Installing a Salt Master

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Overview

Installing the Salt Master

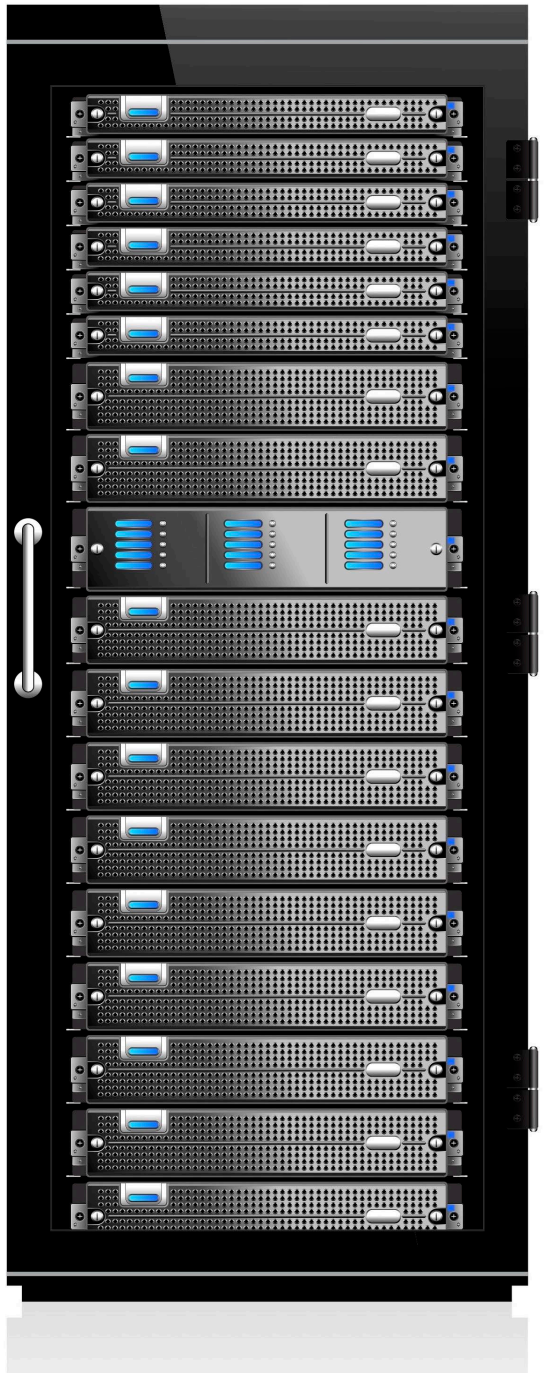
OS repositories

- May lag released version
- https://repo.saltstack.com

Bootstrap script

- https://bootstrap.saltstack.com

How to keep salt versions consistent across all platforms



Master runs on *nix

- Mac Master not officially supported
- Mac Minion fully supported

Use the default Python 3 unless supporting legacy Python 2.x Minions

Always update the Master
to a newer version
before updating Minions

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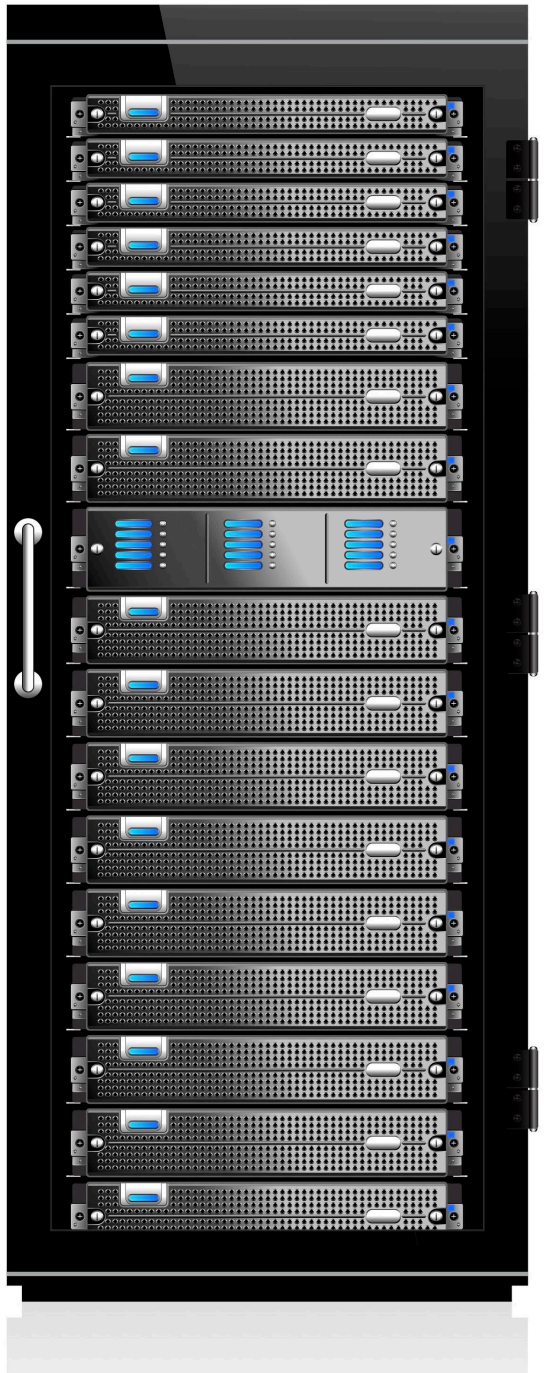
***The Master can upgrade the Minions with Salt States**



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Use the default Python 3 unless supporting legacy Python 2.x Minions

Private repositories enable control over the deployed version

Bootstrap script support selection of a specific version

Installing A Specific Version

Bootstrap Script Installation

```
bash $ sudo install-salt.sh -M -P git v3000.3


# Install a much older version with old Python

bash $ sudo install-salt.sh -M -P -x python2.7 git
v2019.2.5
```

Normal Master operation

- Master firewall rules
  - TCP ports 4505 and 4506 open

Salt-SSH Master operation

- Minions need an SSH port open, accessible by the Master

No other open ports are required

Salt Services

Package Management

File Management

Abstraction for OS-native tools

- Dependency management

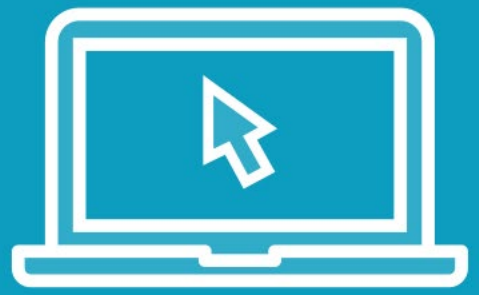
Files stored on the Master and/or Git

- Use version control for configuration and for files deployed to Minions

Service start/stop/enable/disable

Everything should be safely stored in a secure version control system.

Demo



Installing the Salt Master

Bootstrap script

Generate encryption keys

- Protects all communication and control

File and directory structure on the Master

- Configuration data
- Files to copy to each Minion

Summary

Installed the Salt Master

- Specific version, if desired

Recorded the key signatures for comparison on each Minion

Created the basic folder structure on the Master for configuration files and Minion file storage