Salt

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Ogden Area Linux User Group

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Getting started

Overview

"Remote execution manager"

Installation

```
easy_install \
    https://github.com/downloads/thatch45/\
    salt/salt-0.8.8.tar.gz
```

CLI tools

- `salt`

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- salt
- salt-master

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- `salt`
- `salt-master`
- `salt-minion`

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- salt
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- salt-minion
- salt-key
- salt-cp
- salt-call

Using minions

Specifying targets

- `salt 'host*' test.ping`

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- `salt -E 'host[1-3]' test.ping`

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- `salt -G 'os:Ubuntu' test.ping`
    - `salt '*' grains.items`

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- `salt -E 'host[1-3]' test.ping`
- `salt -L host1,host2,host3 test.ping`
- `salt -G 'os:Ubuntu' test.ping`
    - `salt '*' grains.items`
- `salt '*' cmd.run,test.ping,test.echo 'whoami',,foo`

Specifying targets

- `salt 'host*' test.ping`
- `salt -E 'host[1-3]' test.ping`
- `salt -L host1,host2,host3 test.ping`
- `salt -G 'os:Ubuntu' test.ping`
  - `salt '*' grains.items`
- `salt '*' cmd.run,test.ping,test.echo 'whoami',,foo`
- `salt -X cmd.retcode 'which zsh' test.ping`

Running functions (modules)

- `salt '*' sys.doc | less`

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- `salt '*' sys.doc | less`
- `salt '*' sys.doc test.ping`

Getting the results (returners)

- Redis

Enforcing state (states)

```
apache2:
    pkg:
      - installed
    service:
      - running
      - require:
        - pkg: apache2
```

Enforcing state (renderers)

```
{% for item in 'apache2','postgresql' %}
{{ item }}:
    pkg:
        - installed
{{ item }}:
    pkg:
      - installed
    service:
      - running
      - require:
        - pkg: {{ item }}
{% endfor %}
```

The future of Salt

The Salt stack

- Remote execution

The Salt stack

- Remote execution
- Configuration management

The Salt stack

- Remote execution
- Configuration management
- Monitoring

The Salt stack

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- Stats

The Salt stack

- Remote execution
- Configuration management
- Monitoring
- Stats
- Provisioning/automating cloud servers