

A stylized landscape illustration featuring layered, geometric mountain peaks in shades of blue and grey. A vibrant rainbow with red, orange, and yellow bands is positioned on the left side, partially obscured by the mountains. The background is a solid dark teal color.

# 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 [GNU/Linux Magazine France](#) (20 years) and [Red Hat Developer Blog](#) (10 years)
- ▶ You might also know for my *Shadowrun* writing or my (Open Source :) ) band [Poulp](#) (music is also Open Source :)

# Agenda



- ▶ *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 [Mini Conference](#), we discussed how to automate the deployment of Wildfly using [Ansible](#), 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 [second Mini Conference](#), we demonstrate how to use [Event-Driven Ansible \(EDA\)](#) 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 [Ansible Automation Platform](#) (a WebUI for Ansible) to manage Wildfly for Day One operations.



# An Ansible Crash Course (in 4 slides !)

# Ansible - A Crash Course (1/4)



```
---
- name: "Setup and maintain a Nginx instance"
  hosts: webserver
  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"
```

nginx.yml

## Ansible - A Crash Course (2/4)



nginx.conf.j2

```
...  
    include /etc/nginx/conf.d/*.conf;  
  
    server {  
        listen    {{ ansible_all_ipv4_addresses[0] }}:80;  
        server_name {{ ansible_nodename }};  
        root      /usr/share/nginx/html;  
  
        # Load configuration files for the default server block.  
    }  
...
```



# Ansible - A Crash Course (3/4)



nginx.yml

...

## handlers:

- **name:** "Ensure nginx is running"  
**ansible.builtin.service:**  
name: nginx  
state: started
- **name:** "Ensure nginx is reloaded"  
**ansible.builtin.service:**  
name: nginx  
state: reloaded

# 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





A stylized landscape illustration featuring a dark green background. In the foreground, there are several overlapping, layered mountain peaks in shades of grey and blue. On the left side, a multi-colored rainbow (red, orange, yellow, red) is partially visible, appearing to rise behind the mountains.

WildFly  
<https://wildfly.org>

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





Thanks!

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