endpoint.
- api\_server\_intranet API Server Intranet endpoint.
- master\_public\_ip Master node SSH IP address.
- service\_domain Service Access Domain.

### » Import

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

\$ terraform import alicloud\_cs\_kubernetes.main ce4273f9156874b46bb

# » alicloud\_fc\_service

Provides a Alicloud Function Compute Service resource. The resource is the base of launching Function and Trigger configuration. For information about

Service and how to use it, see What is Function Compute.

**NOTE:** The resource requires a provider field 'account\_id'. See account\_id.

**NOTE:** If you happen the error "Argument 'internet Access' is not supported", you need to log on web console and click button "Apply VPC Function" which is in the upper of Function Service Web Console page.

## » Example Usage

```
Basic Usage
variable "region" {
  default = "cn-hangzhou"
}
variable "account" {
  default = "12345"
}

provider "alicloud" {
  account_id = "${var.account}"
  region = "${var.region}"
}

resource "alicloud_fc_service" "foo" {
  name = "my-fc-service"
  description = "created by tf"
  internet_access = false
}
```

### » Argument Reference

- name (ForceNew) The Function Compute service name. It is the only in one Alicloud account and is conflict with "name\_prefix".
- name\_prefix (ForceNew) Setting a prefix to get a only name. It is conflict with "name".
- description (Optional) The function compute service description.
- internet\_access (Optional) Whether to allow the service to access Internet. Default to "true".
- role (Optional) RAM role are attached to the Function Compute service. This governs both who / what can invoke your Function, as well as what resources our Function has access to. See User Permissions for more details.

- log\_config (Optional) Provide this to store your FC service logs. Fields documented below. See Create a Service.
- vpc\_config (Optional) Provide this to allow your FC service to access your VPC. Fields documented below. See Function Compute Service in VPC.

**log\_config** requires the following:

- project (Required) The project name of Logs service.
- logstore (Required) The log store name of Logs service.

**NOTE:** If both project and logstore are empty, log\_config is considered to be empty or unset.

**vpc\_config** requires the following:

- vswitch\_ids (Required) A list of vswitch IDs associated with the FC service.
- security\_group\_id (Required) A security group ID associated with the FC service.

**NOTE:** If both vswitch\_ids and security\_group\_id are empty, vpc\_config is considered to be empty or unset.

### » Attributes Reference

The following arguments are exported:

- id The ID of the FC service. The value is same as name.
- last modified The date this resource was last modified.

#### » Import

Function Compute Service can be imported using the id or name, e.g.

\$ terraform import alicloud\_fc\_service.foo my-fc-service

# » alicloud fc function

Provides a Alicloud Function Compute Function resource. Function allows you to trigger execution of code in response to events in Alibaba Cloud. The Function itself includes source code and runtime configuration. For information about Service and how to use it, see What is Function Compute.

**NOTE:** The resource requires a provider field 'account\_id'. See account\_id.

# » Example Usage

```
Basic Usage
variable "region" {
  default = "cn-hangzhou"
variable "account" {
 default = ""
}
provider "alicloud" {
  account_id = "${var.account}"
 region = "${var.region}"
resource "alicloud_fc_service" "foo" {
    name = "my-fc-service"
    description = "created by tf"
    internet access = false
}
resource "alicloud_fc_function" "foo" {
  service = "${alicloud_fc_service.foo.name}"
 name = "hello-world"
 description = "tf unit test"
 filename = "./hello.zip"
 memory_size = "512"
 runtime = "python2.7"
 handler = "hello.handler"
}
```

### » Argument Reference

- service (Required, ForceNew) The Function Compute service name.
- name (ForceNew) The Function Compute function name. It is the only in one service and is conflict with "name\_prefix".
- name\_prefix (ForceNew) Setting a prefix to get a only function name. It is conflict with "name".
- description (Optional) The Function Compute function description.
- filename (Optional) The path to the function's deployment package within the local filesystem. It is conflict with the oss\_-prefixed options.
- oss\_bucket (Optional) The OSS bucket location containing the function's deployment package. Conflicts with filename. This bucket must

reside in the same Alibaba Cloud region where you are creating the function

- oss\_key (Optional) The OSS key of an object containing the function's deployment package. Conflicts with filename.
- handler (Required) The function entry point in your code.
- memory\_size (Optional) Amount of memory in MB your Function can use at runtime. Defaults to 128. Limits to [128, 3072].
- runtime (Required) See [Runtimes][https://www.alibabacloud.com/help/doc-detail/52077.htm] for valid values.
- timeout (Optional) The amount of time your Function has to run in seconds.

**NOTE:** For more information, see Limits.

## » Attributes Reference

The following arguments are exported:

- id The ID of the function. The value is formate as ":".
- last\_modified The date this resource was last modified.

### » Import

Function Compute function can be imported using the id, e.g.

\$ terraform import alicloud\_fc\_service.foo my-fc-service:hello-world

# » alicloud fc function

Provides a Alicloud Function Compute Trigger resource. Based on trigger, execute your code in response to events in Alibaba Cloud. For information about Service and how to use it, see What is Function Compute.

**NOTE:** The resource requires a provider field 'account\_id'. See account\_id.

#### » Example Usage

```
Basic Usage
variable "region" {
  default = "cn-hangzhou"
}
variable "account" {
  default = "12345"
```

```
}
provider "alicloud" {
  account_id = "${var.account}"
  region = "${var.region}"
}
resource "alicloud_fc_trigger" "foo" {
  service = "my-fc-service"
  function = "hello-world"
  name = "hello-trigger"
  role = "${alicloud_ram_role.foo.arn}"
  source_arn = "acs:log:${var.region}:${var.account}:project/${alicloud_log_project.foo.name
  type = "log"
  config = <<EOF</pre>
        "sourceConfig": {
            "project": "project-for-fc",
            "logstore": "project-for-fc"
        },
        "jobConfig": {
            "maxRetryTime": 3,
            "triggerInterval": 60
        },
        "functionParameter": {
            "a": "b",
            "c": "d"
        },
        "logConfig": {
            "project": "project-for-fc",
            "logstore": "project-for-fc"
        },
        "enable": true
    }
  EOF
  depends_on = ["alicloud_ram_role_policy_attachment.foo"]
}
resource "alicloud_ram_role" "foo" {
  name = "${var.name}-trigger"
  document = <<EOF
    "Statement": [
        "Action": "sts:AssumeRole",
        "Effect": "Allow",
```

### » Argument Reference

The following arguments are supported:

- service (Required, ForceNew) The Function Compute service name.
- function (Required, ForceNew) The Function Compute function name.
- name (ForceNew) The Function Compute trigger name. It is the only in one service and is conflict with "name prefix".
- name\_prefix (ForceNew) Setting a prefix to get a only trigger name. It
  is conflict with "name".
- role (Optional) RAM role arn attached to the Function Compute trigger. Role used by the event source to call the function. The value format is "acs:ram::\$account-id:role/\$role-name". See Create a trigger for more details
- source\_arn (Optional, ForceNew) Event source resource address. See Create a trigger for more details.
- config (Optional) The config of Function Compute trigger. See Configure triggers and events for more details.
- type (Required, ForceNew) The Type of the trigger. Valid values: ["oss", "log", "timer", "http"].

### » Attributes Reference

- id The ID of the function. The value is formate as "::".
- last\_modified The date this resource was last modified.

### » Import

Function Compute trigger can be imported using the id, e.g.

\$ terraform import alicloud\_fc\_service.foo my-fc-service:hello-world:hello-trigger

# » alicloud cms alarm

This resource provides a alarm rule resource and it can be used to monitor several cloud services according different metrics. Details for alarm rule.

# » Example Usage

```
Basic Usage
resource "alicloud_cms_alarm" "basic" {
 name = "tf-testAccCmsAlarm_basic"
 project = "acs_ecs_dashboard"
 metric = "disk_writebytes"
 dimensions = {
    instanceId = "i-bp1247,i-bp11gd"
    device = "/dev/vda1,/dev/vdb1"
 }
 statistics ="Average"
 period = 900
 operator = "<="
 threshold = 35
 triggered_count = 2
  contact_groups = ["test-group"]
 end_time = 20
 start_time = 6
 notify_type = 1
}
```

# » Argument Reference

The following arguments are supported:

• name - (Required) The alarm rule name.

- project (Required, ForceNew) Monitor project name, such as "acs\_ecs\_dashboard" and "acs\_rds\_dashboard". For more information, see Metrics Reference.
- metric (Required, ForceNew) Name of the monitoring metrics corresponding to a project, such as "CPUUtilization" and "networkin\_rate". For more information, see Metrics Reference.
- dimensions (Required, ForceNew) Map of the resources associated with the alarm rule, such as "instanceId", "device" and "port". Each key's value is a string and it uses comma to split multiple items. For more information, see Metrics Reference.
- period Index query cycle, which must be consistent with that defined for metrics. Default to 300, in seconds.
- statistics Statistical method. It must be consistent with that defined for metrics. Valid values: ["Average", "Minimum", "Maximum"]. Default to "Average".
- operator Alarm comparison operator. Valid values: ["<=", "<", ">", ">", ">=", "!="]. Default to "==".
- threshold (Required) Alarm threshold value, which must be a numeric value currently.
- triggered\_count Number of consecutive times it has been detected that the values exceed the threshold. Default to 3.
- contact\_groups (Required) List contact groups of the alarm rule, which must have been created on the console.
- start\_time Start time of the alarm effective period. Default to 0 and it indicates the time 00:00. Valid value range: [0, 24].
- end\_time End time of the alarm effective period. Default value 24 and it indicates the time 24:00. Valid value range: [0, 24].
- silence\_time Notification silence period in the alarm state, in seconds. Valid value range: [300, 86400]. Default to 86400
- notify\_type Notification type. Valid value [0, 1]. The value 0 indicates TradeManager+email, and the value 1 indicates that TradeManager+email+SMS
- enabled Whether to enable alarm rule. Default to true.

### » Attributes Reference

- id The ID of the alarm rule.
- name The alarm name.
- project Monitor project name.
- metric Name of the monitoring metrics.
- dimensions Map of the resources associated with the alarm rule.
- period Index query cycle.
- statistics Statistical method.

- operator Alarm comparison operator.
- threshold Alarm threshold value.
- triggered\_count Number of trigger alarm.
- contact\_groups List contact groups of the alarm rule.
- start\_time Start time of the alarm effective period.
- end\_time End time of the alarm effective period.
- silence\_time Notification silence period in the alarm state.
- notify\_type Notification type.
- enabled Whether to enable alarm rule.
- status The current alarm rule status.

### » Import

Alarm rule can be imported using the id, e.g.

\$ terraform import alicloud\_cms\_alarm.alarm abc12345

# » alicloud dns

Provides a DNS resource.

**NOTE:** The domain name which you want to add must be already registered and had not added by another account. Every domain name can only exist in a unique group.

### » Example Usage

```
# Add a new Domain.
resource "alicloud_dns" "dns" {
  name = "starmove.com"
  group_id = "85ab8713-4a30-4de4-9d20-155ff830f651"
}
```

## » Argument Reference

The following arguments are supported:

• name - (Required) Name of the domain. This name without suffix can have a string of 1 to 63 characters, must contain only alphanumeric characters or "-", and must not begin or end with "-", and "-" must not in the 3th and 4th character positions at the same time. Suffix .sh and .tel are not supported.

• group\_id - (Optional) Id of the group in which the domain will add. If not supplied, then use default group.

## » Attributes Reference

The following attributes are exported:

- id The domain id.
- name The domain name.
- group\_id The group id of domain.
- dns\_server A list of the dns server name.

# » Import

DNS can be imported using the id or domain name, e.g.

```
$ terraform import alicloud_dns.example "aliyun.com"
```

# » alicloud\_dns\_group

Provides a DNS Group resource.

# » Example Usage

```
# Add a new Domain group.
resource "alicloud_dns_group" "group" {
  name = "testgroup"
}
```

# » Argument Reference

The following arguments are supported:

• name - (Required) Name of the domain group.

### » Attributes Reference

- id The group id.
- name The group name.

# » alicloud dns

Provides a DNS Record resource.

### » Example Usage

```
# Create a new Domain record
resource "alicloud_dns_record" "record" {
  name = "domainname"
  host_record = "@"
  type = "A"
  value = "192.168.99.99"
}
```

### » Argument Reference

- name (Required) Name of the domain. This name without suffix can have a string of 1 to 63 characters, must contain only alphanumeric characters or "-", and must not begin or end with "-", and "-" must not in the 3th and 4th character positions at the same time. Suffix .sh and .tel are not supported.
- host\_record (Required) Host record for the domain record. This host\_record can have at most 253 characters, and each part split with "." can have at most 63 characters, and must contain only alphanumeric characters or hyphens, such as "-","","\*","@", and must not begin or end with "-".
- type (Required) The type of domain record. Valid values are A,NS,MX,TXT,CNAME,SRV,AAAA,REDIRECT\_URL and FORWORD\_URL.
- value (Required) The value of domain record.
- ttl-(Optional) The effective time of domain record. Its scope depends on the edition of the cloud resolution. Free is [600, 86400], Basic is [120, 86400], Standard is [60, 86400], Ultimate is [10, 86400], Exclusive is [1, 86400]. Default value is 600.
- priority (Optional) The priority of domain record. Valid values are [1-10]. When the type is MX, this parameter is required.
- routing (Optional) The parsing line of domain record. Valid values are default, telecom, unicom, mobile, oversea and edu. When the type is FORWORD\_URL, this parameter must be default. Default value is default.

The following attributes are exported:

- id The record id.
- name (Required) The record domain name.
- type (Required) The record type.
- host\_record The host record of record.
- value The record value.
- ttl The record effective time.
- priority The record priority.
- routing The record parsing line.
- status The record status. Enable or Disable.
- Locked The record locked state. true or false.

# » Import

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

```
$ terraform import alicloud_dns_record.example abc123456
```

# » alicloud\_log\_project

The project is the resource management unit in Log Service and is used to isolate and control resources. You can manage all the logs and the related log sources of an application by using projects. Refer to details.

### » Example Usage

```
Basic Usage
resource "alicloud_log_project" "example" {
  name = "tf-log"
  description = "created by terraform"
}
```

## » Argument Reference

The following arguments are supported:

• name - (Required, ForceNew) The name of the log project. It is the only in one Alicloud account.

• description - (ForceNew) Description of the log project. At present, it is not modified by terraform.

#### » Attributes Reference

The following attributes are exported:

- id The ID of the log project. It sames as its name.
- name Log project name.
- description Log project description.

## » Import

Log project can be imported using the id or name, e.g.

```
$ terraform import alicloud_log_project.example tf-log
```

# » alicloud\_log\_store

The log store is a unit in Log Service to collect, store, and query the log data. Each log store belongs to a project, and each project can create multiple Log-stores. Refer to details

# » Example Usage

## » Argument Reference

The following arguments are supported:

• project - (Required, ForceNew) The project name to the log store belongs.

- name (Required, ForceNew) The log store, which is unique in the same project.
- retention\_period The data retention time (in days). Valid values: [1-3650]. Default to 30. Log store data will be stored permanently when the value is "3650".
- shard\_count The number of shards in this log store. Default to 2. You can modify it by "Split" or "Merge" operations. Refer to details

The following attributes are exported:

- id The ID of the log project. It formats of ":".
- project The project name.
- name Log store name.
- retention\_period The data retention time.
- shard\_count The number of shards.

### » Import

Log store can be imported using the id, e.g.

\$ terraform import alicloud\_log\_store.example tf-log:tf-log-store

# » alicloud\_log\_store\_index

Log Service provides the LogSearch/Analytics function to query and analyze large amounts of logs in real time. You can use this function by enabling the index and field statistics. Refer to details

```
resource "alicloud_log_store_index" "example" {
  project = "${alicloud_log_project.example.name}"
  logstore = "${alicloud_log_store.example.name}"
  full_text {
    case_sensitive = true
    token = " #$%^*\r\n\t"
  }
  field_search = [
    {
     name = "terraform"
     enable_analytics = true
    }
  ]
}
```

- project (Required, ForceNew) The project name to the log store belongs.
- logstore (Required, ForceNew) The log store name to the query index belongs.
- full\_text The configuration of full text index. Valid item as follows:
  - case\_sensitive Whether the case sensitive. Default to false.
  - include chinese Whether includes the chinese. Default to false.
  - token The string of several split words, like "\r", "#"
- field\_search List configurations of field search index. Valid item as follows:
  - name (Required) The field name, which is unique in the same log store
  - type The type of one field. Valid values: ["long", "text", "double", "json"]. Default to "long".
  - alias The alias of one field
  - case\_sensitive Whether the case sensitive for the field. Default to false. It is valid when "type" is "text" or "json".
  - include\_chinese Whether includes the chinese for the field. Default to false. It is valid when "type" is "text" or "json".
  - token The string of several split words, like "\r", "#". It is valid when "type" is "text" or "json".
  - enable\_analytics Whether to enable field analytics. Default to true.

Note: At least one of the "full\_text" and "field\_search" should be specified.

### » Attributes Reference

The following attributes are exported:

- id The ID of the log store index. It formats of ":".
- project The project name.
- logstore Log store name.
- full\_text The full text index config.
- field\_search The field search index config.

### » Import

Log store index can be imported using the id, e.g.

\$ terraform import alicloud\_log\_store\_index.example tf-log:tf-log-store

# » alicloud\_log\_machine\_group

Log Service manages all the ECS instances whose logs need to be collected by using the Logtail client in the form of machine groups. Refer to details

# » Example Usage

## » Argument Reference

- project (Required, ForceNew) The project name to the machine group belongs.
- name (Required, ForceNew) The machine group name, which is unique in the same project.
- identify\_type The machine identification type, including IP and user-defined identity. Valid values are "ip" and "userdefined". Default to "ip".
- identify\_list- The specific machine identification, which can be an IP address or user-defined identity.
- topic The topic of a machine group.

The following attributes are exported:

- id The ID of the log machine group. It formats of ":".
- project The project name.
- name The machine group name.
- identify\_type The machine identification type.
- identify\_list The machine identification.
- topic The machine group topic.

# » Import

Log machine group can be imported using the id, e.g.

\$ terraform import alicloud\_log\_machine\_group.example tf-log:tf-machine-group

# » alicloud\_ram\_access\_key

Provides a RAM User access key resource.

NOTE: You should set the secret\_file if you want to get the access key.

```
# Create a new RAM access key for user.
resource "alicloud_ram_user" "user" {
  name = "user_test"
  display_name = "user_display_name"
  mobile = "86-18688888888"
  email = "hello.uuu@aaa.com"
  comments = "yoyoyo"
  force = true
```

```
resource "alicloud_ram_access_key" "ak" {
  user_name = "${alicloud_ram_user.user.name}"
  secret_file = "/xxx/xxx/xxx.txt"
}
```

The following arguments are supported:

- user\_name (Required, Forces new resource) Name of the RAM user. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphens, such as "-",""," \_\_", and must not begin with a hyphen.
- secret\_file (Optional, Forces new resource) The name of file that can save access key id and access key secret. Strongly suggest you to specified it when you creating access key, otherwise, you wouldn't get its secret ever.
- status (Optional) Status of access key. It must be Active or Inactive.
   Default value is Active.

### » Attributes Reference

The following attributes are exported:

- id The access key ID.
- status The access key status.

# » alicloud\_ram\_account\_alias

Provides a RAM cloud account alias.

```
# Create a alias for cloud account.
resource "alicloud_ram_account_alias" "alias" {
  account_alias = "hallo"
}
```

The following arguments are supported:

• account\_alias - (Required, Forces new resource) Alias of cloud account. This name can have a string of 3 to 32 characters, must contain only alphanumeric characters or hyphens, such as "-", and must not begin with a hyphen.

#### » Attributes Reference

The following attributes are exported:

• account\_alias - The account alias.

# » alicloud ram alias

**NOTE:** This resource has been deprecated from v1.3.2. New resource alicloud\_ram\_account\_alias will replace.

# » alicloud\_ram\_group

Provides a RAM Group resource.

**NOTE:** When you want to destroy this resource forcefully(means remove all the relationships associated with it automatically and then destroy it) without set force with true at beginning, you need add force = true to configuration file and run terraform plan, then you can delete resource forcefully.

## » Example Usage

```
# Create a new RAM Group.
resource "alicloud_ram_group" "group" {
  name = "test_group"
  comments = "this is a group comments."
  force = true
}
```

## » Argument Reference

- name (Required) Name of the RAM group. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphen "-", and must not begin with a hyphen.
- comments (Optional) Comment of the RAM group. This parameter can have a string of 1 to 128 characters.
- force (Optional) This parameter is used for resource destroy. Default value is false.

The following attributes are exported:

- id The group ID.
- name The group name.
- comments The group comments.

### » Import

RAM group can be imported using the id or name, e.g.

\$ terraform import alicloud\_ram\_group.example my-group

# » alicloud\_ram\_group\_membership

Provides a RAM Group membership resource.

```
# Create a RAM Group membership.
resource "alicloud_ram_group" "group" {
  name = "test_group"
  comments = "this is a group comments."
  force = true
}

resource "alicloud_ram_user" "user" {
  name = "user_test"
  display_name = "user_display_name"
  mobile = "86-18688888888"
  email = "hello.uuu@aaa.com"
  comments = "yoyoyo"
  force = true
```

```
resource "alicloud_ram_user" "user1" {
   name = "user_test1"
   display_name = "user_display_name1"
   mobile = "86-18688888889"
   email = "hello.uuu@aaa.com"
   comments = "yoyoyo"
   force = true
}

resource "alicloud_ram_group_membership" "membership" {
   group_name = "${alicloud_ram_group.group.name}"
   user_names = ["${alicloud_ram_user.user.name}" "${alicloud_ram_user.user1.name}"]
}
```

The following arguments are supported:

- group\_name (Required, Forces new resource) Name of the RAM group. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphen "-", and must not begin with a hyphen.
- user\_names (Required) Set of user name which will be added to group. Each name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphens, such as "-","","\_", and must not begin with a hyphen.

# » Attributes Reference

The following attributes are exported:

- id The membership ID.
- group\_name The group name.
- user names The list of names of users which in the group.

# » alicloud ram group policy attachment

Provides a RAM Group Policy attachment resource.

## » Example Usage

# Create a RAM Group Policy attachment.

```
resource "alicloud_ram_group" "group" {
 name = "test_group"
  comments = "this is a group comments."
  force = true
}
resource "alicloud_ram_policy" "policy" {
 name = "test_policy"
  statement = [
      {
        effect = "Allow"
        action = [
          "oss:ListObjects",
          "oss:GetObject"]
        resource = [
          "acs:oss:*:*:mybucket",
          "acs:oss:*:*:mybucket/*"]
      }]
  description = "this is a policy test"
  force = true
}
resource "alicloud_ram_group_policy_attachment" "attach" {
 policy_name = "${alicloud_ram_policy.policy.name}"
 policy_type = "${alicloud_ram_policy.policy.type}"
 group_name = "${alicloud_ram_group.group.name}"
}
```

The following arguments are supported:

- group\_name (Required, Forces new resource) Name of the RAM group. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphen "-", and must not begin with a hyphen.
- policy\_name (Required, Forces new resource) Name of the RAM policy. This name can have a string of 1 to 128 characters, must contain only alphanumeric characters or hyphen "-", and must not begin with a hyphen.
- policy\_type (Required, Forces new resource) Type of the RAM policy. It must be Custom or System.

#### » Attributes Reference

The following attributes are exported:

- id The attachment ID.
- group\_name The group name.
- policy\_name The policy name.
- policy\_type The policy type.

# » alicloud\_ram\_login\_profile

Provides a RAM User Login Profile resource.

# » Example Usage

```
# Create a RAM login profile.
resource "alicloud_ram_user" "user" {
   name = "user_test"
   display_name = "user_display_name"
   mobile = "86-18688888888"
   email = "hello.uuu@aaa.com"
   comments = "yoyoyo"
   force = true
}
resource "alicloud_ram_login_profile" "profile" {
   user_name = "${alicloud_ram_user.user.name}"
   password = "Haha..1234"
}
```

# » Argument Reference

- user\_name (Required, Forces new resource) Name of the RAM user. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphens, such as "-","","\_", and must not begin with a hyphen.
- password (Required) Password of the RAM user.
- mfa\_bind\_required (Optional) This parameter indicates whether the MFA needs to be bind when the user first logs in. Default value is false.
- password\_reset\_required (Optional) This parameter indicates whether the password needs to be reset when the user first logs in. Default value is false.

The following attributes are exported:

- id The login profile ID.
- user\_name The user name.
- mfa\_bind\_required The parameter which indicates whether the MFA needs to be bind when the user first logs in.
- password\_reset\_required The parameter which indicates whether the password needs to be reset when the user first logs in.

## » Import

RAM login profile can be imported using the id or user name, e.g.

\$ terraform import alicloud\_ram\_login\_profile.example my-login

# » alicloud\_ram\_policy

Provides a RAM Policy resource.

**NOTE:** When you want to destroy this resource forcefully(means remove all the relationships associated with it automatically and then destroy it) without set force with true at beginning, you need add force = true to configuration file and run terraform plan, then you can delete resource forcefully.

```
description = "this is a policy test"
force = true
}
```

The following arguments are supported:

- name (Required, Forces new resource) Name of the RAM policy. This name can have a string of 1 to 128 characters, must contain only alphanumeric characters or hyphen "-", and must not begin with a hyphen.
- statement (Optional, Type: list, Conflicts with document) Statements of the RAM policy document. It is required when the document is not specified.
  - resource (Required, Type: list) List of specific objects which
    will be authorized. The format of each item in this list is
    acs:\${service}:\${region}:\${account\_id}:\${relative\_id},
    such as acs:ecs:\*:\*:instance/inst-002 and acs:oss:\*:1234567890000:mybucket.
    The \${service} can be ecs, oss, ots and so on, the \${region} is
    the region info which can use \* replace when it is not supplied, the
    \${account\_id} refers to someone's Alicloud account id or you can
    use \* to replace, the \${relative\_id} is the resource description
    section which related to the \${service}.
  - action (Required, Type: list) List of operations for the resource. The format of each item in this list is \${service}:\${action\_name}, such as oss:ListBuckets and ecs:Describe\*. The \${service} can be ecs, oss, ots and so on, the \${action\_name} refers to the name of an api interface which related to the \${service}.
  - effect (Required) This parameter indicates whether or not the action is allowed. Valid values are Allow and Deny.
- version (Optional, Conflicts with document) Version of the RAM policy document. Valid value is 1. Default value is 1.
- document (Optional, Conflicts with statement and version) Document of the RAM policy. It is required when the statement is not specified.
- description (Optional, Forces new resource) Description of the RAM policy. This name can have a string of 1 to 1024 characters.
- force (Optional) This parameter is used for resource destroy. Default value is false.

# » Attributes Reference

The following attributes are exported:

- id The policy ID.
- name The policy name.

- type The policy type.
- description The policy description.
- statement List of statement of the policy document.
- document The policy document.
- version The policy document version.
- attachment\_count The policy attachment count.

# » Import

RAM policy can be imported using the id or name, e.g.

\$ terraform import alicloud\_ram\_policy.example my-policy

# » alicloud ram role

Provides a RAM Role resource.

**NOTE:** When you want to destroy this resource forcefully(means remove all the relationships associated with it automatically and then destroy it) without set force with true at beginning, you need add force = true to configuration file and run terraform plan, then you can delete resource forcefully.

### » Example Usage

```
# Create a new RAM Role.
resource "alicloud_ram_role" "role" {
   name = "test_role"
   ram_users = ["acs:ram::${your_account_id}:root", "acs:ram::${other_account_id}:user/userns
   services = ["apigateway.aliyuncs.com", "ecs.aliyuncs.com"]
   description = "this is a role test."
   force = true
}
```

### » Argument Reference

- name (Required, Forces new resource) Name of the RAM role. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphens, such as "-", "\_", and must not begin with a hyphen.
- services (Optional, Type: list, Conflicts with document) List of services which can assume the RAM role. The format of each item in this list is \${service}.aliyuncs.com or \${account\_id}@\${service}.aliyuncs.com,

- such as ecs.aliyuncs.com and 1234567890000@ots.aliyuncs.com. The \${service} can be ecs, log, apigateway and so on, the \${account\_id} refers to someone's Alicloud account id.
- ram\_users (Optional, Type: list, Conflicts with document) List of ram users who can assume the RAM role. The format of each item in this list is acs:ram::\${account\_id}:root or acs:ram::\${account\_id}:user/\${user\_name}, such as acs:ram::1234567890000:root and acs:ram::1234567890001:user/Mary. The \${user\_name} is the name of a RAM user which must exists in the Alicloud account indicated by the \${account\_id}.
- version (Optional, Conflicts with document) Version of the RAM role policy document. Valid value is 1. Default value is 1.
- document (Optional, Conflicts with services, ram\_users and version) Authorization strategy of the RAM role. It is required when the services and ram\_users are not specified.
- description (Optional, Forces new resource) Description of the RAM role. This name can have a string of 1 to 1024 characters.
- force (Optional) This parameter is used for resource destroy. Default value is false.

The following attributes are exported:

- id The role ID.
- name The role name.
- arn The role arn.
- description The role description.
- $\bullet\,$  version The role policy document version.
- document Authorization strategy of the role.
- ram users List of services which can assume the RAM role.
- services List of services which can assume the RAM role.

### » Import

RAM role can be imported using the id or name, e.g.

\$ terraform import alicloud\_ram\_role.example my-role

# » alicloud\_ram\_role\_policy\_attachment

Provides a RAM Role attachment resource.

# » Example Usage

```
# Create a RAM Role Policy attachment.
resource "alicloud_ram_role" "role" {
 name = "test_role"
 ram_users = ["acs:ram::${your_account_id}:root", "acs:ram::${other_account_id}:user/usernam:
  services = ["apigateway.aliyuncs.com", "ecs.aliyuncs.com"]
  description = "this is a role test."
  force = true
}
resource "alicloud_ram_policy" "policy" {
  name = "test_policy"
  statement = [
            effect = "Allow"
            action = [
              "oss:ListObjects",
              "oss:GetObject"]
            resource = [
              "acs:oss:*:*:mybucket",
              "acs:oss:*:*:mybucket/*"]
 description = "this is a policy test"
  force = true
}
resource "alicloud_ram_role_policy_attachment" "attach" {
 policy_name = "${alicloud_ram_policy.policy.name}"
 policy_type = "${alicloud_ram_policy.policy.type}"
 role_name = "${alicloud_ram_role.role.name}"
}
```

## » Argument Reference

- role\_name (Required, Forces new resource) Name of the RAM Role. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphens, such as "-", "\_", and must not begin with a hyphen.
- policy\_name (Required, Forces new resource) Name of the RAM policy. This name can have a string of 1 to 128 characters, must contain only alphanumeric characters or hyphen "-", and must not begin with a hyphen.

• policy\_type - (Required, Forces new resource) Type of the RAM policy. It must be Custom or System.

#### » Attributes Reference

The following attributes are exported:

- id The attachment ID.
- role\_name The role name.
- policy\_name The policy name.
- policy\_type The policy type.

# » alicloud ram user

Provides a RAM User resource.

**NOTE:** When you want to destroy this resource forcefully(means release all the relationships associated with it automatically and then destroy it) without set force with true at beginning, you need add force = true to configuration file and run terraform plan, then you can delete resource forcefully.

# » Example Usage

```
# Create a new RAM user.
resource "alicloud_ram_user" "user" {
  name = "user_test"
  display_name = "user_display_name"
  mobile = "86-18688888888"
  email = "hello.uuu@aaa.com"
  comments = "yoyoyo"
  force = true
}
```

## » Argument Reference

- name (Required) Name of the RAM user. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphens, such as "-","","\_", and must not begin with a hyphen.
- display\_name (Optional) Name of the RAM user which for display. This name can have a string of 1 to 12 characters or Chinese characters, must

- contain only alphanumeric characters or Chinese characters or hyphens, such as "-","", and must not end with a hyphen.
- mobile (Optional) Phone number of the RAM user. This number must contain an international area code prefix, just look like this: 86-18600008888.
- email (Optional) Email of the RAM user.
- comments (Optional) Comment of the RAM user. This parameter can have a string of 1 to 128 characters.
- force (Optional) This parameter is used for resource destroy. Default value is false.

The following attributes are exported:

- id The user ID.
- name The user name.
- display\_name The user display name.
- mobile The user phone number.
- email The user email.
- comments The user comments.

### » Import

RAM user can be imported using the id or name, e.g.

\$ terraform import alicloud\_ram\_user.example user

# » alicloud\_ram\_user\_policy\_attachment

Provides a RAM User Policy attachment resource.

```
# Create a RAM User Policy attachment.
resource "alicloud_ram_user" "user" {
  name = "user_test"
  display_name = "user_display_name"
  mobile = "86-18688888888"
  email = "hello.uuu@aaa.com"
  comments = "yoyoyo"
  force = true
```

```
}
resource "alicloud_ram_policy" "policy" {
 name = "test_policy"
  statement = [
            effect = "Allow"
            action = [
              "oss:ListObjects",
              "oss:GetObject"]
            resource = [
              "acs:oss:*:*:mybucket",
              "acs:oss:*:*:mybucket/*"]
          }]
 description = "this is a policy test"
  force = true
}
resource "alicloud_ram_user_policy_attachment" "attach" {
  policy_name = "${alicloud_ram_policy.policy.name}"
 policy_type = "${alicloud_ram_policy.policy.type}"
  user_name = "${alicloud_ram_user.user.name}"
}
```

The following arguments are supported:

- user\_name (Required, Forces new resource) Name of the RAM user. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphens, such as "-","","\_", and must not begin with a hyphen.
- policy\_name (Required, Forces new resource) Name of the RAM policy. This name can have a string of 1 to 128 characters, must contain only alphanumeric characters or hyphen "-", and must not begin with a hyphen.
- policy\_type (Required, Forces new resource) Type of the RAM policy. It must be Custom or System.

### » Attributes Reference

The following attributes are exported:

- id The attachment ID.
- user\_name The user name.
- policy\_name The policy name.

• policy\_type - The policy type.

# » alicloud\_ram\_role\_attachment

Provides a RAM role attachment resource to bind role for several ECS instances.

### » Example Usage

```
resource "alicloud_ram_role" "role" {
 name = "test_role"
 services = ["apigateway.aliyuncs.com", "ecs.aliyuncs.com"]
 ram_users = ["acs:ram::${your_account_id}:root", "acs:ram::${other_account_id}:user/usernamers...
 description = "this is a role test."
  force = true
}
resource "alicloud_instance" "instance" {
  instance name = "test-keypair-${format(var.count format, count.index+1)}"
  image_id = "ubuntu_140405_64_40G_cloudinit_20161115.vhd"
  instance_type = "ecs.n4.small"
  count = 2
  availability_zone = "${var.availability_zones}"
}
resource "alicloud_ram_role_attachment" "attach" {
 role_name = "${alicloud_ram_role.role.name}"
  instance_ids = ["${alicloud_instance.instance.*.id}"]
}
```

### » Argument Reference

- role\_name (Required, Forces new resource) The name of role used to bind. This name can have a string of 1 to 64 characters, must contain only alphanumeric characters or hyphens, such as "-", "\_", and must not begin with a hyphen.
- instance\_ids (Required, Forces new resource) The list of ECS instance's IDs.

The following attributes are exported:

- role name The name of the role.
- instance\_ids The list of ECS instance's IDs.

# » alicloud cdn domain

Provides a CDN Accelerated Domain resource.

```
# Add a CDN Accelerated Domain with configs.
resource "alicloud_cdn_domain" "domain" {
  domain_name = "${your_cdn_domain_name}"
  cdn_type = "web"
  source_type = "domain"
  sources = ["${your_cdn_domain_source1}", "${your_cdn_domain_source2}"]
  // configs
 optimize_enable = "off"
 page_compress_enable = "off"
 range_enable = "off"
 video_seek_enable = "off"
 block_ips = ["1.2.3.4", "111.222.111.111"]
 parameter_filter_config = [
      enable = "on"
      hash_key_args = ["hello", "youyouyou"]
    }]
 page_404_config = [
      page_type = "other"
      custom_page_url = "http://${your_cdn_domain_name}/notfound/"
 refer_config = [
    {
     refer_type = "block"
     refer_list = ["www.xxxx.com", "www.xxxx.cn"]
      allow_empty = "off"
    }]
  auth_config = [
    {
```

```
auth_type = "type_a"
      master_key = "helloworld1"
      slave_key = "helloworld2"
    }]
 http_header_config = [
    {
      header_key = "Content-Type",
      header_value = "text/plain"
    },
    {
      header_key = "Access-Control-Allow-Origin",
      header_value = "*"
    }]
  cache_config = [
    {
      cache_content = "/hello/world",
      ttl = 1000
      cache_type = "path"
    },
      cache_content = "/hello/world/youyou",
      ttl = 1000
      cache_type = "path"
    },
      cache_content = "txt,jpg,png",
      tt1 = 2000
      cache_type = "suffix"
    }]
}
```

- domain\_name (Required) Name of the accelerated domain. This name without suffix can have a string of 1 to 63 characters, must contain only alphanumeric characters or "-", and must not begin or end with "-", and "-" must not in the 3th and 4th character positions at the same time. Suffix .sh and .tel are not supported.
- cdn\_type (Required) Cdn type of the accelerated domain. Valid values are web, download, video, liveStream.
- source\_type (Optional) Source type of the accelerated domain. Valid values are ipaddr, domain, oss. You must set this parameter when cdn\_type value is not liveStream.

- source\_port (Optional) Source port of the accelerated domain. Valid values are 80 and 443. Default value is 80. You must use 80 when the source\_type is oss.
- sources (Optional, Type: list) Sources of the accelerated domain. It's a list of domain names or IP address and consists of at most 20 items. You must set this parameter when cdn\_type value is not liveStream.
- scope (Optional) Scope of the accelerated domain. Valid values are domestic, overseas, global. Default value is domestic. This parameter's setting is valid Only for the international users and domestic L3 and above users.

#### » Domain config

The config supports the following:

- optimize\_enable (Optional) Page Optimize config of the accelerated domain. Valid values are on and off. Default value is off. It can effectively remove the page redundant content, reduce the file size and improve the speed of distribution when this parameter value is on.
- page\_compress\_enable (Optional) Page Compress config of the accelerated domain. Valid values are on and off. Default value is off.
- range\_enable (Optional) Range Source config of the accelerated domain. Valid values are on and off. Default value is off.
- video\_seek\_enable (Optional) Video Seek config of the accelerated domain. Valid values are on and off. Default value is off.
- parameter\_filter\_config (Optional, Type: set) Parameter filter config of the accelerated domain. It's a set and consists of at most one item.
  - enable (Optional) This parameter indicates whether or not the parameter\_filter\_config is enable. Valid values are on and off. Default value is off.
  - hash\_key\_args (Optional, Type: list) Reserved parameters of parameter\_filter\_config. It's a list of string and consists of at most 10 items.
- page\_404\_config (Optional, Type: set) Error Page config of the accelerated domain. It's a set and consists of at most one item.
  - page\_type (Optional) Page type of the error page. Valid values are default, charity, other. Default value is default.
  - custom\_page\_url (Optional) Custom page url of the error page. It must be the full path under the accelerated domain name. It's value must be http://promotion.alicdn.com/help/oss/error.html

- when page\_type value is charity and It can not be set when page\_type value is default.
- refer\_config (Optional, Type: set) Refer anti-theft chain config of the accelerated domain. It's a set and consists of at most 1 item.
  - refer\_type (Optional) Refer type of the refer config. Valid values are block and allow. Default value is block.
  - refer\_list (Required, Type: list) A list of domain names of the refer config.
  - allow\_empty (Optional) This parameter indicates whether or not to allow empty refer access. Valid values are on and off. Default value is on.
- auth\_config (Optional, Type: set) Auth config of the accelerated domain. It's a set and consist of at most 1 item.
  - auth\_type (Optional) Auth type of the auth config. Valid values are no\_auth, type\_a, type\_b and type\_c. Default value is no\_auth.
  - master\_key (Optional) Master authentication key of the auth config. This parameter can have a string of 6 to 32 characters and must contain only alphanumeric characters.
  - slave\_key (Optional) Slave authentication key of the auth config.
     This parameter can have a string of 6 to 32 characters and must contain only alphanumeric characters.
  - timeout (Optional, Type: int) Authentication cache time of the auth config. Default value is 1800. It's value is valid only when the auth type is type b or type c.
- http\_header\_config (Optional, Type: set) Http header config of the accelerated domain. It's a set and consist of at most 8 items. The header\_key for each item can not be repeated.
  - header\_key (Required) Header key of the http header. Valid values are Content-Type, Cache-Control, Content-Disposition, Content-Language Expires, Access-Control-Allow-Origin, Access-Control-Allow-Methods and Access-Control-Max-Age.
  - header\_value (Required) Header value of the http header.
- cache\_config (Optional, Type: set) Cache config of the accelerated domain. It's a set and each item's cache\_content can not be repeated.
  - cache\_type (Required) Cache type of the cache config. Valid values are suffix and path.
  - cache\_content (Required) Cache content of the cache config. It's value is a path string when the cache\_type is path. When the cache\_type is suffix, it's value is a string which contains multiple file suffixes separated by commas.
  - ttl (Required, Type: int) Cache time of the cache config.

weight - (Optional, Type: int) Weight of the cache config. This parameter's value is between 1 and 99. Default value is 1. The higher the value, the higher the priority

### » Attributes Reference

The following attributes are exported:

- domain\_name The accelerated domain name.
- sources The accelerated domain sources.
- cdn\_type The cdn type of the accelerated domain.
- source\_type The source type of the accelerated domain.
- scope The accelerated domain scope.
- optimize\_enable The page optimize config of the accelerated domain.
- page\_compress\_enable The page compress config of the accelerated domain
- range\_enable The range source config of the accelerated domain.
- video\_seek\_enable The video seek config of the accelerated domain.
- parameter\_filter\_config The parameter filter config of the accelerated domain.
- page\_404\_config The error page config of the accelerated domain.
- $\bullet\,$   ${\tt refer\_config}$  The refer config of the accelerated domain.
- auth\_config The auth config of the accelerated domain.
- http\_header\_config The http header configs of the accelerated domain.
- cache\_config The cache configs of the accelerated domain.

# » alicloud\_kms\_key

A kms key can help user to protect data security in the transmission process.

# » Example Usage

Basic Usage

```
resource "alicloud_kms_key" "key" {
  description = "Hello KMS"
  deletion_window_in_days = "7"
  is_enabled = true
}
```

The following arguments are supported:

- description (Optional) The description of the key as viewed in Alicloud console. Default to "From Terraform".
- key\_usage (Optional) Specifies the usage of CMK. Currently, default to 'ENCRYPT/DECRYPT', indicating that CMK is used for encryption and decryption.
- deletion\_window\_in\_days (Optional) Duration in days after which the key is deleted after destruction of the resource, must be between 7 and 30 days. Defaults to 30 days.
- is\_enabled (Optional) Specifies whether the key is enabled. Defaults to true.

NOTE: At present, the resource only supports to modify is\_enabled.

**NOTE:** When the pre-deletion days elapses, the key is permanently deleted and cannot be recovered.

#### » Attributes Reference

- id The ID of the key.
- arn The Alicloud Resource Name (ARN) of the key.
- description The description of the key.
- key\_usage Specifies the usage of CMK.
- deletion\_window\_in\_days During pre-deletion days.
- is\_enabled Whether the key is enabled.

### » Import

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

\$ terraform import alicloud\_kms\_key.example abc123456

# » alicloud\_ots\_instance

This resource will help you to manager a Table Store Instance. It is foundation of creating data table.

# » Example Usage

```
# Create an OTS instance
resource "alicloud_ots_instance" "foo" {
  name = "my-ots-instance"
  description = "for table"
  accessed_by = "Vpc"
  tags {
    Created = "TF"
    For = "Building table"
  }
}
```

## » Argument Reference

The following arguments are supported:

- name (Required, ForceNew) The name of the instance.
- accessed\_by The network limitation of accessing instance. Valid values:
  - Any Allow all network to access the instance.
  - Vpc Only can the attached VPC allow to access the instance.
  - ConsoleOrVpc Allow web console or the attached VPC to access the instance.

Default to "Any".

- instance\_type (ForceNew) The type of instance. Valid values are "Capacity" and "HighPerformance". Default to "HighPerformance".
- description (Required, ForceNew) The description of the instance.
- tags A mapping of tags to assign to the instance.

#### » Attributes Reference

The following attributes are exported:

- id The resource ID. The value is same as the "name".
- name The instance name.
- description The instance description.

- accessed\_by TThe network limitation of accessing instance.
- instance\_type The instance type.
- tags The instance tags.

## » Import

OTS instance can be imported using instance id or name, e.g.

\$ terraform import alicloud\_ots\_instance.foo "my-ots-instance"

# » alicloud ots instance attachment

This resource will help you to bind a VPC to an OTS instance.

```
# Create an OTS instance
resource "alicloud_ots_instance" "foo" {
 name = "my-ots-instance"
 description = "for table"
  accessed_by = "Vpc"
  tags {
   Created = "TF"
    For = "Building table"
 }
}
data "alicloud zones" "foo" {
  available_resource_creation = "VSwitch"
resource "alicloud_vpc" "foo" {
 cidr block = "172.16.0.0/16"
 name = "for-ots-instance"
resource "alicloud_vswitch" "foo" {
  vpc_id = "${alicloud_vpc.foo.id}"
 name = "for-ots-instance"
  cidr_block = "172.16.1.0/24"
  availability_zone = "${data.alicloud_zones.foo.zones.0.id}"
}
resource "alicloud_ots_instance_attachment" "foo" {
  instance_name = "${alicloud_ots_instance.foo.name}"
```

```
vpc_name = "attachment1"
 vswitch_id = "${alicloud_vswitch.foo.id}"
}
```

The following arguments are supported:

- instance\_name (Required, ForceNew) The name of the OTS instance.
- vpc\_name (Required, ForceNew) The name of attaching VPC to instance.
- vswitch\_id (Required, ForceNew) The ID of attaching VSwitch to instance.

#### » Attributes Reference

The following attributes are exported:

- id The resource ID. The value is same as "instance" name".
- instance\_name The instance name.
- vpc\_name The name of attaching VPC to instance.
- vswitch\_id The ID of attaching VSwitch to instance.
- vpc\_id The ID of attaching VPC to instance.

# » alicloud ots table

Provides an OTS table resource.

**NOTE:** From Provider version 1.10.0, the provider field 'ots\_instance\_name' has been deprecated and you should use resource alicloud\_ots\_table's new field 'instance\_name' and 'table\_name' to re-import this resource.

```
# Create an OTS table

resource "alicloud_ots_instance" "foo" {
  name = "my-ots"
  description = "ots instance"
  accessed_by = "Any"
  tags {
    Created = "TF"
    For = "acceptance test"
}
```

```
}
resource "alicloud_ots_table" "table" {
  instance_name = "${alicloud_ots_instance.foo.name}"
  table_name = "ots-table"
 primary_key = [
    {
      name = "${var.primary_key_1_name}"
      type = "${var.primary_key_integer_type}"
    },
    {
      name = "${var.primary_key_2_name}"
      type = "${var.primary_key_integer_type}"
   },
    {
      name = "${var.primary key 3 name}"
      type = "${var.primary_key_integer_type}"
    },
    {
      name = "${var.primary key 4 name}"
      type = "${var.primary_key_string_type}"
    },
 ]
  time_to_live = "${var.time_to_live}"
 max_version = "${var.max_version}"
```

- instance\_name (Required, ForceNew) The name of the OTS instance in which table will located.
- table\_name (Required, ForceNew) The table name of the OTS instance. If changed, a new table would be created.
- primary\_key (Required, Type: List) The property of TableMeta which indicates the structure information of a table. It describes the attribute value of primary key. The number of primary\_key should not be less than one and not be more than four.
  - name (Required) Name for primary key.
  - type (Required, Type: list) Type for primary key. Only Integer, String or Binary is allowed.
- time\_to\_live (Required) The retention time of data stored in this table (unit: second). The value maximum is 2147483647 and -1 means never expired.

• max\_version - (Required) The maximum number of versions stored in this table. The valid value is 1-2147483647.

## » Attributes Reference

The following attributes are exported:

- id The resource ID. The value is ":".
- instance\_name The OTS instance name.
- table\_name The table name of the OTS which could not be changed.
- primary\_key The property of TableMeta which indicates the structure information of a table.
- time\_to\_live The retention time of data stored in this table.
- max\_version The maximum number of versions stored in this table.

## » Import

OTS table can be imported using id, e.g.

\$ terraform import alicloud\_ots\_table.table "my-ots:ots\_table"