

Ansible for Everything Else



redhat.

ANSIBLE

PRESENTED BY
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About Me

- Red Hat PS Practice Architect at World Wide Technology
- 15 years Sysadmin'ing around with Unix/Linux
- Started automating Operations in 2009 (ish)
- Not a programmer/developer
- Main focus areas are OpenShift Infrastructure, Ansible Tower, and CloudForms



Questions: PSDevelopment@wwt.com



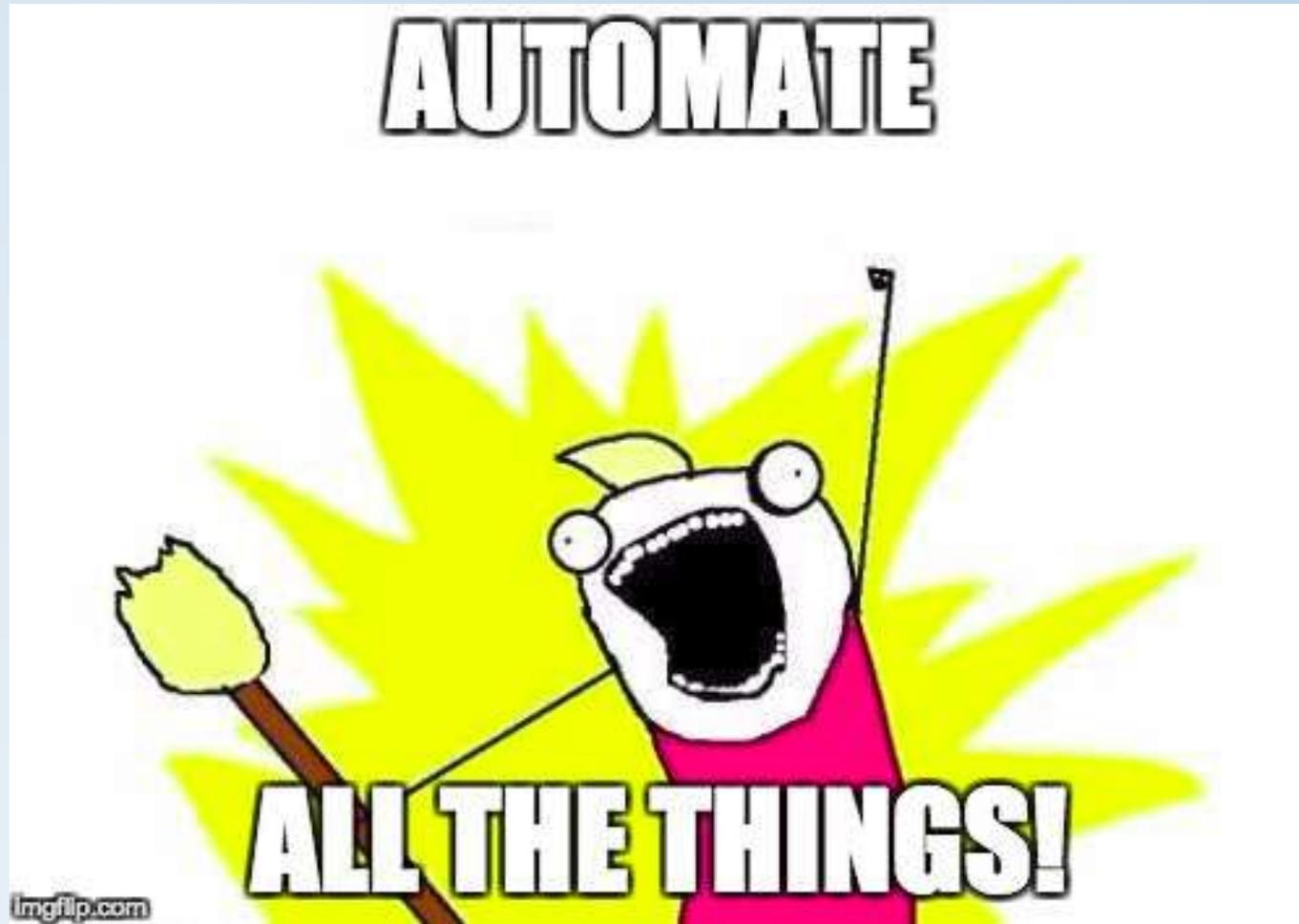
About World Wide Technology

- Red Hat Business Transformation Partner of the Year 2018
- Red Hat Premier Partner
- F5 Platinum Partner
- Cisco super premier awesome gold biggest partner ever in the world. (Gold)



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Why I'm here today:



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My journey with Automation

- Worked for a large payment processor
- Automated the Linux builds
- Everything outside of Linux was manual
- Outages we commonplace



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Why should we automate?

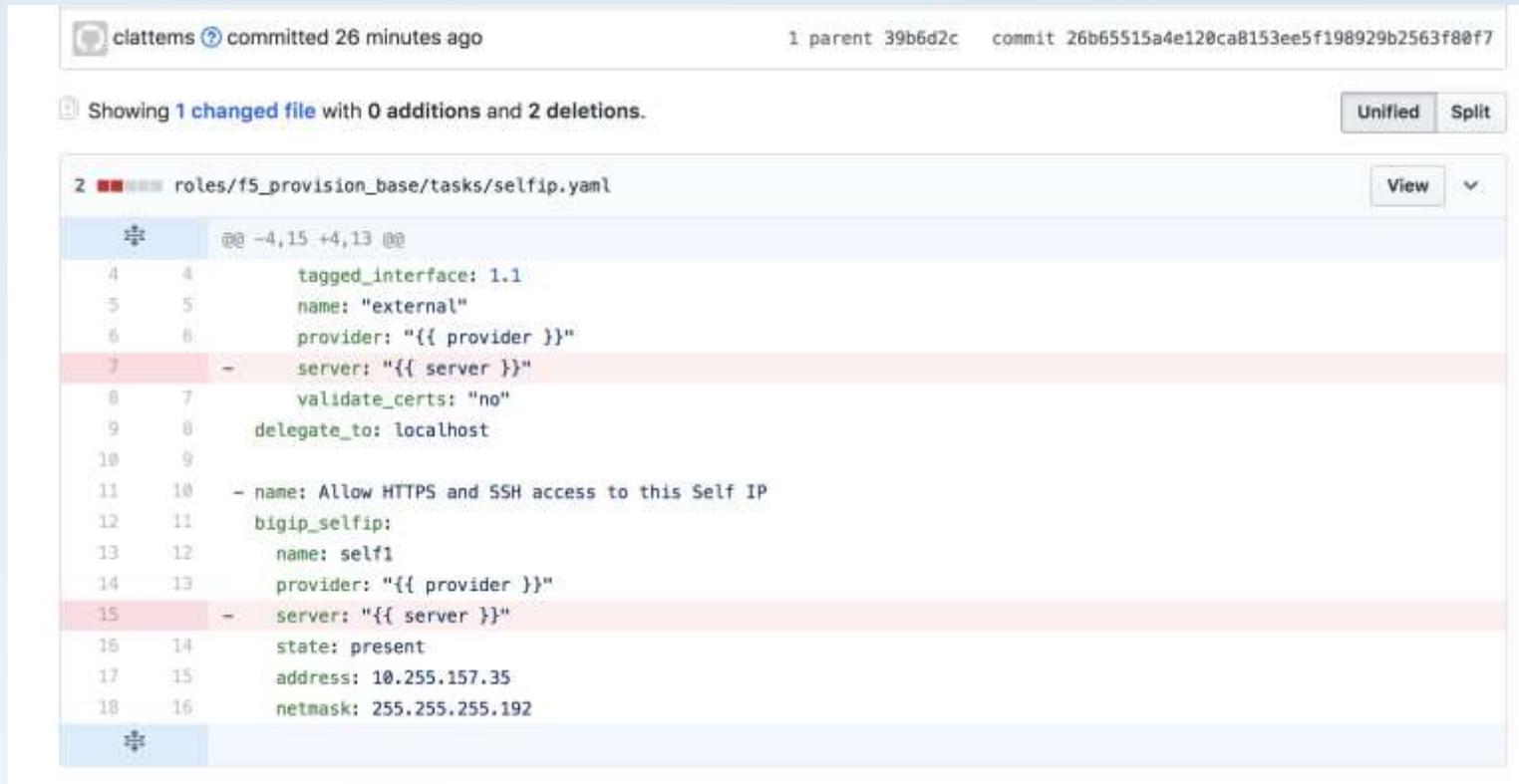
- You shouldn't be doing anything manual that can be automated
- Less human errors
- Leads to a more stable environment
- Get your life back



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How do you get started?

- VCS
- Start Small, Win Big
- Paired "Programming"
- Keep building, doing more and more challenging tasks



The screenshot shows a Git commit diff view for a file named `roles/f5_provision_base/tasks/selfip.yaml`. The commit is by `clattems` and was committed 26 minutes ago. The diff shows two deletions (lines 7 and 15) and several additions (lines 4-6, 8-10, 11-14, 16-18). The deleted lines are highlighted in red, and the added lines are highlighted in green.

```
@@ -4,15 +4,13 @@
4 4     tagged_interface: 1.1
5 5     name: "external"
6 6     provider: "{{ provider }}"
7 -    server: "{{ server }}"
8 7     validate_certs: "no"
9 8     delegate_to: localhost
10 9
11 10    - name: Allow HTTPS and SSH access to this Self IP
12 11      bigip_selfip:
13 12        name: self1
14 13        provider: "{{ provider }}"
15 -    server: "{{ server }}"
16 14      state: present
17 15      address: 10.255.157.35
18 16      netmask: 255.255.255.192
```

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Why Ansible

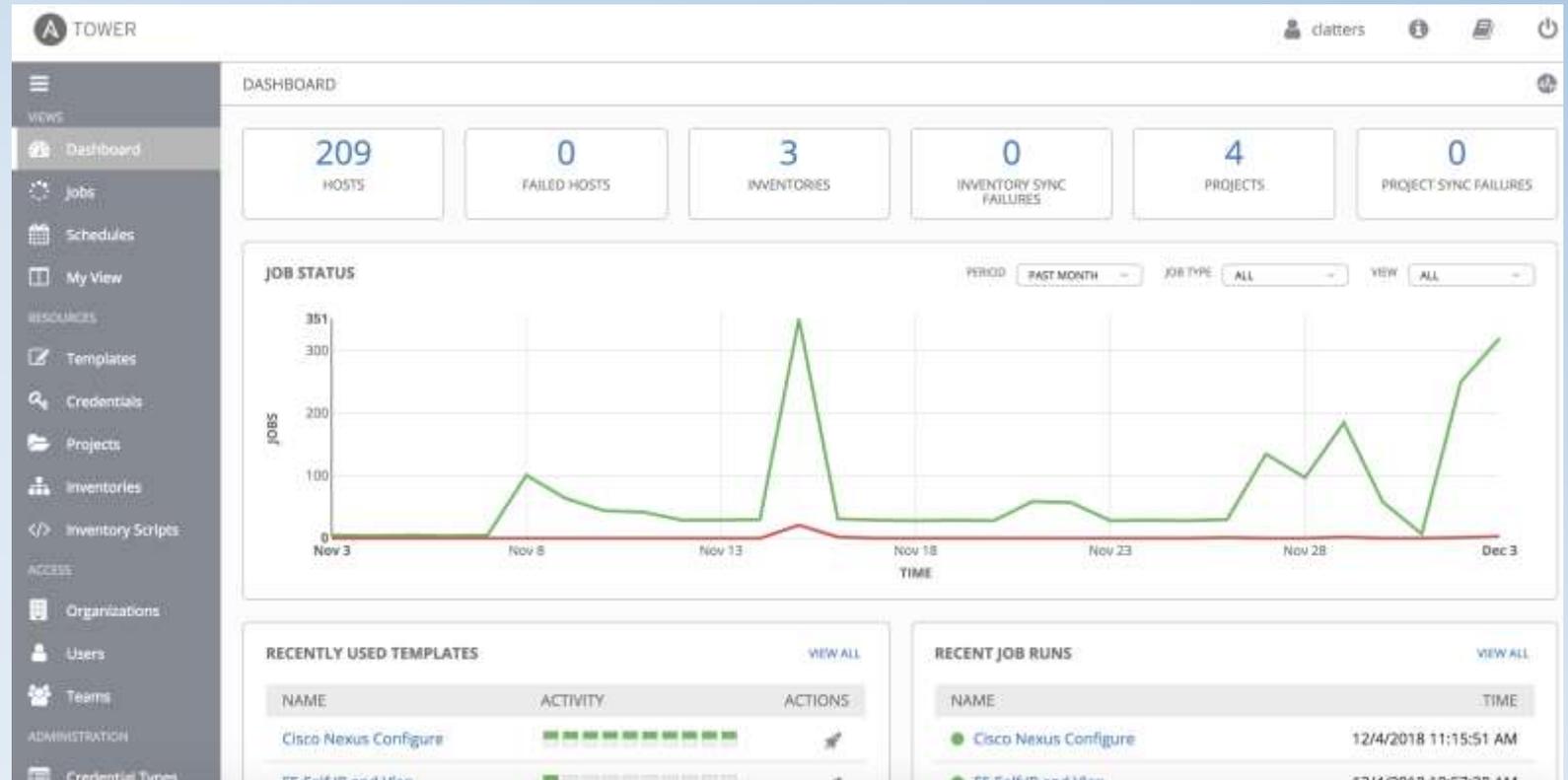
- Common language
- No need for agents
- Utilizes common ports that are more than likely already open

```
1 ---
2 [- name: Collect all BIG-IP facts
3 [- bigip_device_facts:
4     provider: "{{ provider }}"
5 [- gather_subset:
6     - interfaces
7     delegate_to: localhost
8     register: facts
9
```

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Why Tower

- The API!
- RBAC
- Reporting
- VCS Integration
- GUI
- Templates and Workflows
- Surveys and Forms



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What else can Ansible automate besides Linux?



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Last slide

- Let's do a demo, and take the Cisco NXOS and F5 modules for a little test drive



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