



ANSIBLE

# Why tools like Ansible?

- Every day the same routine:

- Customize OS
- Update packages
- Apply security patches
- Fine tune the configuration
- Manually deploy apps

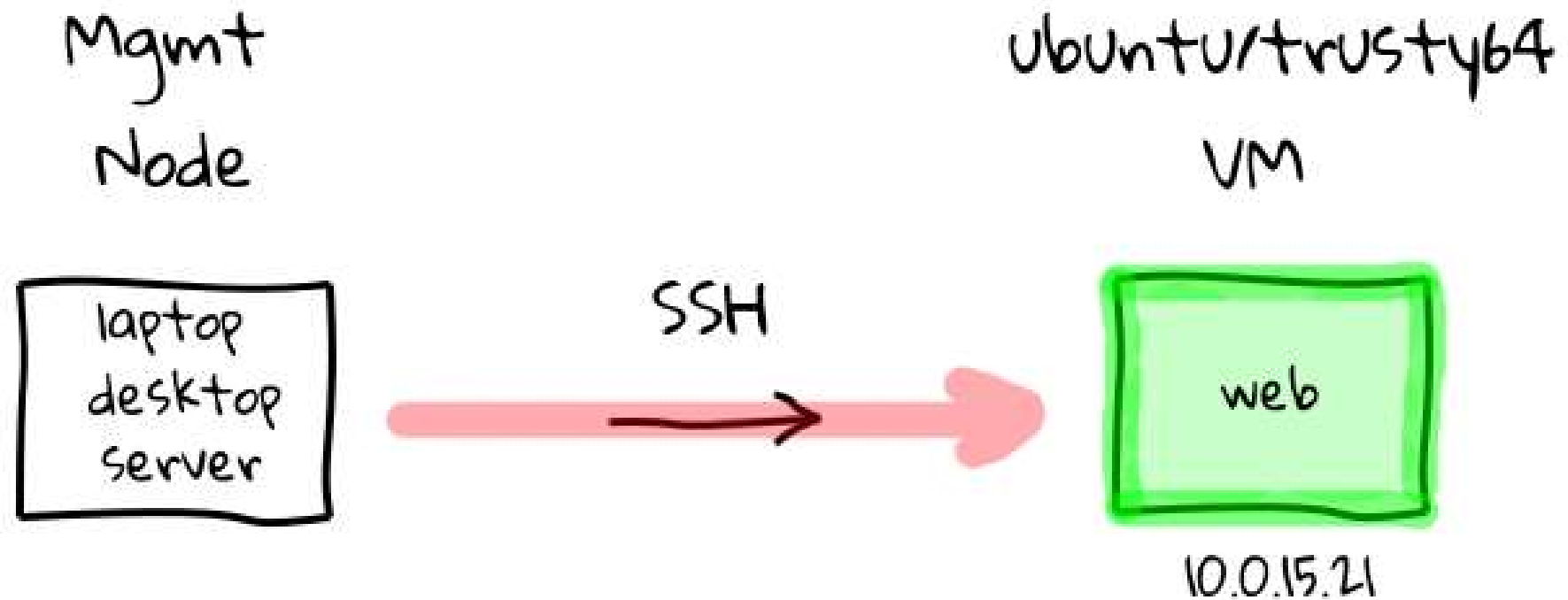


- All subject to

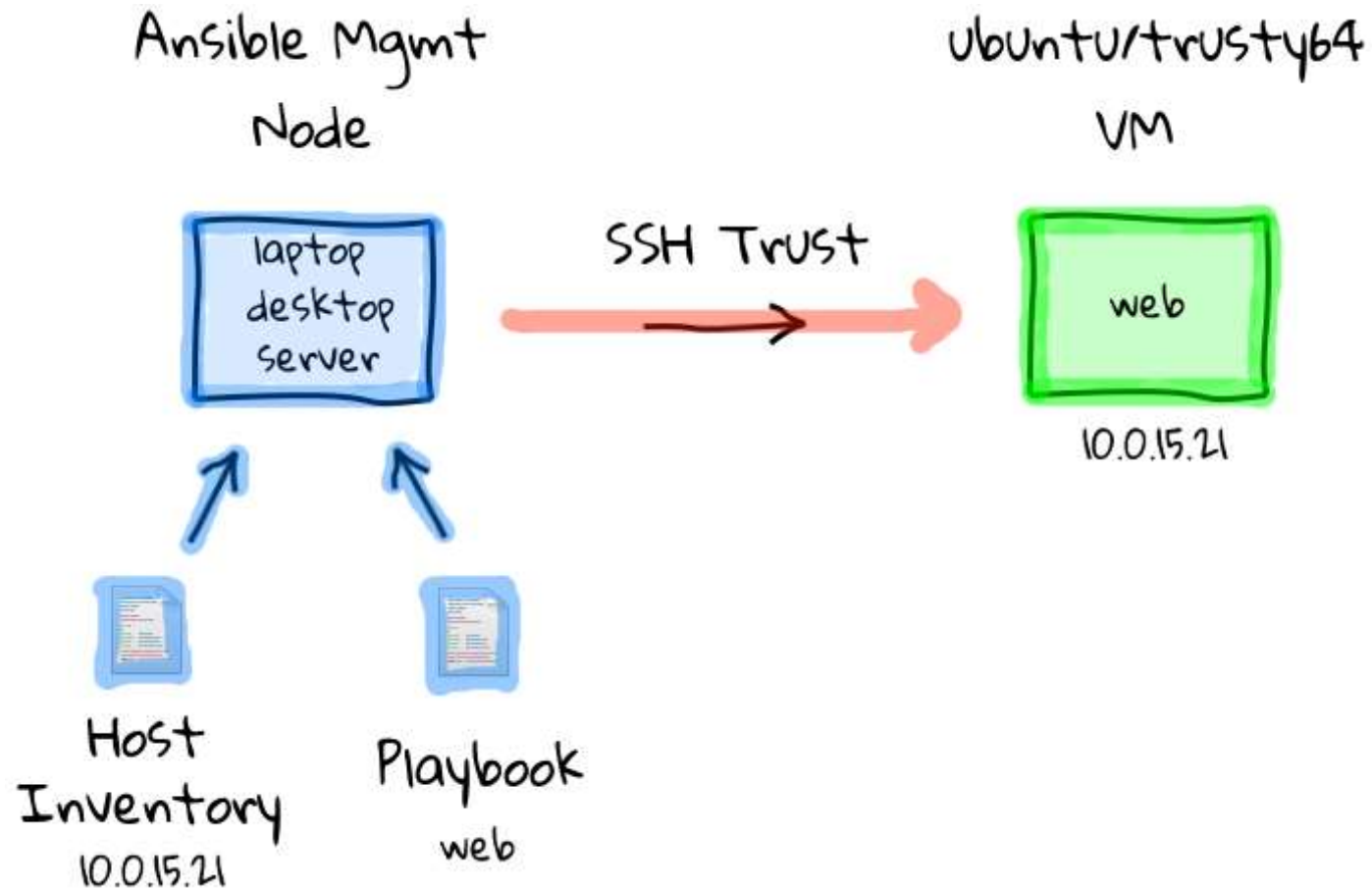
- Human failures
- Time consuming
- Repeatable task for multiple machines
- Lack of documentation



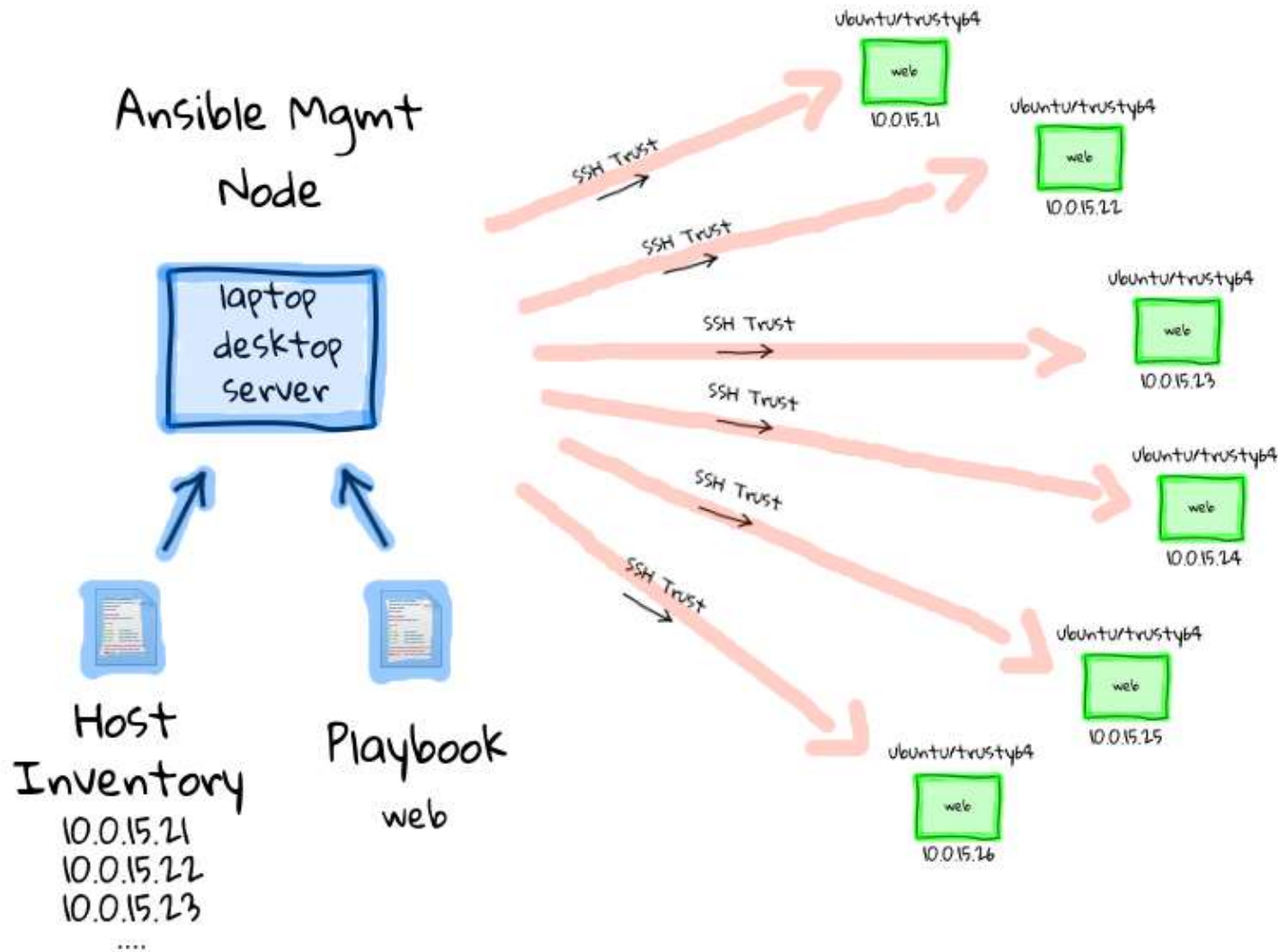
# Before Configuration Management



# With Configuration Management



# With Configuration Management



# Hosts Inventory

```
[loadbalancer]
haproxy-01.example.com
haproxy-02
10.0.15.15

[web]
web1
web2
10.0.15.21

[testing]
demo.example.com
```

# Playbooks

- Outline tasks that should be performed against hosts in the hosts inventory

```
---
- hosts: web
  sudo: yes

  tasks:

    - name: install nginx
      apt: name=nginx state=installed update_cache=yes

    - name: write our nginx.conf
      template: src=templates/nginx.conf.j2 dest=/etc/nginx/nginx.conf
      notify: restart nginx

    - name: deploy website content
      git: repo=https://github.com/jweissig/episode-47.git
          dest=/usr/share/nginx/html/
          version=release-0.01

    - name: start ntp
      service: name=nginx state=started

  handlers:

    - name: restart nginx
      service: name=nginx state=restarted
```

# Hands-On





# Ansible vs Chef vs Puppet

	Chef	Puppet	Ansible	SaltStack	Terraform
Code	Open Source	Open Source	Open Source	Open Source	Open Source
Cloud	All	All	All	All	All
Type	Config Mgmt	Config Mgmt	Config Mgmt	Config Mgmt	Orchestration
Infrastructure	Mutable	Mutable	Mutable	Mutable	Immutable
Language	Procedural	Declarative	Procedural	Declarative	Declarative
Architecture	Client/Server	Client/Server	Client-Only	Client/Server	Client-Only

*Thanks*