

**IBM MQ – Ansible**



**bpi**france

**REX : Patching and setup MQ & OS  
with Ansible**



**Groupe MQ – Jean-Victor BOYA – November 2023**



# SOMMAIRE

**Patching and Setup (VMs)**

**Explo / Démo**

**Next**

# Use case

## at Bpifrance

- Patching multi OS (RHEL Linux and Windows Server)
  - Linux : yum update
  - Windows : Winrm, reboot, time saving
- Middleware update (MQ, WAS)
  - IBM Fixpack
- Server Provisioning
  - Installations
  - Binaries Copy/Extract

# Ansible benefits ++

## RUN

- Avoid manual configuration, IAC
- Quicky and easily deploy, Templating
- Migrations

## Workload and Scheduling

- Multi task scheduling (ex : tuning OS, setup, configuration, start, manage)
- Idempotence

## Collaborate

- Delegate to another Colleague or Team
- Administration
- Agent less => easy to scale and add new VMs

# Prerequisites

## SSH / Python

- keygen, copy public key
- pip install



## Templating

- Jinja2
- can be use standalone

## Admin

- sudoer / local admin
- become

## Security

- Ansible Vault
- Encrypted playbook
- Git

## Inventory

- Hostname groups
- Group by env or by Datacenter

## Exploration / Démo

```
.
├── bin
├── conf
├── files
├── inventory
├── log
├── play
├── readme.md
└── roles
```

```
ansible-playbook -i INVENTORY -e ENV playbook_file > log
```

# • Next ?

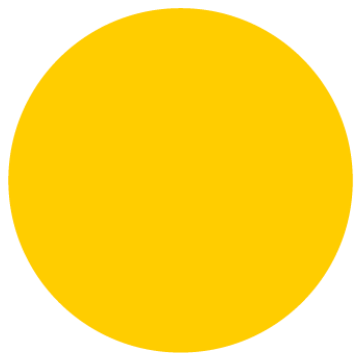
- New MQ roles provided by IBM : [ibm.biz/mq-ansible](https://ibm.biz/mq-ansible)

<https://github.com/ibm-messaging/mq-ansible/blob/main/playbooks/ibmmq.yml>

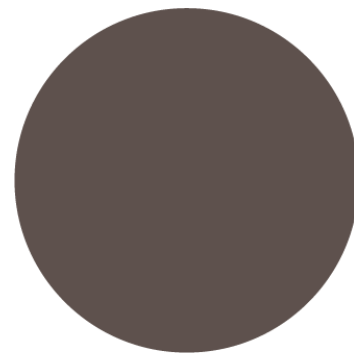
<https://community.ibm.com/community/user/integration/blogs/gabriel-marte-blanco/2023/04/24/automating-ibm-mq-installation-and-configuration-w>

- AWX :
  - Open Source upstream project of Ansible Automation Controller (formerly Ansible Tower)
  - GUI
  - Better collaboration within an admin team
- Jenkins Plugin for Ansible : <https://plugins.jenkins.io/ansible/>
  - CI /CD
  - Slave ansible

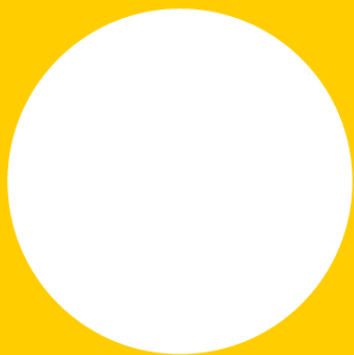




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