## Introduction to

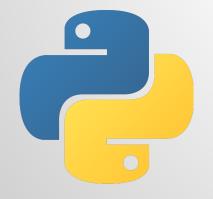


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SaltStack is extremely fast and scalable systems and configuration management software for predictive orchestration, cloud and data center automation, server provisioning, application deployment and more.

- Make sure that a machine is in the desired state
- 2. Remotely for all your machines (master-minions)









### **Salt States**

- 1. Define the properties of the state
- 2. Transition your system to the defined state

- 3. Get a report on:
  - changed
  - unchanged
  - failed

#### Salt States - Hello Web

```
/srv/salt/top.sls
base:
    '*':
    - helloweb
```

```
/srv/salt/helloweb.sls

nginx:
    pkg.installed

/etc/nginx/sites-enabled/helloweb:
    file.managed:
        - source: salt://helloweb.html
```

```
/srv/salt/helloweb.html
<!doctype html>
<html><body><h1>Hello Web</h1></body></html>
```

```
# salt-call --local state.highstate
```

# salt-call --local state.sls helloweb

### Salt States - Report

Result: True

```
root@helloweb:/srv/salt# salt-call --local state.sls helloweb
[WARNING ] Although 'dmidecode' was found in path, the current user cannot execute it. Grains
[WARNING ] Although 'dmidecode' was found in path, the current user cannot execute it. Grains
ΓINFO
        l Loading fresh modules for state activity
        | Fetching file from saltenv 'base', ** done ** 'helloweb.sls'
[INFO
[INFO
        Running state [nginx] at time 16:30:06.365206
        | Executing state pkg.installed for nginx
[INFO
[INFO
        Executing command "dpkg-query --showformat='${Status} ${Package} ${Version} ${Archi
[INFO
        Package nginx is already installed.
        [] Completed state [nginx] at time 16:30:06.662521
[INFO
[INFO
        Running state [/var/www/html/index.html] at time 16:30:06.662770
[INFO
        | Executing state file.managed for /var/www/html/index.html
        ] Fetching file from saltenv 'base', ** done ** 'helloweb.html'
[INFO
[INFO
        | File changed:
New file
[INFO
        Completed state [/var/www/html/index.html] at time 16:30:06.670372
local:
        ID: nginx
   Function: pkg.installed
```

```
local:
        ID: nginx
  Function: pkg.installed
    Result: True
   Comment: Package nginx is already installed.
   Started: 16:30:06.365206
  Duration: 297.315 ms
   Changes:
        ID: /var/www/html/index.html
  Function: file.managed
    Result: True
   Comment: File /var/www/html/index.html updated
   Started: 16:30:06.662770
  Duration: 7.602 ms
   Changes:
            diff:
                New file
            mode:
                0644
Summary
Succeeded: 2 (changed=1)
Failed: 0
Total states run:
```

] Completed state [/var/www/html/index.html] at time 16:30:06.670372

[INFO

### Salt States - Batteries included

- > File present
- > Line present
- Package installed
- Git repo cloned
- > Mercurial
- Service running
- > Virtualenvs
- > Pip dependencies
- Linux Containers

- Network interfaces
- > iptables
- > Bower
- > HTTP
- > LVM
- PostgreSQL
- Supervisord
- > Chef
- **>** ...

Full list of builtin state modules

# Demo