

# SoftLayer Provider

This provider is deprecated, and the service it interacts with has been discontinued.

The SoftLayer provider is used to manage SoftLayer resources.

Use the navigation to the left to read about the available resources.

**Note:** The SoftLayer provider is deprecated and not under active development. It will not work with many IBM Cloud resources and is not compatible with the new IBM Cloud APIs.

## Example Usage

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Here is an example that will setup the following:

- An SSH key resource.
- A virtual server resource that uses an existing SSH key.
- A virtual server resource using an existing SSH key and a Terraform managed SSH key (created as `test_key_1` in the example below).

Add the below to a file called `sl.tf` and run the `terraform` command from the same directory:

```

provider "softlayer" {
  username = ""
  api_key  = ""
}

# This will create a new SSH key that will show up under the \
# Devices>Manage>SSH Keys in the SoftLayer console.
resource "softlayer_ssh_key" "test_key_1" {
  name          = "test_key_1"
  public_key    = "${file("~/ssh/id_rsa_test_key_1.pub")}"

  # Windows Example:
  # public_key = "${file("C:\ssh\keys\path\id_rsa_test_key_1.pub")}"
}

# Virtual Server created with existing SSH Key already in SoftLayer \
# inventory and not created using this Terraform template.
resource "softlayer_virtual_guest" "my_server_1" {
  name              = "my_server_1"
  domain            = "example.com"
  ssh_keys          = ["123456"]
  image             = "DEBIAN_7_64"
  region            = "ams01"
  public_network_speed = 10
  cpu               = 1
  ram               = 1024
}

# Virtual Server created with a mix of previously existing and \
# Terraform created/managed resources.
resource "softlayer_virtual_guest" "my_server_2" {
  name              = "my_server_2"
  domain            = "example.com"
  ssh_keys          = ["123456", "${softlayer_ssh_key.test_key_1.id}"]
  image             = "CENTOS_6_64"
  region            = "ams01"
  public_network_speed = 10
  cpu               = 1
  ram               = 1024
}

```

You'll need to provide your SoftLayer username and API key, so that Terraform can connect. If you don't want to put credentials in your configuration file, you can leave them out:

```

provider "softlayer" {}

```

...and instead set these environment variables:

- **SOFTLAYER\_USERNAME:** Your SoftLayer username
- **SOFTLAYER\_API\_KEY:** Your API key

# softlayer\ssh\_key

Provides SSK keys. This allows SSH keys to be created, updated and deleted. For additional details please refer to API documentation ([http://sldn.softlayer.com/reference/datatypes/SoftLayer\\_Security\\_Ssh\\_Key](http://sldn.softlayer.com/reference/datatypes/SoftLayer_Security_Ssh_Key)).

## Example Usage

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```
resource "softlayer_ssh_key" "test_ssh_key" {  
  name      = "test_ssh_key_name"  
  notes     = "test_ssh_key_notes"  
  public_key = "ssh-rsa <rsa_public_key>"  
}
```

## Argument Reference

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The following arguments are supported:

- `name` - (Required) A descriptive name used to identify an SSH key.
- `public_key` - (Required) The public SSH key.
- `notes` - (Optional) A small note about an SSH key to use at your discretion.

The `name` and `notes` fields are editable.

## Attributes Reference

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The following attributes are exported:

- `id` - The ID of the new SSH key
- `fingerprint` - sequence of bytes to authenticate or lookup a longer SSH key.

# softlayer\virtual\_guest

Provides virtual guest resource. This allows virtual guests to be created, updated and deleted. For additional details please refer to API documentation ([http://sldn.softlayer.com/reference/services/SoftLayer\\_Virtual\\_Guest](http://sldn.softlayer.com/reference/services/SoftLayer_Virtual_Guest)).

## Example Usage

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Create a new virtual guest using the "Debian" image.

```
resource "softlayer_virtual_guest" "twc_terraform_sample" {
  name           = "twc-terraform-sample-name"
  domain         = "bar.example.com"
  image          = "DEBIAN_7_64"
  region        = "ams01"
  public_network_speed = 10
  hourly_billing = true
  private_network_only = false
  cpu            = 1
  ram           = 1024
  disks         = [25, 10, 20]
  user_data     = "{\"value\":\"newvalue\"}"
  dedicated_acct_host_only = true
  local_disk    = false
  frontend_vlan_id = 1085155
  backend_vlan_id = 1085157
}
```

Create a new virtual guest using block device template.

```
resource "softlayer_virtual_guest" "terraform-sample-BDTGroup" {
  name           = "terraform-sample-blockDeviceTemplateGroup"
  domain         = "bar.example.com"
  region        = "ams01"
  public_network_speed = 10
  hourly_billing = false
  cpu            = 1
  ram           = 1024
  local_disk    = false
  block_device_template_group_gid = "*****-*****-*****-*****-*****"
}
```

## Argument Reference

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The following arguments are supported:

- name | *string*
  - Hostname for the computing instance.
  - **Required**

- domain | *string*
  - Domain for the computing instance.
  - **Required**
- cpu | *int*
  - The number of CPU cores to allocate.
  - **Required**
- ram | *int*
  - The amount of memory to allocate in megabytes.
  - **Required**
- region | *string*
  - Specifies which datacenter the instance is to be provisioned in.
  - **Required**
- hourly\_billing | *boolean*
  - Specifies the billing type for the instance. When `true`, the computing instance will be billed on hourly usage, otherwise it will be billed on a monthly basis.
  - **Required**
- local\_disk | *boolean*
  - Specifies the disk type for the instance. When `true`, the disks for the computing instance will be provisioned on the host which it runs, otherwise SAN disks will be provisioned.
  - **Required**
- dedicated\_acct\_host\_only | *boolean*
  - Specifies whether or not the instance must only run on hosts with instances from the same account
  - *Default:* nil
  - *Optional*
- image | *string*
  - An identifier for the operating system to provision the computing instance with.
  - **Conditionally required** - Disallowed when `blockDeviceTemplateGroup.globalIdentifier` is provided, as the template will specify the operating system.
- block\_device\_template\_group\_gid | *string*
  - A global identifier for the template to be used to provision the computing instance.
  - **Conditionally required** - Disallowed when `operatingSystemReferenceCode` is provided, as the template will specify the operating system.
- public\_network\_speed | *int*
  - Specifies the connection speed for the instance's network components.
  - *Default:* 10
  - *Optional*

- `private_network_only` | *boolean*
  - Specifies whether or not the instance only has access to the private network. When true this flag specifies that a compute instance is to only have access to the private network.
  - *Default:* False
  - *Optional*
- `frontend_vlan_id` | *int*
  - Specifies the network VLAN which is to be used for the front end interface of the computing instance.
  - *Default:* nil
  - *Optional*
- `backend_vlan_id` | *int*
  - Specifies the network VLAN which is to be used for the back end interface of the computing instance.
  - *Default:* nil
  - *Optional*
- `disks` | *array*
  - Block device and disk image settings for the computing instance
  - *Optional*
  - *Default:* The smallest available capacity for the primary disk will be used. If an image template is specified the disk capacity will be provided by the template.
- `user_data` | *string*
  - Arbitrary data to be made available to the computing instance.
  - *Default:* nil
  - *Optional*
- `ssh_keys` | *array*
  - SSH keys to install on the computing instance upon provisioning.
  - *Default:* nil
  - *Optional*
- `ipv4_address` | *string*
  - Uses `editObject` call, template data defined here ([https://sldn.softlayer.com/reference/datatypes/SoftLayer\\_Virtual\\_Guest](https://sldn.softlayer.com/reference/datatypes/SoftLayer_Virtual_Guest)).
  - *Default:* nil
  - *Optional*
- `ipv4_address_private` | *string*
  - Uses `editObject` call, template data defined here ([https://sldn.softlayer.com/reference/datatypes/SoftLayer\\_Virtual\\_Guest](https://sldn.softlayer.com/reference/datatypes/SoftLayer_Virtual_Guest)).
  - *Default:* nil

- *Optional*
- `post_install_script_uri` | *string*
  - As defined in the `SoftLayer_Virtual_Guest_SupplementalCreateObjectOptions` ([https://sldn.softlayer.com/reference/datatypes/SoftLayer\\_Virtual\\_Guest\\_SupplementalCreateObjectOptions](https://sldn.softlayer.com/reference/datatypes/SoftLayer_Virtual_Guest_SupplementalCreateObjectOptions)).
  - *Default:* nil
  - *Optional*

## Attributes Reference

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The following attributes are exported:

- `id` - The ID of the virtual guest.