SoftLayer Provider

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 new as of Terraform 0.6.16. It is ready to be used but many features are still being added. If there is a SoftLayer feature missing, please report it in the GitHub repo.

Example Usage

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).

Example Usage

```
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

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

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).

Example Usage

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

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 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).
    - *Default*: nil
    - *Optional*

- `ipv4_address_private` | *string*
    - Uses `editObject` call, template data defined here (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).
- *Default*: nil
- *Optional*

Attributes Reference

The following attributes are exported:

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