**SOFTLAYER**

* SoftLayer gives you the highest performing cloud infrastructure available.
* One platform that takes data centers around the world that are full of the widest range of cloud computing options, and then integrates and automates everything.

**Global cloud platform**

* Only infrastructure solution with a common management interface and API across a unified architecture
* Mix and match bare metal servers, virtual server instances and turnkey private
* clouds, and manage them from a single control pane or API
* All deployed on-demand and provisioned automatically in real-time
* Triple-network architecture
* High-performance public network with transit from multiple tier-1 carriers
* Secure OOB management via VPN
* Private network for intra-application and inter-facility communications,
* access to shared services

Native IPv6 support

* Virtual racks for integrated management
* Complete suite of network services

Data Center & Pods

* Standardized, modular hardware configs
* Lower inventory carrying costs

SoftLayer Infrastructure Management System

* Bare metal & virtual server provisioning
* Integrated BSS/OSS
* Comprehensive network management 10
* Maximize asset utilization & profitability
* Increase provisioning flexibility
* Simplify capacity management
* Globally consistent service portfolio

Triple Network

* Proprietary network architecture
* Pod design allows customers grow across
* multiple racks or rows in the same layer 2/3 domain as needed.

**Functions of SoftLayer:**

• Automatic server deployment

• Service provisioning

• Reboots & reloads

• Ticketing

• Hardware configuration

• Software load

• DNS

• Network

• Storage

• Security scans

• Monitoring

**Advantages of SoftLayer:**

* Complete control,access, and transparency
* Seamless fault-tolerant, multi-site topography
* Single-tenant and multi-tenant environments
* Complete portfolio available on-demand in all data centers
* Improves customer control, reduces error, increases flexibility
* SoftLayer API provides 1,600 function calls to over 200 services
* Supports REST, SOAP & XML-RPC interfaces
* Enables full auto-scaling implementations
* Comprehensive documentation, libraries and support

**Installation steps:**

## Using Pip

Install via pip:$ pip install softlayer

## Ubuntu

For Ubuntu 14.04, official system packages are available:

$ sudo apt-get install python-softlayer

# Configuration File

The SoftLayer API bindings load your settings from a number of different locations.

* Input directly into SoftLayer.Client(...)
* Enviorment variables (SL\_USERNAME, SL\_API\_KEY)
* Config file locations (~/.softlayer, /etc/softlayer.conf)
* Or argument (-C/path/to/config or –config=/path/to/config)

The configuration file is INI-based and requires the *softlayer* section to be present. The only required fields are *username* and *api\_key*. You can optionally supply the *endpoint\_url* as well. This file is created automatically by the *config setup* command detailed here: [Configuration Setup](https://softlayer-api-python-client.readthedocs.org/en/latest/cli/#config-setup).

## Accessing the API

A SoftLayer client is stood up for every command and is available envivironment.Environment.client. The example below shows how to make a simple API call to the SoftLayer\_Account::getObject.