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ksyun_instance

This data source provides a list of instance resources based on the availability zone and instance ID.

Example Usage

```
# Get instances
data "ksyun_instances" "default" {
  output_file = "output_result"
  ids = []
  project_id = []
  network_interface {
    network_interface_id = []
    subnet_id = []
    group_id = []
  }
  instance_state {
    name = []
  }
  availability_zone {
    name = []
  }
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of instance IDs.
- `name_regex` - (Optional) A regex string to filter results by instance name.
- `output_file` - (Optional) The name of the file to store data source results output by executing terraform plan.

Attributes Reference

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

- `instances` - Instances documented below.

This attribute (`instances`) supports the following:

- `instance_id` - The ID of the instance.
- `instance_state` - The state of the instance.
- `subnet_id` - The ID of the subnet linked to the instance.
- `image_id` - The ID of the image to be uses by the instance.
- `instance_type` - The type of the instance.
- `security_group_id` - The ID of the associated security group.
- `instance_name` - The name of the instance.
- `project_id` - The ID of the project to which the instance is assigned.
- `user_data` - The user data to be specified into this instance.
- `creation_date` - Time of creation.
- `charge_type` - Instance charge type.
- `availability_zone_name` - The name of the availability zone where the instance is located.
- `private_ip_address` - Instance private IP address.
- `disk_size` - The size of the system disk.
- `disk_type` - The type of the system disk.

ksyun_zones

This data source provides a list of available zones in the current region.

Example Usage

```
data "ksyun_availability_zones" "default" {
  output_file=""
  ids=[]
}
```

Argument Reference

The following arguments are supported:

- `output_file` - (Optional) Name of the file to store data source results output by executing terraform plan.

Attributes Reference

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

- `availability_zone_name` - Name of the availability zone.

ksyun_images

This data source provides a list of available image resources based on the availability zone, image ID, and other fields.

Example Usage

```
# Get ksyun_images
data "ksyun_images" "default" {
  output_file="output_result"
  is_public=true
  image_source="system"
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of image IDs.
- `name_regex` - (Optional) A regex string to filter resulting images by name. For example, `^CentOS 7.[1-2] 64` means CentOS 7.1 of 64-bit operating system or CentOS 7.2 of 64-bit operating system; `^Ubuntu 16.04 64` means Ubuntu 16.04 of 64-bit operating system).
- `output_file` - (Optional) Name of the file to store data source results output by executing terraform plan.
- `most_recent` - (Optional) Boolean type. If more than one result is returned, select the most recent one.

Attributes Reference

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

- `creation_date` - Time of creation.
- `image_id` - The ID of the image.
- `image_source` - Source of the image. Valid values are `import`, `copy`, `share`, `extend`, and `system`.
- `image_state` - Status of the image.
- `is_public` - Whether or not the image is provided by Ksyun.
- `name` - Display name of the image.
- `platform` - Platform type of the image system.
- `progress` - Progress of image creation.
- `sys_disk` - Size of the created disk.

ksyun_instance

Provides a KEC instance resource.

Note: Monthly instances cannot be deleted and will be released automatically after expiration.

Example Usage

```
data "ksyun_availability_zones" "default" {
  output_file=""
  ids=[]
}

data "ksyun_lines" "default" {
  output_file=""
}
```

```
    line_name="BGP"
  }

resource "ksyun_vpc" "default" {
  vpc_name     = "${var.vpc_name}"
  cidr_block   = "${var.vpc_cidr}"
}

resource "ksyun_subnet" "default" {
  subnet_name     = "${var.subnet_name}"
  cidr_block      = "10.1.0.0/21"
  subnet_type     = "Normal"
  dhcp_ip_from   = "10.1.0.2"
  dhcp_ip_to     = "10.1.0.253"
  vpc_id         = "${ksyun_vpc.default.id}"
  gateway_ip     = "10.1.0.1"
  dns1           = "198.18.254.41"
  dns2           = "198.18.254.40"
  availability_zone = "${data.ksyun_availability_zones.default.availability_zones.0.availability_zone_name}"
}

resource "ksyun_security_group" "default" {
  vpc_id       = "${ksyun_vpc.default.id}"
  security_group_name="${var.security_group_name}"
}

resource "ksyun_security_group_entry" "default" {
  description = "test1"
  security_group_id="${ksyun_security_group.default.id}"
  cidr_block="10.0.1.1/32"
  direction="in"
  protocol="ip"
  icmp_type=0
  icmp_code=0
  port_range_from=0
  port_range_to=0
}

resource "ksyun_ssh_key" "default" {
  key_name="ssh_key_tf"
  public_key=""
}

resource "ksyun_instance" "default" {
  image_id="${data.ksyun_images.centos-7_5.images.0.image_id}"
  instance_type="N3.2B"
  system_disk {
    disk_type="SSD3.0"
    disk_size=30
  }
  data_disk_gb=0
  data_disk = [
    {
      type="SSD3.0"
      size=20
      delete_with_instance=true
    }
  ]
  subnet_id="${ksyun_subnet.default.id}"
  instance_password="Xuan663222"
  keep_image_login=false
  charge_type="Daily"
  purchase_time=1
  security_group_id=["${ksyun_security_group.default.id}"]
  private_ip_address=""
  instance_name="xuan-tf-combine"
  instance_name_suffix=""
  sriov_net_support=false
  project_id=0
  data_guard_id=""
  key_id=["${ksyun_ssh_key.default.id}"]
  force_delete=true
}
```

Argument Reference

The following arguments are supported:

- `image_id` - (Required) The ID of the image to use for the instance.
- `instance_type` - (Required) The type of the instance.

- `system_disk` - (Required) System disk parameters.
 - `disk_type` - System disk type. Valid values are `Local_SSD`(local SSD disk), `SSD3.0` (SSD cloud disk), and `EHDD`(EHDD cloud disk).
 - `disk_size` - The size of the data disk, in GB.
- `data_disk_gb` - (Optional) Local SSD disk.
- `data_disk` - (Optional) The list of data disks created together with the instance.
 - `type` - Data disk type. Valid values are `SSD3.0` (SSD cloud disk) and `EHDD` (EHDD cloud disk).
 - `size` - The size of the data disk, in GB.
 - `delete_with_instance` - Whether or not the data disk is deleted when the instance is terminated.
- `subnet_id` - (Required) The ID of the subnet where the instance is located in the current region.
- `security_group_id` - (Required) The ID of the security group to which the instance is assigned.
- `instance_password` - (Optional) The password to access the instance, which is a string of 8 to 32 characters.
- `instance_name` - (Optional) Instance name, which contains 2 to 64 alphanumeric characters.
- `keep_image_login` - (Optional) Whether or not to keep the initial settings of the custom image.
- `charge_type` - (Required) The charging type used by the instance. Valid values are `Monthly`, `Daily`, and `HourlyInstantSettlement`.
- `purchase_time` - (Optional) Time duration that the instance is purchased for.
- `private_ip_address` - (Optional) Instance private IP address, which is assigned when the instance is created.
- `sriov_net_support` (Optional) Whether or not network enhancement is supported.
- `project_id` - (Optional) The ID of the project to which the instance is assigned.
- `user_data` - (Optional) The user data to be specified into this instance. The value must be encrypted in base64 format and cannot exceed 16 KB.

Attributes Reference

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

- `creation_date` - The time when the instance was created. The value is an ISO8601 string.
- `instance_state` - Instance current status. Possible values are `active`, `building`, `stopped`, `deleting`.

ksyun_volumes

This data source provides a list of volume resources based on the availability zone.

Example Usage

```
# Get volumes
data "ksyun_volumes" "default" {
  output_file="output_result"
  ids=[]
  volume_category=""
  volume_status=""
  volume_type=""
  availability_zone=""
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of volume IDs. If this parameter is not provided, all volumes are queried.
- `volume_category` - (Optional) The category of volumes. Valid values are `system` (system disk) and `data` (data disk).
- `volume_status` - (Optional) The status of volumes. Valid values are `creating`, `available`, `attaching`, `in-use`,

detaching, extending, deleting, error, and recycling.

- `volume_type` - (Optional) The type of volumes. Valid values are SSD and SATA.
- `output_file` - (Optional) The name of the file to store data source results output by executing terraform plan.

ksyun_volume

Provides an EBS volume resource.

Example Usage

```
resource "ksyun_volume" "default" {
  volume_name="test"
  volume_type="SSD3.0"
  size=15
  charge_type="Daily"
  availability_zone="cn-shanghai-3a"
  volume_desc="test"
}
```

Argument Reference

The following arguments are supported:

- `volume_name` - (Optional) The name of the volume, which contains 2 to 50 characters and supports only alphanumeric characters, hyphens (-), and underscores (_).
- `volume_type` - (Required) The type of the volume to create. Valid values are SSD3.0 and EHDD.
- `size` - (Required) The size of the volume in GB.
- `charge_type` - (Required) The charging type of the volume. Valid values are Monthly, Daily, and HourlyInstantSettlement.
- `volume_desc` - (Optional) The description of the volume.

ksyun_volume_attach

Provides a resource to attach a volume to a KEC instance.

Example Usage

```
resource "ksyun_volume_attach" "default" {
  volume_id="9778a85d-ea38-4521-a0d1-987538cbdc40"
  instance_id="37ed557e-c092-418d-97bf-9642315de2f1"
}
```

Argument Reference

The following arguments are supported:

- `volume_id` - (Required) The ID of the volume.
- `instance_id` - (Required) The ID of the KEC instance.

ksyun_krds

This data source provides RDS instance information.

Example Usage

```
data "ksyun_krds" "search-krds" {
  output_file = "output_file"
  db_instance_identifier = "****"
  db_instance_type = "HRDS, RR, TRDS"
  keyword = ""
  order = ""
  project_id = ""
  marker = ""
  max_records = ""
}
```

Argument Reference

The following arguments are supported:

- `output_file` - (Required) The file name of the content store.
- `db_instance_identifier` - (Optional) Instance ID. If omitted, all instances are queried.
- `db_instance_type` - (Optional) The type of the instance. Valid values are HRDS (highly available), RR (read-only), and TRDS (temporary).
- `db_instance_status` - (Optional) Instance status. Valid values are active and invalid (please renew).
- `keyword` - (Optional) The keyword for fuzzy filtering by name or VIP.
- `order` - (Optional) The way that the list is sorted. The value is a case sensitive string, which can be default (default sorting method) or group (sorting by replication group, will rank read-only instances after their primary instances).
- `project_id` - (Optional) The ID of the project to which the instance is assigned. The default value is all projects.
- `marker` - (Optional) Record start offset.
- `max_records` - (Optional) The maximum number of entries in the result of each page. The value range is 1 to 100.

Attributes Reference

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

- `DBInstanceClass` - Instance specifications
- `Vcpus` - Number of CPUs
- `Disk` - Hard disk size
- `Ram` - Memory size
- `DBInstanceIdentifier` - Instance ID
- `DBInstanceName` - Instance name
- `DBInstanceStatus` - Instance status
- `DBInstanceType` - Instance type
- `DBParameterGroupId` - Parameter group ID
- `GroupId` - Group ID
- `SecurityGroupId` - Security group ID
- `Vip` - Virtual IP
- `Port` - Port number
- `Engine` - Database engine
- `EngineVersion` - Database engine version
- `InstanceCreateTime` - Instance creation time
- `MasterUserName` - User name of the primary account
- `DatastoreVersionId` - Database version
- `Region` - Region
- `VpcId` - Virtual private network ID
- `ReadReplicaDBInstanceIdentifiers` - Read-only instance
- `BillType` - Billing type
- `MultiAvailabilityZone` - Multi-availability zone
- `ProductId` - Product ID
- `DiskUsed` - Hard disk usage
- `ProjectId` - Project ID
- `ProjectName` - Project name

ksyun_sqlservers

This data source provides HRDS SQLServer instance information.

Example Usage

```
data "ksyun_sqlservers" "search-sqlservers" {
  output_file = "output_file"
  db_instance_identifier = "****"
  db_instance_type = "HRDS-SS"
  keyword = ""
  order = ""
  project_id = ""
  marker = ""
  max_records = ""
}
```

Argument Reference

The following arguments are supported:

- `output_file` - (Required) The file name of the content store.
- `db_instance_identifier` - (Optional) Instance ID. If omitted, all instances are queried.
- `db_instance_type` - (Optional) The type of the instance, which is HRDS_SS (highly available).
- `db_instance_status` - (Optional) Instance status. Valid values are `active` and `invalid` (please renew).
- `keyword` - (Optional) The keyword for fuzzy filtering by name or VIP.
- `order` - (Optional) The way that the list is sorted. The value is a case sensitive string, which can be `default` (default sorting method) or `group` (sorting by replication group, will rank read-only instances after their primary instances).
- `project_id` - (Optional) The ID of the project to which the instance is assigned. The default value is all projects.
- `marker` - (Optional) Record start offset.
- `max_records` - (Optional) The maximum number of entries in the result of each page. The value range is 1 to 100.

Attributes Reference

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

- `DBInstanceClass` - Instance specifications
- `Vcpus` - Number of CPUs
- `Disk` - Hard disk size
- `Ram` - Memory size
- `DBInstanceIdentifier` - Instance ID
- `DBInstanceName` - Instance name
- `DBInstanceStatus` - Instance status
- `DBInstanceType` - Instance type
- `DBParameterGroupId` - Parameter group ID
- `GroupId` - Group ID
- `SecurityGroupId` - Security group ID
- `Vip` - Virtual IP
- `Port` - Port number
- `Engine` - Database engine
- `EngineVersion` - Database engine version
- `InstanceCreateTime` - Instance creation time
- `MasterUserName` - User name of the primary account
- `DatastoreVersionId` - Database version
- `Region` - Region
- `VpcId` - Virtual private network ID
- `ReadReplicaDBInstanceIdentifiers` - Read-only instance
- `BillType` - Billing type
- `MultiAvailabilityZone` - Multi-availability zone
- `ProductId` - Product ID
- `DiskUsed` - Hard disk usage
- `ProjectId` - Project ID
- `ProjectName` - Project name

ksyun_krds_security_groups

This data source provides information about security groups for KRDS instances.

Example Usage

```
data "ksyun_sqlservers" "search-sqlservers" {
  output_file = "output_file"
  security_group_id = 123
}
```

Argument Reference

The following arguments are supported:

- `output_file`- (Required) The file name of the content store.
- `security_group_id`- (Optional) Security group ID.

Attributes Reference

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

- SecurityGroupId- Security group ID
- SecurityGroupName- Security group name
- SecurityGroupDescription- Security group description
- Instances- Corresponding instances
- DBInstanceIdentifier- Instance ID
- DBInstanceName- Instance name
- Vip- Instance virtual IP
- SecurityGroupRules- Security group rules
- SecurityGroupRuleId- Rule ID
- SecurityGroupRuleName- Rule name
- SecurityGroupRuleProtocol- Rule protocol

ksyun_krds

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

»Create a RDS MySQL instance

```
provider "ksyun" {
  region = "cn-shanghai-3"
  access_key = ""
  secret_key = ""
}

variable "available_zone" {
  default = "cn-shanghai-3a"
}

resource "ksyun_vpc" "default" {
  vpc_name = "ksyun-vpc-tf"
  cidr_block = "10.7.0.0/21"
}

resource "ksyun_subnet" "foo" {
  subnet_name = "ksyun-subnet-tf"
  cidr_block = "10.7.0.0/21"
  subnet_type = "Reserve"
  dhcp_ip_from = "10.7.0.2"
  dhcp_ip_to = "10.7.0.253"
  vpc_id = "${ksyun_vpc.default.id}"
  gateway_ip = "10.7.0.1"
  dns1 = "198.18.254.41"
  dns2 = "198.18.254.40"
  availability_zone = "${var.available_zone}"
}

resource "ksyun_krds_security_group" "krds_sec_group_14" {
  output_file = "output_file"
  security_group_name = "terraform_security_group_14"
  security_group_description = "terraform-security-group-14"
  security_group_rule {
    security_group_rule_protocol = "182.133.0.0/16"
    security_group_rule_name = "asdf"
  }
  security_group_rule {
    security_group_rule_protocol = "182.134.0.0/16"
    security_group_rule_name = "asdf2"
  }
}

resource "ksyun_krds" "my_rds_xx" {
  output_file = "output_file"
  db_instance_class = "db.ram.2|db.disk.21"
  db_instance_name = "houbin_terraform_1-n"
  db_instance_type = "HRDS"
  engine = "mysql"
  engine_version = "5.7"
  master_user_name = "admin"
  master_user_password = "123qweASD123"
  vpc_id = "${ksyun_vpc.default.id}"
  subnet_id = "${ksyun_subnet.foo.id}"
}
```

```

bill_type = "DAY"
security_group_id = "${ksyun_krds_security_group.krds_sec_group_14.id}"
preferred_backup_time = "01:00-02:00"
availability_zone_1 = "cn-shanghai-3a"
availability_zone_2 = "cn-shanghai-3b"
}

```

»Create a RDS MySQL instance with specific parameters

```

provider "ksyun" {
  region = "cn-shanghai-3"
  access_key = ""
  secret_key = ""
}

variable "available_zone" {
  default = "cn-shanghai-3a"
}

resource "ksyun_vpc" "default" {
  vpc_name = "ksyun-vpc-tf"
  cidr_block = "10.7.0.0/21"
}

resource "ksyun_subnet" "foo" {
  subnet_name = "ksyun-subnet-tf"
  cidr_block = "10.7.0.0/21"
  subnet_type = "Reserve"
  dhcp_ip_from = "10.7.0.2"
  dhcp_ip_to = "10.7.0.253"
  vpc_id = "${ksyun_vpc.default.id}"
  gateway_ip = "10.7.0.1"
  dns1 = "198.18.254.41"
  dns2 = "198.18.254.40"
  availability_zone = "${var.available_zone}"
}

resource "ksyun_krds_security_group" "krds_sec_group_14" {
  output_file = "output_file"
  security_group_name = "terraform_security_group_14"
  security_group_description = "terraform-security-group-14"
  security_group_rule {
    security_group_rule_protocol = "182.133.0.0/16"
    security_group_rule_name = "asdf"
  }
  security_group_rule {
    security_group_rule_protocol = "182.134.0.0/16"
    security_group_rule_name = "asdf2"
  }
}

resource "ksyun_krds" "my_rds_xx" {
  output_file = "output_file"
  db_instance_class = "db.ram.2|db.disk.21"
  db_instance_name = "houbin_terraform_1-n"
  db_instance_type = "HRDS"
  engine = "mysql"
  engine_version = "5.7"
  master_user_name = "admin"
  master_user_password = "123qweASD123"
  vpc_id = "${ksyun_vpc.default.id}"
  subnet_id = "${ksyun_subnet.foo.id}"
  bill_type = "DAY"
  security_group_id = "${ksyun_krds_security_group.krds_sec_group_14.id}"
  preferred_backup_time = "01:00-02:00"
  parameters {
    name = "auto_increment_increment"
    value = "8"
  }

  parameters {
    name = "binlog_format"
    value = "ROW"
  }

  parameters {
    name = "delayed_insert_limit"
    value = "108"
  }

  parameters {
    name = "auto_increment_offset"
    value = "2"
  }
  availability_zone_1 = "cn-shanghai-3a"
  availability_zone_2 = "cn-shanghai-3b"
}

```

```

    instance_has_eip = true
}

```

Argument Reference

The following arguments are supported:

- `output_file` - (Required) will return the file name of the content store
- `db_instance_class` - (Required) -this value regex `db.ram.d{1,3}|db.disk.d{1,5}` , `db.ram` is rds random access memory size, `db.disk` is disk size
- `db_instance_name` - (Required) instance name
- `db_instance_type` - (Required) instance type supports `hrds`
- `engine` - (Required) -engine is `db` type, only support `mysql|percona`
- `engine_version` - (Required) database engine version. Only upgrade version is supported when modifying db engine version only support `5.5|5.6|5.7|8.0`
- `master_user_name` - (Required) database primary account name
- `master_user_password` - (Required) master account password
- `vpc_id` - (Required) ID of virtual private network
- `subnet_id` - (Required) subnet ID
- `bill_type` - (Required) Bill type, `YEAR_MONTH` (monthly package), `DAY` (daily billing), default: `YEAR_MONTH`
- `duration` - (Optional) purchase duration in months
- `security_group_id` - (Optional) security group ID
- `preferred_backup_time` - (Optional) backup time
- `availability_zone_1` - (Optional) zone 1
- `availability_zone_2` - (Optional) zone 2
- `project_id` - (Optional) subproject ID
- `parameters` - (Optional) database parameters
- `port` - (Optional) port number
- `instance_has_eip` - (Optional) attach eip for instance

Attributes Reference

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

- `DBInstanceClass` - instance specification
- `Vcpus` - number of CPUs
- `Disk` - hard disk size
- `Ram` - memory size
- `DBInstanceIdentifier` - instance ID
- `DBInstanceName` - instance name
- `DBInstanceStatus` - instance status
- `DBInstanceType` - instance type
- `DBParameterGroupId` - parameter group ID
- `GroupId` - group ID
- `SecurityGroupId` - security group ID
- `Vip` - virtual IP
- `Port` - port number
- `Engine` - Database Engine
- `EngineVersion` - database engine version
- `InstanceCreateTime` - instance creation time
- `MasterUserName` - primary account user name
- `DatastoreVersionId` - database version
- `Region` - region
- `VpcId` - virtual private network ID
- `ReadReplicaDBInstanceIdentifiers` - read only instance
- `BillType` - Bill type
- `MultiAvailabilityZone` - Multi availability zone
- `ProductId` - Product ID
- `DiskUsed` - hard disk usage
- `ProjectId` - Project ID

NOTE: Because of data backup and migration, change DB instance type and storage would cost 15~30 minutes, or even more. Please make full preparation before changing them.

»Attributes Reference The following attributes are exported:

`id` - The RDS instance ID.
`port` - RDS database connection port.

»Timeouts NOTE: Available in 1.52.1+.

The timeouts block allows you to specify timeouts for certain actions:

```
create - (Defaults to 30 mins) Used when creating the db instance (until it reaches the initial Running status).
update - (Defaults to 30 mins) Used when updating the db instance (until it reaches the initial Running status).
delete - (Defaults to 10 mins) Used when terminating the db instance
```

ksyun_krds_rr

Provides an RDS Read Only instance resource. A DB read only instance is an isolated database environment in the cloud.

Example Usage

»Create a RDS Read Only MySQL instance

```
resource "ksyun_krds_rr" "my_rds_rr" {
  output_file = "output_file"
  db_instance_identifier= "*****"
  db_instance_class= "db.ram.2|db.disk.50"
  db_instance_name = "houbin_terraform_888_rr_1"
  bill_type = "DAY"
  security_group_id = "*****"

  parameters {
    name = "auto_increment_increment"
    value = "1"
  }

  parameters {
    name = "binlog_format"
    value = "ROW"
  }
}
```

Argument Reference

The following arguments are supported:

- `output_file`- (Required) will return the file name of the content store
- `db_instance_identifier`- (Required) passes in the instance ID of the RDS highly available instance. A RDS highly available instance can have at most three read-only instances
- `db_instance_class`- (Required) -this value regex `db.ram.d{1,3}|db.disk.d{1,5}` , `db.ram` is rds random access memory size, `db.disk` is disk size
- `db_instance_name`- (Required) instance name
- `bill_type`- (Required) Bill type, year, month (monthly package), day (daily billing), default: year, month
- `duration`- (Optional) purchase duration in months
- `security_group_id`- (Optional) security group ID
- `project_id`- (Optional) subproject ID
- `parameters`- (Optional) database parameters

Attributes Reference

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

- `DBInstanceClass`- instance specification
- `Vcpus`- number of CPUs
- `Disk`- hard disk size
- `Ram`- memory size
- `DBInstanceIdentifier`- instance ID
- `DBInstanceName`- instance name
- `DBInstanceStatus`- instance status
- `DBInstanceType`- instance type
- `DBParameterGroupId`- parameter group ID
- `GroupId`- group ID
- `SecurityGroupId`- security group ID
- `Vip`- virtual IP
- `Port`- port number
- `Engine`- Database Engine
- `EngineVersion`- database engine version
- `InstanceCreateTime`- instance creation time
- `MasterUserName`- primary account user name

- DatastoreVersionId- database version
- Region- region
- VpcId-virtual private network ID
- ReadReplicaDBInstanceIdentifiers- read only instance
- BillType- Bill type
- MultiAvailabilityZone- Multi availability zone
- ProductId- Product ID
- DiskUsed- hard disk usage
- ProjectId- Project ID
- ProjectName- project name

NOTE:RDS RR do not support modify

»Attributes Reference The following attributes are exported:

id - The RDS instance ID.
port - RDS database connection port.

»Timeouts NOTE: Available in 1.52.1+.

The timeouts block allows you to specify timeouts for certain actions:

create - (Defaults to 30 mins) Used when creating the db instance (until it reaches the initial Running status).
update - (Defaults to 30 mins) Used when updating the db instance (until it reaches the initial Running status).
delete - (Defaults to 10 mins) Used when terminating the db instance.

ksyun_sqlserver

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

Example Usage

»Create a RDS SqlServer instance

```
provider "ksyun" {
  region = "cn-shanghai-3"
  access_key = ""
  secret_key = ""
}

variable "available_zone" {
  default = "cn-shanghai-3a"
}

resource "ksyun_vpc" "default" {
  vpc_name = "ksyun-vpc-tf"
  cidr_block = "10.7.0.0/21"
}

resource "ksyun_subnet" "foo" {
  subnet_name = "ksyun-subnet-tf"
  cidr_block = "10.7.0.0/21"
  subnet_type = "Reserve"
  dhcp_ip_from = "10.7.0.2"
  dhcp_ip_to = "10.7.0.253"
  vpc_id = "${ksyun_vpc.default.id}"
  gateway_ip = "10.7.0.1"
  dns1 = "198.18.254.41"
  dns2 = "198.18.254.40"
  availability_zone = "${var.available_zone}"
}

resource "ksyun_sqlserver" "sqlserver-1" {
  output_file = "output_file"
  dbinstanceclass= "db.ram.2|db.disk.20"
  dbinstancename = "ksyun_sqlserver_1"
  dbinstancetype = "HRDS_SS"
  engine = "SQLServer"
  engineversion = "2008r2"
  masterusername = "admin"
  masteruserpassword = "123qweASD"
  vpc_id = "${ksyun_vpc.default.id}"
  subnet_id = "${ksyun_subnet.foo.id}"
  billtype = "DAY"
}
```


Argument Reference

The following arguments are supported:

- `output_file` - (Required) will return the file name of the content store
- `db_instance_class` - (Required) -this value regex `db.ram.d{1,3}|db.disk.d{1,5}` , `db.ram` is rds random access memory size, `db.disk` is disk size
- `db_instance_name` - (Required) instance name
- `db_instance_type` - (Required) instance type supports HRDS_SS
- `engine` (Required) -engine is db type, only support SQLServer
- `engine_version` - (Required) db engine version only support 2008r2, 2012, 2016
- `master_user_name` - (Required) database primary account name
- `master_user_password` - (Required) master account password
- `vpc_id` - (Required) ID of virtual private network
- `subnet_id` - (Required) subnet ID
- `bill_type` - (Required) Bill type, year'month (monthly package), day (daily billing), default: year'month
- `duration` - (Optional) purchase duration in months
- `security_group_id` - (Optional) security group ID
- `preferred_backup_time` - (Optional) backup time
- `availability_zone_1` - (Optional) zone 1
- `availability_zone_2` - (Optional) zone 2
- `project_id` - (Optional) subproject ID
- `parameters` - (Optional) database parameters
- `port` - (Optional) port number

Attributes Reference

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

- `DBInstanceClass` - instance specification
- `Vcpus` - number of CPUs
- `Disk` - hard disk size
- `Ram` - memory size
- `DBInstanceIdentifier` - instance ID
- `DBInstanceName` - instance name
- `DBInstanceStatus` - instance status
- `DBInstanceType` - instance type
- `DBParameterGroupId` - parameter group ID
- `GroupId` - group ID
- `SecurityGroupId` - security group ID
- `Vip` - virtual IP
- `Port` - port number
- `Engine` - Database Engine
- `EngineVersion` - database engine version
- `InstanceCreateTime` - instance creation time
- `MasterUserName` - primary account user name
- `DatastoreVersionId` - database version
- `Region` - region
- `VpcId` - virtual private network ID
- `ReadReplicaDBInstanceIdentifiers` - read only instance
- `BillType` - Bill type
- `MultiAvailabilityZone` - Multi availability zone
- `ProductId` - Product ID
- `DiskUsed` - hard disk usage
- `ProjectId` - Project ID

NOTE: SQLServer not support modify

»Attributes Reference The following attributes are exported:

`id` - The RDS instance ID.
`port` - RDS database connection port.

»Timeouts NOTE: Available in 1.52.1+.

The timeouts block allows you to specify timeouts for certain actions:

`create` - (Defaults to 30 mins) Used when creating the db instance (until it reaches the initial Running status).
`update` - (Defaults to 30 mins) Used when updating the db instance (until it reaches the initial Running status).
`delete` - (Defaults to 10 mins) Used when terminating the db instance.

ksyun_krds_security_group

Provide RDS security group function

Example Usage

»Create a RDS Security GroupL instance

```
»Create a RDS Security Group instance
resource "ksyun_krds_security_group" "krds_sec_group_13" {
  output_file = "output_file"
  security_group_name = "terraform_security_group_13"
  security_group_description = "terraform-security-group-13"
  security_group_rule{
    security_group_rule_protocol = "182.133.0.0/16"
    security_group_rule_name = "asdf"
  }
  security_group_rule{
    security_group_rule_protocol = "182.134.0.0/16"
    security_group_rule_name = "asdf2"
  }
}
```

Argument Reference

The following arguments are supported:

- `output_file`- (Required) will return the file name of the content store
- `security_group_name`- (Required) the name of the security group
- `security_group_description`- (Optional) description of security group
- `security_group_rule`- (Optional) security group rule
- `security_group_rule_protocol`- (Required) 0.0.0.0/32 format
- `security_group_rule_name`- (Required) no more than 256 bytes, only Chinese, uppercase and lowercase letters, numbers, minus signs and underscores are supported

Attributes Reference

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

- `SecurityGroupId`- Security group ID
- `SecurityGroupName`- security group name
- `SecurityGroupDescription`- Security Group Description
- `Instances`- corresponding instance
- `DBInstanceIdentifier`- instance ID
- `DBInstanceName`-instance name
- `Vip`- instance virtual IP
- `SecurityGroupRules`- security group rules
- `SecurityGroupRuleId`-rule ID
- `SecurityGroupRuleName`-rule name
- `SecurityGroupRuleProtocol`- rule protocol

»Timeouts NOTE: Available in 1.52.1+.

The timeouts block allows you to specify timeouts for certain actions:

```
create - (Defaults to 10 mins) Used when creating the db instance (until it reaches the initial Running status).
update - (Defaults to 10 mins) Used when updating the db instance (until it reaches the initial Running status).
delete - (Defaults to 10 mins) Used when terminating the db instance.
```

redis_instances

This data source provides a list of redis resources according to their name, Instance ID, Subnet ID, VPC ID and the Project ID they belong to .

Example Usage

```
# Get redis instances
data "ksyun_redis_instances" "default" {
```

```
output_file      = "output_result1"
fuzzy_search     = ""
iam_project_id   = ""
cache_id        = ""
vnet_id         = ""
vpc_id          = ""
name            = ""
vip             = ""
}
```

Argument Reference

The following arguments are supported:

- name - (Optional) The name of redis instance, all the Redis instances belong to this region will be retrieved if the name is "".
- iam_project_id - (Optional) The project instance belongs to.
- cache_id - (Optional) The ID of the instance .
- vpc_id - (Optional) Used to retrieve instances belong to specified VPC .
- vnet_id - (Optional) The ID of subnet. the instance will use the subnet in the current region.
- vip - (Optional) Private IP address of the instance.
- output_file - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- instances - It is a nested type which documented below.
- total_count - Total number of Redis instances that satisfy the condition.

redis_security_groups

This data source provides a list of redis security group resources according to their security Group Id, name, description they belong to .

Example Usage

```
# Get redis security groups
data "ksyun_redis_security_groups" "default" {
  output_file      = "output_result1"
}
```

Argument Reference

The following arguments are supported:

The following arguments are supported:

- output_file - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- instances` - It is a nested type which documented below.
- total_count - Total number of Redis security groups that satisfy the condition.

redis_instance

Provides an redis instance resource.

Example Usage

```
variable "available_zone" {
  default = "cn-beijing-6a"
}
```

```

variable "subnet_name" {
  default = "ksyun_subnet_tf"
}
variable "vpc_name" {
  default = "ksyun_vpc_tf"
}

variable "vpc_cidr" {
  default = "10.1.0.0/21"
}

variable "protocol" {
  default = "4.0"
}

resource "ksyun_vpc" "default" {
  vpc_name = "${var.vpc_name}"
  cidr_block = "${var.vpc_cidr}"
}

resource "ksyun_subnet" "default" {
  subnet_name = "${var.subnet_name}"
  cidr_block = "10.1.0.0/21"
  subnet_type = "Normal"
  dhcp_ip_from = "10.1.0.2"
  dhcp_ip_to = "10.1.0.253"
  vpc_id = "${ksyun_vpc.default.id}"
  gateway_ip = "10.1.0.1"
  dns1 = "198.18.254.41"
  dns2 = "198.18.254.40"
  available_zone = "${var.available_zone}"
}

resource "ksyun_redis_sec_group" "default" {
  available_zone = "${var.available_zone}"
  name = "testTerraform777"
  description = "testTerraform777"
}

resource "ksyun_redis_instance" "default" {
  available_zone = "${var.available_zone}"
  name = "MyRedisInstance1101"
  mode = 2
  capacity = 1
  slave_num = 2
  net_type = 2
  vnet_id = "${ksyun_subnet.default.id}"
  vpc_id = "${ksyun_vpc.default.id}"
  security_group_id = "${ksyun_redis_sec_group.default.id}"
  bill_type = 5
  duration = ""
  duration_unit = ""
  pass_word = "Shiwol101"
  iam_project_id = "0"
  protocol = "${var.protocol}"
  reset_all_parameters = false
  parameters = {
    "appendonly" = "no",
    "appendfsync" = "everysec",
    "maxmemory-policy" = "volatile-lru",
    "hash-max-ziplist-entries" = "513",
    "zset-max-ziplist-entries" = "129",
    "list-max-ziplist-size" = "-2",
    "hash-max-ziplist-value" = "64",
    "notify-keyspace-events" = "",
    "zset-max-ziplist-value" = "64",
    "maxmemory-samples" = "5",
    "set-max-intset-entries" = "512",
    "timeout" = "600",
  }
}

```

Argument Reference

The following arguments are supported:

- `available_zone` - (Optional) The Zone to launch the DB instance.
- `name` - (Optional) The name of DB instance.
- `mode` - (Optional) The KVStore instance system architecture required by the user. Valid values: 1(cluster), 2(single).
- `capacity` - (Require) The instance capacity required by the user. Valid values :{1, 2, 4, 8, 16, 20, 24, 28,

32, 64}.

- `slave_num` - (Optional) The readonly node num required by the user. Valid values : {0-7}
- `net_type` - (Require) The network type. Valid values : 2(vpc).
- `vpc_id` - (Require) Used to retrieve instances belong to specified VPC .
- `vnet_id` - (Require) The ID of subnet. the instance will use the subnet in the current region.
- `bill_type` - (Optional) Valid values are 1 (Monthly), 5(Daily), 87(HourlyInstantSettlement).
- `duration` - (Optional) Only meaningful if `bill_type` is 1. Valid values: {1~36}.
- `duration_unit` - (Optional) Only meaningful if `bill_type` is 1. Valid values: month.
- `pass_word` - (Optional) The password of the instance. The password is a string of 8 to 30 characters and must contain uppercase letters, lowercase letters, and numbers.
- `iam_project_id` - (Optional) The project instance belongs to.
- `protocol` - Engine version. Supported values: 2.8, 4.0 and 5.0.
- `parameters` - Set of parameters needs to be set after instance was launched. Available parameters can refer to the docs <https://docs.ksyun.com/documents/1018> .

redis_instance_node

Provides an redis instance node resource.

Example Usage

```
resource "ksyun_redis_instance_node" "default" {
  cache_id      = "${ksyun_redis_instance.default.id}"
  available_zone = "${var.available_zone}"
}

resource "ksyun_redis_instance_node" "node" {
  // creating multiple read-only nodes,
  // not concurrently, requires dependencies to synchronize the execution of creating multiple read-only nodes.
  // if only one read-only node is created, it is not required to fill in.
  pre_node_id    = "${ksyun_redis_instance_node.default.id}"
  cache_id      = "${ksyun_redis_instance.default.id}"
  available_zone = "${var.available_zone}"
}
```

Argument Reference

The following arguments are supported:

- `cache_id` - (Optional) The ID of the intance .
 - `available_zone` - (Optional) The Zone to launch the DB instance.

redis_sec_group

Provides an redis security group function.

Example Usage

```
variable "available_zone" {
  default = "cn-beijing-6a"
}

resource "ksyun_redis_sec_group" "add" {
  available_zone = "${var.available_zone}"
  name          = "testAddTerraform"
  description   = "testAddTerraform"
}

resource "ksyun_redis_sec_group_rule" "default" {
  available_zone = "${var.available_zone}"
  security_group_id = "${ksyun_redis_sec_group.add.id}"
  rules = ["172.16.0.0/32", "192.168.0.0/32"]
}

resource "ksyun_redis_sec_group_allocate" "default" {
  available_zone = "${var.available_zone}"
  security_group_id = "${ksyun_redis_sec_group.add.id}"
  cache_ids = ["122334234"]
}
```

Argument Reference

The following arguments are supported:

ksyun_redis_sec_group

- `available_zone` - (Required) The Zone to launch the security group .
- `name` - (Required) The name of the security group.
- `description` - (Required) The description of the security group.

ksyun_redis_sec_group_rule

- `security_group_id` - (Required) The ID of the security group .
- `available_zone` - (Required) The Zone to launch the security group .
- `rules` - (Required) The cidr block of source for the instance, multiple cidr separated by comma.

ksyun_redis_sec_group_allocate

- `available_zone` - (Required) The Zone to launch the security group .
- `security_group_id` - (Required) The ID of the security group .
- `cache_ids` - (Required) The ids of the redis instance .

ksyun_mongodbs

This data source provides a list of MongoDB resources according to their name, Instance ID, Subnet ID, VPC ID and the Project ID they belong to .

Example Usage

```
# Get mongodbs
data "ksyun_mongodbs" "default" {
  output_file = "output_result"
  iam_project_id = ""
  instance_id = ""
  vnet_id = ""
  vpc_id = ""
  name = ""
  vip = ""
}
```

Argument Reference

The following arguments are supported:

- `name` - (Optional) The name of MongoDB, all the MongoDBs belong to this region will be retrieved if the name is "".
- `instance_id` - (Optional) The id of MongoDB, all the MongoDBs belong to this region will be retrieved if the instance_id is "".
- `iam_project_id` - (Optional) The project instance belongs to.
- `vpc_id` - (Optional) Used to retrieve instances belong to specified VPC .
- `vnet_id` - (Optional) The ID of subnet. the instance will use the subnet in the current region.
- `vip` - (Optional) The vip of instances.
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- `instances` - It is a nested type which documented below.
- `total_count` - Total number of MongoDBs that satisfy the condition.

ksyun_mongodb_shard_instance

Provides an shard MongoDB resource.

Example Usage

```
resource "ksyun_mongodb_shard_instance" "default" {
  name = "InstanceName"
  instance_account = "root"
  instance_password = "admin"
  mongos_class = "1C2G"
  mongos_num = 2
  shard_class = "1C2G"
  shard_num = 2
  storage = 5
  vpc_id = "VpcId"
  vnet_id = "VnetId"
  db_version = "3.6"
  pay_type = "hourlyInstantSettlement"
  iam_project_id = "0"
  availability_zone = "cn-shanghai-3b"
}
```

Argument Reference

The following arguments are supported:

- `name` - (Required) The name of instance, which contains 6-64 characters and only support Chinese, English, numbers, '-', '_'.
- `instance_account` - (Optional) The administrator name of instance, if not defined `instance_account`, the instance will use `root`.
- `instance_password` - (Required) The administrator password of instance.
- `mongos_class` - (Required) The class of instance mongo node cpu and memory.
- `mongos_num` - (Required) The num of instance mongo node.
- `shard_class` - (Required) The class of instance shard node cpu and memory.
- `shard_num` - (Required) The num of instance shard node.
- `storage` - (Required) The size of instance disk, measured in GB (GigaByte).
- `vpc_id` - (Required) The id of VPC linked to the instance.
- `vnet_id` - (Required) The id of subnet linked to the instance.
- `db_version` - (Required) The version of instance engine, and support 3.2 and 3.6
- `pay_type` - (Optional) Instance charge type, if not defined `pay_type`, the instance will use `byMonth`.
- `duration` - (Optional) The duration of instance use, if `pay_type` is `byMonth`, the duration is required.
- `iam_project_id` - (Optional) The project id of instance belong, if not defined `iam_project_id`, the instance will use 0.
- `availability_zone` - (Required) Availability zone where instance is located.

ksyun_mongodb_instance

Provides an replica set MongoDB resource.

Example Usage

```
resource "ksyun_mongodb_instance" "default" {
  name = "InstanceName"
  instance_account = "root"
  instance_password = "admin"
  instance_class = "1C2G"
  storage = 5
  node_num = 3
  vpc_id = "VpcId"
  vnet_id = "VnetId"
  db_version = "3.6"
  pay_type = "byDay"
  iam_project_id = "0"
  availability_zone = "cn-shanghai-3b"
}
```

Argument Reference

The following arguments are supported:

- `name` - (Required) The name of instance, which contains 6-64 characters and only support Chinese, English, numbers, '-', '_'.
- `instance_account` - (Optional) The administrator name of instance, if not defined `instance_account`, the instance will use `root`.
- `instance_password` - (Required) The administrator password of instance.
- `instance_class` - (Required) The class of instance cpu and memory.
- `storage` - (Required) The size of instance disk, measured in GB (GigaByte).

- `node_num` - (Required) The num of instance node.
- `vpc_id` - (Required) The id of VPC linked to the instance.
- `vnet_id` - (Required) The id of subnet linked to the instance.
- `db_version` - (Required) The version of instance engine, and support 3.2 and 3.6
- `pay_type` - (Optional) Instance charge type, if not defined `pay_type`, the instance will use `byMonth`.
- `duration` - (Optional) The duration of instance use, if `pay_type` is `byMonth`, the duration is required.
- `iam_project_id` - (Optional) The project id of instance belong, if not defined `iam_project_id`, the instance will use 0.
- `availability_zone` - (Required) Availability zone where instance is located.

ksyun_lbs

This data source provides a list of Load Balancer resources according to their Load Balancer ID, VPC ID and Subnet ID.

Example Usage

```
data "ksyun_lbs" "default" {
  output_file="output_result"
  name_regex=""
  ids=[]
  state=""
  vpc_id=[]
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of Load Balancer IDs, all the LBs belong to this region will be retrieved if the ID is "".
- `name_regex` - (Optional) A regex string to filter resulting lbs by name.
- `vpc_id` - (Optional) The ID of the VPC linked to the Load Balancers.
- `subnet_id` - (Optional) The ID of subnet that intrant load balancer belongs to.
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- `lbs` - It is a nested type which documented below.
- `total_count` - Total number of Load Balancers that satisfy the condition.

The attribute (`lbs`) support the following:

- `id` - The ID of Load Balancer.
- `name` - The name of Load Balancer.
- `vpc_id` - The ID of the VPC linked to the Load Balancers.
- `subnet_id` - (Optional) The ID of subnet that intrant load balancer belongs to.
- `private_ip` - The IP address of intranet IP.

ksyun_lb_listeners

This data source provides a list of Load Balancer Listener resources according to their Load Balancer Listener ID.

Example Usage

```
data "ksyun_listeners" "default" {
  output_file="output_result"
  ids=[""]
  load_balancer_id=["d3fd0421-a35a-4ddb-a939-5c51e8af8e8c", "4534d617-9de0-4a4a-9ed5-3561196cacb6"]
}
```

Argument Reference

The following arguments are supported:

- `load_balancer_id` - (Required) The ID of a load balancer.
- `ids` - (Optional) A list of LB Listener IDs, all the LB Listeners belong to this region will be retrieved if the ID is "".
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- `listeners` - It is a nested type which documented below.
- `total_count` - Total number of LB listeners that satisfy the condition.

The attribute (`lb_listeners`) support the following:

- `id` - The ID of LB Listener.
- `listener_name` - The name of LB Listener.
- `listener_protocol` - LB Listener protocol. Possible values: http, https, tcp and udp.
- `listener_port` - Port opened on the LB Listener to receive requests, range: 1-65535.
- `method` - The load balancer method in which the listener is.

ksyun_lb_acls

This data source provides a list of Load Balancer Rule resources according to their Load Balancer Rule ID.

Example Usage

```
data "ksyun_lb_acls" "default" {
  output_file="output_result"
  ids=[]
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of LB Rule IDs, all the LB Rules belong to the Load Balancer listener will be retrieved if the ID is "".
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- `lb_acls` - It is a nested type which documented below.
- `total_count` - Total number of LB Rules that satisfy the condition.

ksyun_lb_backend_server_groups

This data source provides a list of lb backend server groups in the current region.

Example Usage

```
provider "ksyun" {
}
# Get availability zones
data "ksyun_lb_backend_server_groups" "default" {
  output_file="out_file"
  ids=[]
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of backend server group IDs.
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- `create_time` - The time when the backend server group was created.
- `vpc_id` - Virtual private network ID.
- `backend_server_group_id` - The id of backend server group.
- `backend_server_group_name` - The name of backend server group.
- `backend_server_number` - The number of backend server number.
- `backend_server_group_type` - The type of backend server group. Valid values are Server and Mirror.
- `health_check` - Health check information, only the mirror server has this parameter.

ksyun_lb_host_headers

This data source provides a list of lb host headers in the current region.

Example Usage

```
provider "ksyun" {  
}  
# Get slbs  
data "ksyun_lb_host_headers" "default" {  
  output_file="output_result"  
  ids=[]  
  listener_id=[]  
}
```

Argument Reference

- `ids` - (Optional) A list of hostheader IDs.
- `listener_id` - (Optional) The ID of listener.
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

- `create_time` - The time when the hostheader was created.
- `host_header_id` - The ID of hostheader.
- `host_header` - The hostheader.
- `certificate_id` - The ID of certificate, HTTPS type listener creates this parameter which is not default.

ksyun_lb_register_backend_servers

This data source provides a list of register backend servers in the current region.

Example Usage

```
provider "ksyun" {  
  region="cn-beijing-6"  
}  
data "ksyun_lb_register_backend_servers" "foo" {  
  output_file="output_result"  
  ids=[]  
  backend_server_group_id=[]  
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of backend service IDs.
- `backend_server_group_id` - (Optional) The ID of backend server group.

Attributes Reference

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

- `create_time` - The time when the backend server was created.
- `backend_server_group_id` - The id of backend server group.
- `register_id` - The registration ID of the binding server group.
- `real_server_ip` - The IP of real server.
- `real_server_port` - The port of real server. Valid Values:1-65535.
- `real_server_type` - The type of real server. Valid Values:'Host'.
- `master_slave_type` - The type of real server. Only MasterSlave listener has this parameter. The Valid Values:'Master', 'Slave'.
- `instance_id` - The ID of instance.
- `network_interface_id` - The ID of network interface.
- `real_server_state` - The state of real server. Values:'healthy', 'unhealthy'
- `weight` - The weight of backend service. Valid Values:1-255

ksyun_lb_rules

This data source provides a list of ksyun lb rules in the current region.

Example Usage

```
provider "ksyun" {
}
# Get slb rule
data "ksyun_lb_rules" "default" {
  output_file="output_result"
  ids=[]
  host_header_id=[]
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of rule IDs.
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).
- `host_header_id` - (Optional) The id of host header.

Attributes Reference

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

- `create_time` - The time when the rule was created.
- `rule_id` - The ID of rule.
- `path` - The path of rule
- `backend_server_group_id` - The id of backend server group
- `listener_sync` - Whether to synchronizethe the health check, the session hold and the forward algorithms of the listener. Valid Values:'on', 'off'.
- `method` - Forwarding mode of listener. Valid Values:'RoundRobin', 'LeastConnections'.
- `session_state` - The state of session. Valid Values:'start', 'stop'.
- `session_persistence_period` - Session hold timeout. Valid Values:1-86400
- `cookie_type` - The type of the cookie. Valid Values:'ImplantCookie', 'RewriteCookie'.
- `cookie_name` - The name of cookie. The CookieType is valid and required when it is 'RewriteCookie'; otherwise, this value is ignored.
- `timeout` - Health check timeout. Valid Values:1-3600.
- `interval` - Interval of health examination. Valid Values:1-3600.
- `health_check_state` - Status maintained by health examination. The health check state is valid and selected when the ListenerSync is 'off ', otherwise, this value is ignored. Valid Values:'start', 'stop'.
- `healthy_threshold` - Health threshold. Valid and required when HealthCheckState is 'start', this value is ignored in other cases. Valid Values:1-10.
- `unhealthy_threshold` - Unhealthy threshold. Valid Values:1-10.
- `url_path` - Link to HTTP type listener health check.

- `host_name` - Domain name of HTTP type health check.

ksyun_health_checks

This data source provides a list of healthcheck resources according to their healthcheck ID or listener ID.

Example Usage

```
data "ksyun_health_checks" "default" {
  output_file="output_result"
  ids=[]
  listener_id=["8d1dac22-6c6c-42ea-93e2-2702d44ddb93", "70467f7e-23dc-465a-a609-fb1525fc6b16"]
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of health check IDs, all the healthcheck belong to this region will be retrieved if the ID is "".
- `listener_id` - (Optional) A list of listener IDs, all the healthcheck belong to this region will be retrieved if the ID is "".
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- `health_checks` - It is a nested type which documented below.
- `total_count` - Total number of Elastic IPs that satisfy the condition.

ksyun_lb_listener_servers

This data source provides a list of Load Balancer Listener Server resources according to their Load Balancer Listener Server ID.

Example Usage

```
data "ksyun_listener_servers" "default" {
  output_file="output_result"
  ids=[]
  listener_id=[]
  real_server_ip=["10.72.20.126", "172.31.16.20"]
}
```

Argument Reference

The following arguments are supported:

- `ids` - (Optional) A list of LB Listener Server IDs, all the LB Listener Servers belong to this region will be retrieved if the ID is "".
- `output_file` - (Optional) File name where to save data source results (after running terraform plan).

Attributes Reference

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

- `listener_id` - The ID of LB Listener.
- `real_server_ip` - The name of LB Listener Server.

ksyun_lb

Provides a Load Balancer resource.


```

XXzJWXS3TY\ynn7wA0Q0ia5JKEQaEJkyDyWU6QNsw8SCBYLA3EnHH/h29L9Z2jEBVOKD11w19iX\NoLxTQzQrJfSeNmZ6f1bBkF/msWggNqSMJcwsRwtZdmYwtb7e7
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d/zGv1JKZkAhsmcau6NP\nd6C+Xf/8VgtDcneQyp758jn1Dan06tfnxAvMEI3IcwwcMmGmA/MWE2Du331GqU3\NjbasmPcAOmNxJB6eN8T/dNQ3w0L+ieZgEd0IP1A
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XaYcwyjRo9BBrvIwaQY1KwYBBQUHAQEEXTBbMCCG\NCCSQAQUFBzABhhtodHRwOi8vb2NzcC5zZGFydHNzbC5jb20vY2EwMAYIKwYBBQUH\NMAKJGh0dHA6Ly9ha
WEuc3RhcncRzc2wvY29tL2N1cnRzL2NhbLmYdDyBgnVHR8E\NkZApMcEgJaAjiFodHRwOi8vY3JslN0YXJ0c3NsLmNvbS9zZnNjYS5jemwwDQYJ\NkoZIHvcNAQELB
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S41Eiv+BDnkPD0MCVZAORX0wmgMtf1Sze6d+Jj8e0dYR48cc1hpM6v/3d+0\NjAF3mBk6sGZ5v0E1ow5PwQsZ8whI69NZHDXSxx5wZyJ/28/7yJkSYMNEbzqAS9e+\
NIAoUemTL3TDDRvSyLkXw2Vkfxf01VNH1hX7V98Y29iOR1S5jdJ7DkHEQqYXR\NBYIRH6o1WPMgdQ9Z7/pVcnINJtCbU0mszjcuZWH/9uwb6vbxptPrTxu+NfQiw
byN\Nab1oXoMNL+zW2mMMJ9FUPuSo085LmrIR1P/7W0ktDRiouGao67Zwk1Ph5Hti3tr\NlJiJOYNPgmRpbzBfJyE6+5KmlgXZwBgQyZYN19Lx9Ph080uhvY6q109qN
hJKCeJ3Z\NzP+/V2R07Sg9RGIVYUv31LANKmc8MubpZK/+EFawT1g7Z+7uG2bzqlqfj9+6gbx\N-----END CERTIFICATE-----"
private_key="-----BEGIN RSA PRIVATE KEY-----\nMIIEPQIBAACAQEAQgjl8buPjyFbLXNI2ie07gVHRGEvKbE8+wqVS/UyioASOLqK\N+h37rHi1USizD
8GTY2NNh6KbemfgflhiuxASxTAdZmBGkD8Auws68tVl+ur1uh\Nt1gYtnY1dhi5c6Em0otTB0E4YtMQYeTAqKGEYVD000IF5scI3eVDQgw/qsjf0o\NukjM9VfY
yalarKWo2A4tLr527qkBTymAPuLaHY72mdQ1V39bUktG8Pgbmvi+yc\NfjhpACGcoJKEfSydWejEkiQDdxRe46cb0Jkg2cpJ4JEF1YDI dh3AAsNgYEE7Md\NvhYE
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PGE9yQek4fs36ClgtuBRNWGvsprMCWVn2tA2uGONEC1Sn25CBADmfcC7UDHxMJ\Nubw2j/3VRC4Nkx0UbyC5F3E+WuiasL5Nch/gWrT9jdHIcmpJXhtw65gJOt3HE
kf\N9RcQYjC8S8WVMtS7xRhK+1eXK+Vbn3pcXQ9Q6icce9+Lsboey0GPi4GC3KcA3/R\N5t5Zw14Yo04J2NfjJbSquPZnvDpYaS2iwwtaZUuUrYaIZkwhfD0mD6o
6fDr1wL\NBBSJUECgYEA8iGUf1CTQ1oCYl+c6xhXsf8YUAKd/UiCZVOKdna3rV84eopZYNS\Nniw139yyJHUEGtzrMDvtCiR7btxyyzFoK/7NhMzJE8zia/UG3zr
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YEA05Wegmb811gDT12H7TR\NzY6p+zjeQHJ17DRVcmLqTNVBRNVyUJhM++cQHxFu3AQ157XcnXbZJK0vkiRk41o\NlstrdWZ/uUnwmm/opQCbEg49i970QA0UNkr
4XK8nLXF+cF967SxxBM1Q+SKQtrvn\NwRbnv0NdxMAIFs4DJ98c5cCgYEA82oKokXoAJd20dRiR2QiFCnQu20kYwKv1r\N/nb6FCFSGImh1RijG4LHe/wirfr34x
HA42oEwYgn7uVvZsPM9jW0Gp+F6W1zBad1\Nz1KgpVwtFX0QYdLMB6yR1XZGpf/83y8iJJJaJRh+Q3CCeguu2UU+eyCb7vXou3J0\NnrARpTcECgYEAzGugegAYtr1F+
c+zFGySztIxYld6H+T9cDgrUtWA0p+P3SbvbLl\N5PdRJ183xZo6s40+ptv5g1+XcNFIM/xiSmuyogfCwNBifR45anqm01ok/YON1cya\NEXN6Umpw6r00b9aCuhK
AJES+QYtZ4jzn5NYPHC2t4yv+OKF1UHJWEok=\N-----END RSA PRIVATE KEY-----"
}
# Create Load Balancer Listener with tcp protocol
resource "ksyun_lb_listener" "default" {
  listener_name = "tf-xun",
  listener_port = "8000",
  listener_protocol = "HTTPS",
  listener_state = "stop",
  load_balancer_id = "7fae85e4-ab1a-415c-aeef9-03a402c79d97",
  method = "RoundRobin"
  certificate_id = "${ksyun_certificate.default.id}"
  session {
    session_state = "stop"
    session_persistence_period = 100
    cookie_type = "ImplantCookie"
    cookie_name = "cookieXunq"
  }
}

```

Argument Reference

The following arguments are supported:

- `listener_name` - (Optional) The name of listener.
- `listener_port` - (Required) The protocol port of listener.
- `listener_protocol` - (Required) The protocol of listener. Valid Values: 'TCP', 'UDP', 'HTTP', 'HTTPS'.
- `listener_state` - (Required) The state of listener. Valid Values: 'start', 'stop'.
- `load_balancer_id` - (Required) The ID of load balancer instance.
- `method` - (Required) Forwarding mode of listener. Valid Values: 'RoundRobin', 'LeastConnections'.
- `certificate_id` - (Optional) The ID of certificate.
- `session_state` - (Required) The state of session. Valid Values: 'start', 'stop'.
- `session_persistence_period` - (Optional) Session hold timeout. Valid Values: 1-86400
- `cookie_type` - (Optional) The type of the cookie. Valid Values: 'ImplantCookie', 'RewriteCookie'.
- `cookie_name` - (Optional) The name of the cookie.

Import

LB Listener can be imported using the id, e.g.

```
$ terraform import ksyun_lb_listener.example vserver-abcdefg
```

ksyun_lb_acl

Provides a Load Balancer acl resource to add content forwarding policies for Load Balancer backend resource.

Example Usage

```
# Create Load Balancer Listener Acl
resource "ksyun_lb_acl" "default" {
  load_balancer_acl_name = "tf-xun2"
}
```

Argument Reference

The following arguments are supported:

- `load_balancer_acl_name` - (Required) The name of a load balancer acl.

ksyun_lb_acl_entry

Provides a Load Balancer acl entry resource to add content forwarding policies for Load Balancer backend resource.

Example Usage

```
resource "ksyun_lb_acl_entry" "default" {
  load_balancer_acl_id = "8e6d0871-da8a-481e-8bee-b3343e2a6166"
  cidr_block = "192.168.11.2/32"
  rule_number = 10
  rule_action = "allow"
  protocol = "ip"
}
```

Argument Reference

The following arguments are supported:

- `load_balancer_acl_id` - (Required) The ID of a load balancer acl.
- `cidr_block` - (Required) The information of load balancer Acl's cidr block.
- `rule_number` - (Required) The information of load balancer Acl's rule priority. Valid Values:1-32766.
- `rule_action` - (Required) The action of load balancer Acl rule. Valid Values:'allow', 'deny'.
- `protocol` - (Required) protocol. Valid Values:'ip'.

ksyun_lb_backend_server_group

Provides a lb backend server group resource.

Example Usage

```
provider "ksyun" {
}
resource "ksyun_lb_backend_server_group" "default" {
  backend_server_group_name="xuan-tf"
  vpc_id=""
  backend_server_group_type=""
}
```

Argument Reference

The following arguments are supported:

- `backend_server_group_name` - (Required) The name of backend server group.
- `vpc_id` - (Required) Virtual private network ID.
- `backend_server_group_type` - (Optional) The type of backend server group. Valid values are Server and Mirror.

Attributes Reference

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

- `create_time` - The time when the backend server group was created.
- `backend_server_group_id` - The ID of backend server group.
- `backend_server_number` - The number of backend server group.
- `health_check` - Health check information, only the mirror server has this parameter.

ksyun_lb_host_header

Provides a lb host header resource.

Example Usage

```
resource "ksyun_lb_host_header" "foo" {
  listener_id = "xxxx"
  host_header = "tf-xuan"
  certificate_id = ""
}
```

Argument Reference

The following arguments are supported:

- `listener_id` - (Required) The ID of the listener.
- `host_header` - (Required) The hostheader.
- `certificate_id` - (Optional) The ID of the certificate, HTTPS type listener creates this parameter which is not default.

Attributes Reference

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

- `create_time` - The time when the hostheader was created.
- `host_header_id` - The ID of hostheader.

ksyun_lb_register_backend_server

Provides a lb register backend server resource.

Example Usage

```
provider "ksyun" {
}
resource "ksyun_lb_register_backend_server" "default" {
  backend_server_group_id="xxxx"
  backend_server_ip="192.168.5.xxx"
  backend_server_port="8081"
  weight=10
}
```

Argument Reference

The following arguments are supported:

- `backend_server_group_id` - (Required) The ID of backend server group.
- `backend_server_ip` - (Required) The IP of backend server.
- `backend_server_port` - (Required) The port of backend server. Valid Values:1-65535
- `weight` - (Optional) The weight of backend service. Valid Values:0-255Mirror.

Attributes Reference

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

- `create_time` - The time when the backend service was created.
- `register_id` - The registration ID of binding server group.
- `real_server_ip` - The IP of real server.
- `real_server_port` - The port of real server. Valid Values:1-65535.
- `real_server_type` - The type of real server. Valid Values:'Host'.
- `master_slave_type` - The type of real server. Only MasterSlave listener has this parameter. The Valid Values:'Master', 'Slave'.
- `instance_id` - The ID of instance.
- `network_interface_id` - The ID of network interface.
- `real_server_state` - The state of real server. Values:'healthy', 'unhealthy'

ksyun_lb_rule

Provides a lb rule resource.

Example Usage

```
provider "ksyun" {  
}  
resource "ksyun_lb_rule" "default" {  
  path = "/tfxun/update",  
  host_header_id = "",  
  backend_server_group_id=""  
  listener_sync="on"  
  method="RoundRobin"  
  session {  
    session_state = "start"  
    session_persistence_period = 1000  
    cookie_type = "ImplantCookie"  
    cookie_name = "cookixunqq"  
  }  
  health_check {  
    health_check_state = "start"  
    healthy_threshold = 2  
    interval = 200  
    timeout = 2000  
    unhealthy_threshold = 2  
    url_path = "/monitor"  
    host_name = "www.ksyun.com"  
  }  
}
```

Argument Reference

The following arguments are supported:

- path - (Required) The path of rule
- host_header_id - (Required) The id of host header id
- backend_server_group_id - (Required) The id of backend server group
- listener_sync - (Required) Whether to synchronizethe the health check, the session hold and the forward algorithms of the listener.Valid Values:'on', 'off'.
- method - (Optional) Forwarding mode of listener.Valid Values:'RoundRobin', 'LeastConnections'.
- session_state - (Optional) The state of session.Valid Values:'start', 'stop'.
- session_persistence_period - (Optional) Session hold timeout.Valid Values:1-86400
- cookie_type - (Optional) The type of the cookie.Valid Values:'ImplantCookie', 'RewriteCookie'.
- cookie_name - (Optional) The name of cookie.The CookieType is valid and required when it is 'RewriteCookie'; otherwise, this value is ignored.
- timeout - (Optional) Health check timeout.Valid Values:1-3600.
- interval - (Optional) Interval of health examination.Valid Values:1-3600.
- health_check_state - (Optional) Status maintained by health examination.The health check state is valid and selected when the ListenerSync is 'off ',otherwise, this value is ignored.Valid Values:'start', 'stop'.
- healthy_threshold - (Optional) Health threshold.Valid and required when HealthCheckState is 'start', this value is ignored in other cases.Valid Values:1-10.
- unhealthy_threshold - (Optional) Unhealthy threshold.Valid Values:1-10.
- url_path - (Optional) Link to HTTP type listener health check.
- host_name - (Optional) Domain name of HTTP type health check.

Attributes Reference

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

- create_time - The time when the rule was created.
- rule_id - The ID of rule.
- cookie_expiration_period - Session holds timeout time.Valid Values: 0-86400.
- backend_server_group_id - The id of backend server group
- listener_sync - Whether to synchronizethe the health check, the session hold and the forward algorithms of the listener.Valid Values:'on', 'off'.
- method - Forwarding mode of listener.Valid Values:'RoundRobin', 'LeastConnections'.
- session_state - The state of session.Valid Values:'start', 'stop'.
- session_persistence_period - Session hold timeout.Valid Values:1-86400
- cookie_type - The type of the cookie.Valid Values:'ImplantCookie', 'RewriteCookie'.
- cookie_name - The name of cookie.The CookieType is valid and required when it is 'RewriteCookie';

otherwise, this value is ignored.

- `timeout` - Health check timeout. Valid Values:1-3600.
- `interval` -Interval of health examination. Valid Values:1-3600.
- `health_check_state` -Status maintained by health examination. The health check state is valid and selected when the ListenerSync is 'off ', otherwise, this value is ignored. Valid Values:'start', 'stop'.
- `healthy_threshold` - Health threshold. Valid and required when HealthCheckState is 'start', this value is ignored in other cases. Valid Values:1-10.
- `unhealthy_threshold` - Unhealthy threshold. Valid Values:1-10.
- `url_path` - Link to HTTP type listener health check.
- `host_name` - Domain name of HTTP type health check.

ksyun_healthcheck

Provides an Health Check resource.

Example Usage

```
resource "ksyun_healthcheck" "default" {
  listener_id = "537e2e7b-0007-4a75-9749-882167dbc93d"
  health_check_state = "stop"
  healthy_threshold = 2
  interval = 20
  timeout = 200
  unhealthy_threshold = 2
  url_path = "/monitor"
  is_default_host_name = true
  host_name = "www.ksyun.com"
}
```

Argument Reference

The following arguments are supported:

- `listener_id` - (Required) The id of the listener.
- `health_check_state` - (Required) Status maintained by health examination. Valid Values:'start', 'stop'.
- `healthy_threshold` - (Required) Health threshold. Valid Values:1-10.
- `interval` - (Required) Interval of health examination. Valid Values:1-3600.
- `timeout` - (Required) Health check timeout. Valid Values:1-3600.
- `unhealthy_threshold` - (Required) Unhealthy threshold. Valid Values:1-10.
- `url_path` - (Optional) Link to HTTP type listener health check.
- `host_name` - (Optional) Domain name of HTTP type health check.

ksyun_lb_listener_server

Provides a Load Balancer Listener server resource.

Example Usage

```
resource "ksyun_lb_listener_server" "default" {
  listener_id = "3a520244-ddc1-41c8-9d2b-66b4cf3a2386"
  real_server_ip = "10.0.77.20"
  real_server_port = 8000
  real_server_type = "host"
  instance_id = "3a520244-ddc1-41c8-9d2b-66b4cf3a2386"
  weight = 10
}
```

Argument Reference

The following arguments are supported:

- `listener_id` - (Required) The id of the listener.
- `real_server_type` - (Required) The type of real server. Valid Values:'Host', 'DirectConnectGateway', 'VpnTunnel'.
- `instance_id` - (Optional) The ID of instance.
- `real_server_ip` - (Required) The IP of real server.
- `real_server_port` - (Required) The port of real server. Valid Values:1-65535
- `weight` - (Optional) The weight of backend service. Valid Values:1-255

Import

LB Listener can be imported using the id, e.g.

```
$ terraform import ksyun_lb_listener.example vserver-abcdefg
```

ksyun_lb_listener_associate_acl

Associate a Load Balancer Listener resource with acl.

Example Usage

```
resource "ksyun_lb_listener_associate_acl_associate_acl" "default" {  
  listener_id = "b330eae5-11a3-4e9e-bf7d-a7a1117a5878"  
  load_balancer_acl_id = "7e94fa82-05c7-496c-ae5e-35fd32ff3cf2"  
}
```

Argument Reference

The following arguments are supported:

- `load_balancer_id` - (Required) The ID of load balancer instance.
- `listener_name` - (Optional) The id of the listener.