

## » oneandone\_\_instance\_\_size

Fetches a predefined instance type for 1&1 servers

### » Example Usage

```
data "oneandone_instance_size" "sizeByName" {
  name = "L"
}

data "oneandone_instance_size" "sizeByHardware" {
  vcores = 2
  ram    = 4
}

resource "oneandone_server" "server" {
  name           = "Example"
  image          = "debian8-64min"
  datacenter     = "DE"
  fixed_instance_size = "${data.oneandone_instance_size.sizeByName.id}"
  ...
}
```

### » Argument Reference

The following arguments are supported, at least one is required:

- **name** - (Optional) Number of cores per processor
- **ram** - (Optional) Size of ram in GB
- **vcores** - (Optional) Number of vcores

It exposes the following attributes

- **coresPerProcessor** - (Computed) The number of vcores per processor
- **id** - (Computed) The ID of the instance type
- **name** - (Computed) The Name of the instance type
- **ram** - (Computed) The size of the ram in GB
- **vcores** - (Computed) The number of vcores

## » oneandone\_\_block\_\_storage

Manages a Block Storage on 1&1

## » Example Usage

```
resource "oneandone_block_storage" "storage" {
  name = "test_blk_storage1"
  description = "testing_blk_storage"
  size = 20
  datacenter = "US"
}
```

## » Argument Reference

The following arguments are supported:

- **datacenter** - (Optional) Location of desired 1and1 datacenter, where the block storage will be created. Can be **DE**, **GB**, **US** or **ES**
- **description** - (Optional) Description for the block storage
- **name** - (Required) The name of the storage
- **server\_id** - (Optional) ID of the server that the block storage will be attached to
- **size** - (Required) Size of the block storage (min: 20, max: 500, multipleOf: 10)

## » oneandone\_\_server

Manages a Firewall Policy on 1&1

## » Example Usage

```
resource "oneandone_firewall_policy" "fw" {
  name = "test_fw_011"
  rules = [
    {
      "protocol" = "TCP"
      "port_from" = 80
      "port_to" = 80
      "source_ip" = "0.0.0.0"
    },
    {
      "protocol" = "ICMP"
      "source_ip" = "0.0.0.0"
    },
    {
      "protocol" = "TCP"
    }
  ]
}
```

```

        "port_from" = 43
        "port_to" = 43
        "source_ip" = "0.0.0.0"
    },
    {
        "protocol" = "TCP"
        "port_from" = 22
        "port_to" = 22
        "source_ip" = "0.0.0.0"
    }
]
}

```

## » Argument Reference

The following arguments are supported:

- **description** - (Optional) Description for the VPN
- **name** - (Required) The name of the VPN.

Firewall Policy Rules (**rules**) support the following:

- **protocol** - (Required) The protocol for the rule. Allowed values are TCP, UDP, TCP/UDP, ICMP and IPSEC.
- **port\_from** - (Optional) Defines the start range of the allowed port
- **port\_to** - (Optional) Defines the end range of the allowed port
- **source\_ip** - (Optional) Only traffic directed to the respective IP address

## » oneandone\_\_server

Manages a Load Balancer on 1&1

## » Example Usage

```

resource "oneandone_loadbalancer" "lb" {
  name = "test_lb"
  method = "ROUND_ROBIN"
  persistence = true
  persistence_time = 60
  health_check_test = "TCP"
  health_check_interval = 300
  datacenter = "GB"
  rules = [
    {

```

```

        protocol = "TCP"
        port_balancer = 8080
        port_server = 8089
        source_ip = "0.0.0.0"
    },
    {
        protocol = "TCP"
        port_balancer = 9090
        port_server = 9099
        source_ip = "0.0.0.0"
    }
]
}

```

## » Argument Reference

The following arguments are supported:

- **name** - (Required) The name of the load balancer.
- **description** - (Optional) Description for the load balancer
- **method** - (Required) Balancing procedure Can be ROUND\_ROBIN or LEAST\_CONNECTIONS
- **datacenter** - (Optional) Location of desired 1and1 datacenter. Can be DE, GB, US or ES
- **persistence** - (Optional) True/false defines whether persistence should be turned on/off
- **persistence\_time** - (Optional) Persistence duration in seconds
- **health\_check\_test** - (Optional) Can be TCP or ICMP.
- **health\_check\_interval** - (Optional)
- **health\_check\_path** - (Optional)
- **health\_check\_path\_parser** - (Optional)

Loadbalancer rules (**rules**) support the following

- **protocol** - (Required) The protocol for the rule. Allowed values are TCP, UDP, TCP/UDP, ICMP and IPSEC.
- **port\_balancer** - (Required)
- **port\_server** - (Required)
- **source\_ip** - (Required)

## » oneandone\_\_server

Manages a Monitoring Policy on 1&1

## » Example Usage

```
resource "oneandone_monitoring_policy" "mp" {
  name = "test_mp"
  agent = true
  email = "jasmin@stackpointcloud.com"

  thresholds = {
    cpu = {
      warning = {
        value = 50,
        alert = false
      }
      critical = {
        value = 66,
        alert = false
      }
    }
    ram = {
      warning = {
        value = 70,
        alert = true
      }
      critical = {
        value = 80,
        alert = true
      }
    },
    ram = {
      warning = {
        value = 85,
        alert = true
      }
      critical = {
        value = 95,
        alert = true
      }
    },
    disk = {
      warning = {
        value = 84,
        alert = true
      }
      critical = {
```

```

        value = 94,
        alert = true
    }
},
transfer = {
    warning = {
        value = 1000,
        alert = true
    }
    critical = {
        value = 2000,
        alert = true
    }
},
internal_ping = {
    warning = {
        value = 3000,
        alert = true
    }
    critical = {
        value = 4000,
        alert = true
    }
}
}
ports = [
{
    email_notification = true
    port = 443
    protocol = "TCP"
    alert_if = "NOT_RESPONDING"
},
{
    email_notification = false
    port = 80
    protocol = "TCP"
    alert_if = "NOT_RESPONDING"
},
{
    email_notification = true
    port = 21
    protocol = "TCP"
    alert_if = "NOT_RESPONDING"
}
]

```

```

processes = [
    {
        email_notification = false
        process = "httpdemon"
        alert_if = "RUNNING"
    },
    {
        process = "iexplorer",
        alert_if = "NOT_RUNNING"
        email_notification = true
    }
]
}

```

## » Argument Reference

The following arguments are supported:

- **name** - (Required) The name of the VPN.
- **description** - (Optional) Description for the VPN
- **email** - (Optional) Email address to which notifications monitoring system will send
- **agent** (Required) Indicates which monitoring type will be used. True: To use this monitoring type, you must install an agent on the server. False: Monitor a server without installing an agent. Note: If you do not install an agent, you cannot retrieve information such as free hard disk space or ongoing processes.

Monitoring Policy Thresholds (**thresholds**) support the following:

- 'cpu - (Required) CPU thresholds
  - **warning** - (Required) Warning alert      \***value** - (Required) Warning to be issued when the threshold is reached. from 1 to 100 \*
  - \* **alert** - (Required) If set true warning will be issued.
  - \* 'critical - (Required) Critical alert
    - 'value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - 'alert - (Required) If set true warning will be issued.
- 'ram - (Required) RAM threshold
  - 'warning - (Required) Warning alert
    - \* 'value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - \* 'alert - (Required) If set true warning will be issued.
  - 'critical - (Required) Critical alert
    - \* 'value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - \* 'alert - (Required) If set true warning will be issued.

- ‘disk - (Required) Hard Disk threshold
  - ‘warning - (Required) Warning alert
    - \* ‘value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - \* ‘alert - (Required) If set true warning will be issued.
  - ‘critical - (Required) Critical alert
    - \* ‘value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - \* ‘alert - (Required) If set true warning will be issued.
- ‘transfer - (Required) Data transfer threshold
  - ‘warning - (Required) Warning alert
    - \* ‘value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - \* ‘alert - (Required) If set true warning will be issued.
  - ‘critical - (Required) Critical alert
    - \* ‘value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - \* ‘alert - (Required) If set true warning will be issued.
- ‘internal\_ping - (Required) Ping threshold
  - ‘warning - (Required) Warning alert
    - \* ‘value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - \* ‘alert - (Required) If set true warning will be issued.
  - ‘critical - (Required) Critical alert
    - \* ‘value - (Required) Warning to be issued when the threshold is reached. from 1 to 100
    - \* ‘alert - (Required) If set true warning will be issued.

Monitoring Policy Ports (**ports**) support the following:

- **email\_notification** - (Required) If set true email will be sent.
- **port** - (Required) Port number.
- **protocol** - (Required) The protocol of the port. Allowed values are TCP, UDP, TCP/UDP, ICMP and IPSEC.
- **alert\_if** - (Required) Condition for the alert to be issued.

Monitoring Policy Ports (**processes**) support the following:

- **email\_notification** - (Required) If set true email will be sent.
- **process** - (Required) Process name.
- **alert\_if** - (Required) Condition for the alert to be issued.

## » **oneandone\_server**

Manages a Private Network on 1&1



## » Example Usage

```
resource "oneandone_private_network" "pn" {
  name = "pn_test",
  description = "new stuff001"
  datacenter = "GB"
  network_address = "192.168.7.0"
  subnet_mask = "255.255.255.0"
  server_ids = [
    "${oneandone_server.server.id}",
    "${oneandone_server.server02.id}",
  ]
}
```

## » Argument Reference

The following arguments are supported:

- **datacenter** - (Optional) Location of desired 1and1 datacenter. Can be DE, GB, US or ES.
- **description** - (Optional) Description for the shared storage
- **name** - (Required) The name of the private network
- **network\_address** - (Optional) Network address for the private network
- **subnet\_mask** - (Optional) Subnet mask for the private network
- **server\_ids** (Optional) List of servers that are to be associated with the private network

## » oneandone\_\_ip

Manages a Public IP on 1&1

## » Example Usage

```
resource "oneandone_public_ip" "ip" {
  "ip_type"      = "IPv4"
  "reverse_dns" = "%s"
  "datacenter"   = "GB"
}
```

## » Argument Reference

The following arguments are supported:

- `ip_type` - (Required) IP type. Can be IPV4 or IPV6
- `reverse_dns` - (Optional)
- `datacenter` - (Optional) Location of desired 1and1 datacenter. Can be DE, GB, US or ES.
- `ip_address` - (Computed) The IP address.

## » `oneandone__server`

Manages a Server on 1&1

### » Example Usage

```
resource "oneandone_server" "server" {
  name = "Example"
  description = "Terraform 1and1 tutorial"
  image = "ubuntu"
  datacenter = "GB"
  vcores = 1
  cores_per_processor = 1
  ram = 2
  ssh_key_path = "/path/to/private/ssh_key"
  ssh_key_public = "${file("/path/to/public/key.pub")}"
  hdds = [
    {
      disk_size = 60
      is_main = true
    }
  ]

  provisioner "remote-exec" {
    inline = [
      "apt-get update",
      "apt-get -y install nginx",
    ]
  }
}
```

### » Argument Reference

The following arguments are supported:

- `cores_per_processor` -(Optional) Number of cores per processor

- **datacenter** - (Optional) Location of desired 1and1 datacenter. Can be DE, GB, US or ES
- **description** - (Optional) Description of the server
- **firewall\_policy\_id** - (Optional) ID of firewall policy
- **fixed\_instance\_size** - (Optional) ID of a fixed instance size
- **hdds** - (Optional) List of HDDs. One HDD must be main.
- **\*disk\_size** -(Required) The size of HDD
- **\*is\_main** - (Optional) Indicates if HDD is to be used as main hard disk of the server
- **image** -(Required) The name of a desired image to be provisioned with the server
- **ip** - (Optional) IP address for the server
- **loadbalancer\_id** - (Optional) ID of the load balancer
- **monitoring\_policy\_id** - (Optional) ID of monitoring policy
- **name** -(Required) The name of the server.
- **password** - (Optional) Desired password.
- **ram** -(Optional) Size of ram.
- **ssh\_key\_path** - (Optional) Path to private ssh key
- **ssh\_key\_public** - (Optional) The public key data in OpenSSH authorized\_keys format.
- **vcores** -(Optional) Number of virtual cores.

Either **fixed\_instance\_size** or all of **vcores**, **cores\_per\_processor**, **ram** and **hdds** are required.

IPs (**ips**) expose the following attributes

- **id** - (Computed) The ID of the attached IP
- **ip** - (Computed) The IP
- **firewall\_policy\_id** - (Computed) The attached firewall policy

## » **oneandone\_baremetal**

Manages a Baremetal Server on 1&1

### » **Example Usage**

```
resource "oneandone_baremetal" "server" {
  name = "%s"
  description = "%s"
  image = "%s"
  password = "Kv40kd8PQb"
  datacenter = "US"
  baremetal_model_id = "%s"
  ssh_key_path = "/path/to/private/ssh_key"
```

```
ssh_key_public = "${file("/path/to/public/key.pub")}"

provisioner "remote-exec" {
  inline = [
    "apt-get update",
    "apt-get -y install nginx",
  ]
}
}
```

## » Argument Reference

The following arguments are supported:

- **datacenter** - (Optional) Location of desired 1and1 datacenter. Can be DE, GB, US or ES
- **description** - (Optional) Description of the server
- **firewall\_policy\_id** - (Optional) ID of firewall policy
- **baremetal\_model\_id** - (Required) ID of a baremetal model
- **image** - (Required) The name of a desired image to be provisioned with the server
- **ip** - (Optional) IP address for the server
- **loadbalancer\_id** - (Optional) ID of the load balancer
- **monitoring\_policy\_id** - (Optional) ID of monitoring policy
- **name** - (Required) The name of the server.
- **password** - (Optional) Desired password.
- **ssh\_key\_path** - (Optional) Path to private ssh key
- **ssh\_key\_public** - (Optional) The public key data in OpenSSH authorized\_keys format.

IPs (ips) expose the following attributes

- **id** - (Computed) The ID of the attached IP
- **ip** - (Computed) The IP
- **firewall\_policy\_id** - (Computed) The attached firewall policy

## » oneandone\_\_server

Manages a Shared Storage on 1&1

## » Example Usage

```
resource "oneandone_shared_storage" "storage" {
```

```

name = "test_storage1"
description = "1234"
size = 50

storage_servers = [
  {
    id = "${oneandone_server.server.id}"
    rights = "RW"
  },
  {
    id = "${oneandone_server.server02.id}"
    rights = "RW"
  }
]
}

```

## » Argument Reference

The following arguments are supported:

- **name** - (Required) The name of the storage
- **datacenter** - (Optional) Location of desired 1and1 datacenter. Can be DE, GB, US or ES
- **description** - (Optional) Description for the shared storage
- **size** - (Required) Size of the shared storage
- **storage\_servers** (Optional) List of servers that will have access to the stored storage
  - **id** - (Required) ID of the server
  - **rights** - (Required) Access rights to be assigned to the server. Can be RW or R

## » oneandone\_\_ssh\_\_key

Manages SSH Keys on 1&1

## » Example Usage

```

resource "oneandone_ssh_key" "sshkey" {
  name = "test_ssh_key"
  description = "testing_ssh_keys"
}

```

## » Argument Reference

The following arguments are supported:

- **description** - (Optional) Description for the ssh key
- **name** - (Required) The name of the storage
- **public\_key** - (Optional) Public key to import. If not given, new SSH key pair will be created and the private key is returned in the response

## » oneandone\_\_vpn

Manages a VPN on 1&1

## » Example Usage

```
resource "oneandone_vpn" "vpn" {  
  datacenter = "GB"  
  name       = "%s"  
  description = "ttest descr"  
}
```

## » Argument Reference

The following arguments are supported:

- **datacenter** - (Optional) Location of desired 1and1 datacenter. Can be DE, GB, US or ES.
- **name** - (Required) The name of the VPN
- **description** - (Optional)
- **download\_path** - (Optional)
- **file\_name** - (Optional)