WildFly Day One operations with Ansible Automation

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About Me



- Open Source Developer since 2005 (Java & Automation)
 - ESME Sudria (Engineer) 2004 (OpenVMS !!!)
 - Atos Origin Open Source Center (JBoss, Linux)
 - Number Four AG (Puppet & AWS)
 - Red Hat
 - Consultant then Architect (2011 2014)
 - Sustain Developer on JBoss EAP (2014 2019)
 - Led developer on *Ansible for Runtimes* (2019 présent)
- Technical writer for <u>GNU/Linux Magazine France</u> (20 years) and <u>Red Hat</u> <u>Developer Blog</u> (10 years)
- You might also know for my Shadowrun writing or my (Open Source :)) band Poulp (music is also Open Source :)).





- Last Time on Wildfly Mini Conf...
- Crash Course on Ansible Playbooks
- Ansible Automation Platform Demo
- ► Q&A

Last Time On... Wildfly Mini Conf



Last Time On....



- During the first <u>Mini Conference</u>, we discussed how to automate the deployment of Wildfly using <u>Ansible</u>, an Open Source Automation Solution.
 - Also why Ansible is an awesome solution for Wildfly & Java software!
 - And we explained the syntax of Ansible's **playbooks**
- During the <u>second Mini Conference</u>, we demonstrate how to use

<u>Event-Driven Ansible (EDA)</u> to implement remediation strategy

- ... like automatically restart Wildfly if its payload becomes unreachable.
- Today, we'll go one step farther, by looking how to use <u>Ansible Automation</u>
 <u>Platform</u> (a WebUI for Ansible) to manage Wildfly for Day One operations.

An Ansible Crash Course (in 4 slides !)





nginx.yml

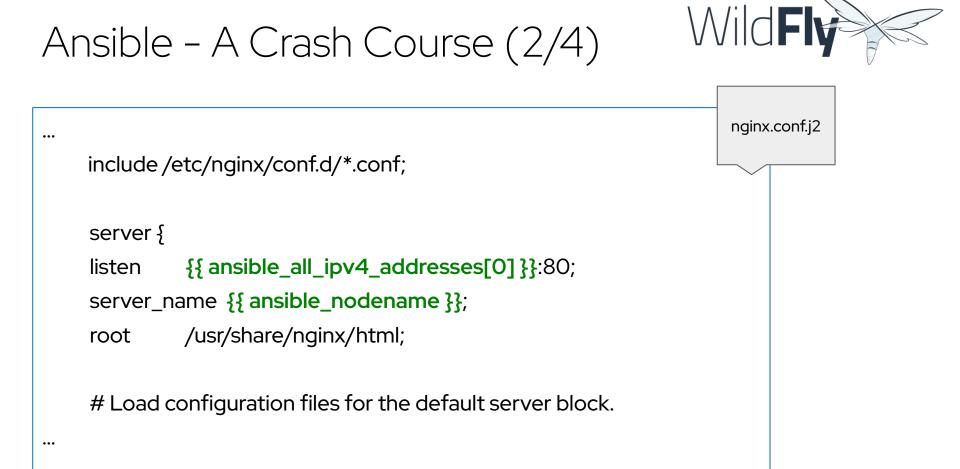
Ansible - A Crash Course (1/4)

- name: "Setup and maintain a Nginx instance" hosts: webservers tasks:
 - name: "Ensure nginx package is installed" ansible.builtin.package:

name: nginx state: present **notify**: "Ensure nginx is running"

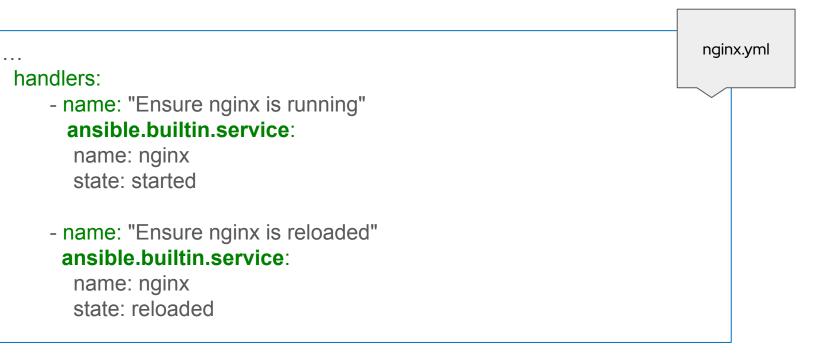
 name: "Deploy nginx config" ansible.builtin.template:

src: templates/nginx.conf.j2
dest: /etc/nginx/nginx.conf
notify: "Ensure nginx is reloaded"



Ansible - A Crash Course (3/4)





Ansible - A Crash Course (4/4)



- ► There are a lot **more** modules!
- Vars can be overridden and their value manipulated (with filters)
- Ansible can be **extended** through collection
 - playbooks like plugins (python) can be bundled into collections and distributed
 - Red Hat supports a set of collections for its customers
 - Including a collection for JBoss EAP
 - name: Install multiple wildfly services

hosts: all

collections:

- middleware_automation.wildfly

Ansible Automation Platform Demo







Q & A



WildFly https://wildfly.org

A powerful, modular, & lightweight application server that helps you build amazing applications.





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