Ansible on IBM Power
Tips and Tricks

Common Europe Congress 2026, Lyon

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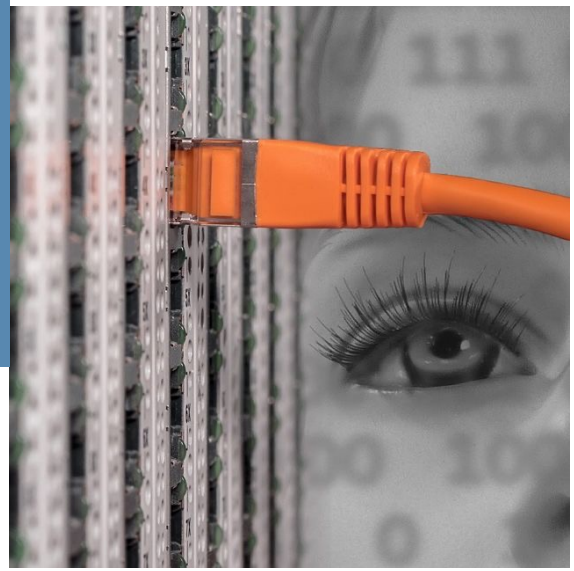
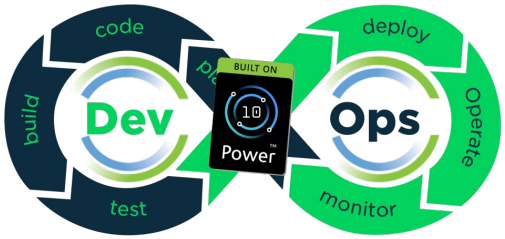
eNFence



About me



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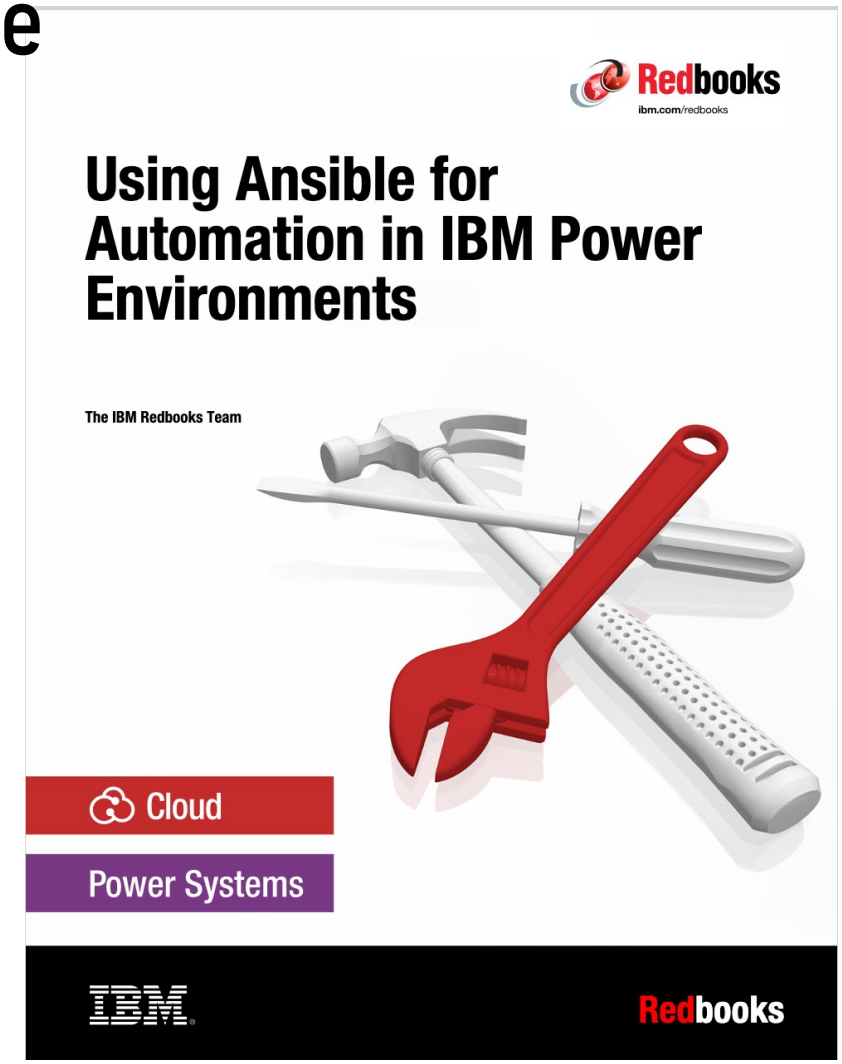
About Ansible



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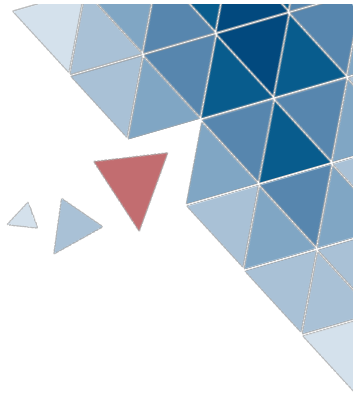
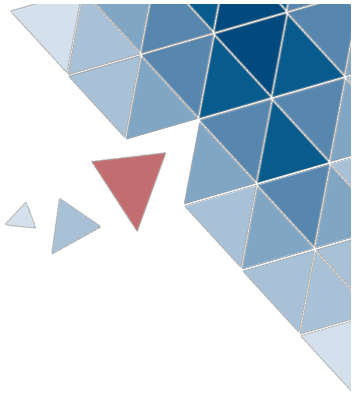
About IBM Power



Is IBM Power Ansible-ready?



- Linux – 100%
- AIX 7.3 – Python is there! 7.2, 7.1 – Use AIX Toolbox, UTF-8 locale!
- VIOS 4.1 – Python is there! Oh, really?
- VIOS 3.1 – yes, we can!
- VIOS 2.2 – do you still have it???
- IBM i – Install Python!
- HMC – is an appliance! Special modules!
- PowerVC – OpenStack compatible

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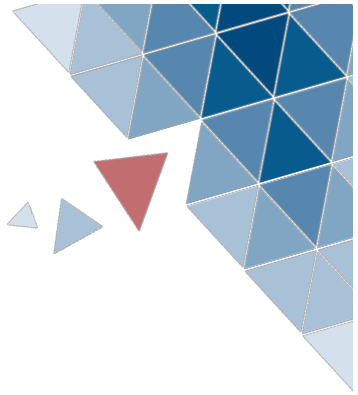
Linux



- Create user for Ansible
  - useradd -m -s /bin/bash -c 'Ansible User‘ -d /home/ansible ansible
- Set password for the user
  - passwd ansible
- Allow the user to execute commands under root
  - echo 'ansible ALL=(ALL) NOPASSWD: ALL' > /etc/sudoers.d/ansible

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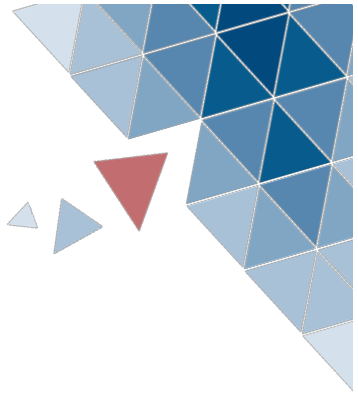
AIX



- Create user ansible
  - mkuser pgrp=staff home=/home/ansible gecos="Ansible User" ansible
- Set password for the user
  - passwd ansible
- Clear password flags
  - pwdadm -c ansible
- Install sudo on AIX
  - dnf install sudo_noldap
- Allow the user to execute commands under root
  - echo 'ansible ALL=(ALL) NOPASSWD: ALL' > /etc/sudoers.d/ansible

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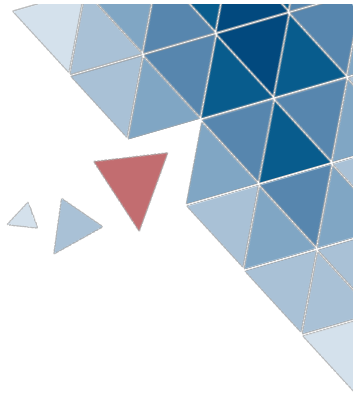
IBM i



- Create user ansible
  - CRTUSRPRF USRPRF(ANSIBLE) USRCLS(*SECOFR) PASSWORD(ansible) TEXT('Ansible User') HOMEDIR('/home/ansible')
- Create home directory for the user
  - STRQSH CMD('mkdir /home/ansible')
- Set permissions on home directory
  - STRQSH CMD('chmod 0700 /home/ansible')
- Start SSH server
  - STRTCPSVR *SSHD

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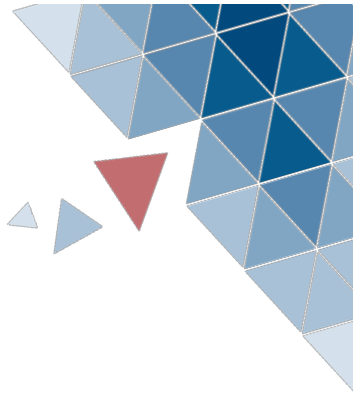
Easy?...



- Python?
- sudo?
- su?
- ksu?
- RBAC?

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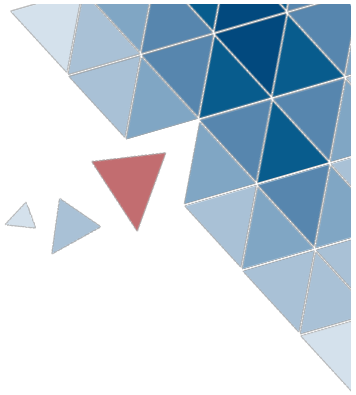
We can manage our servers! But how?



- Let‘s install Ansible
- Oh, should we do it at all?
- If we should, where should we install it?

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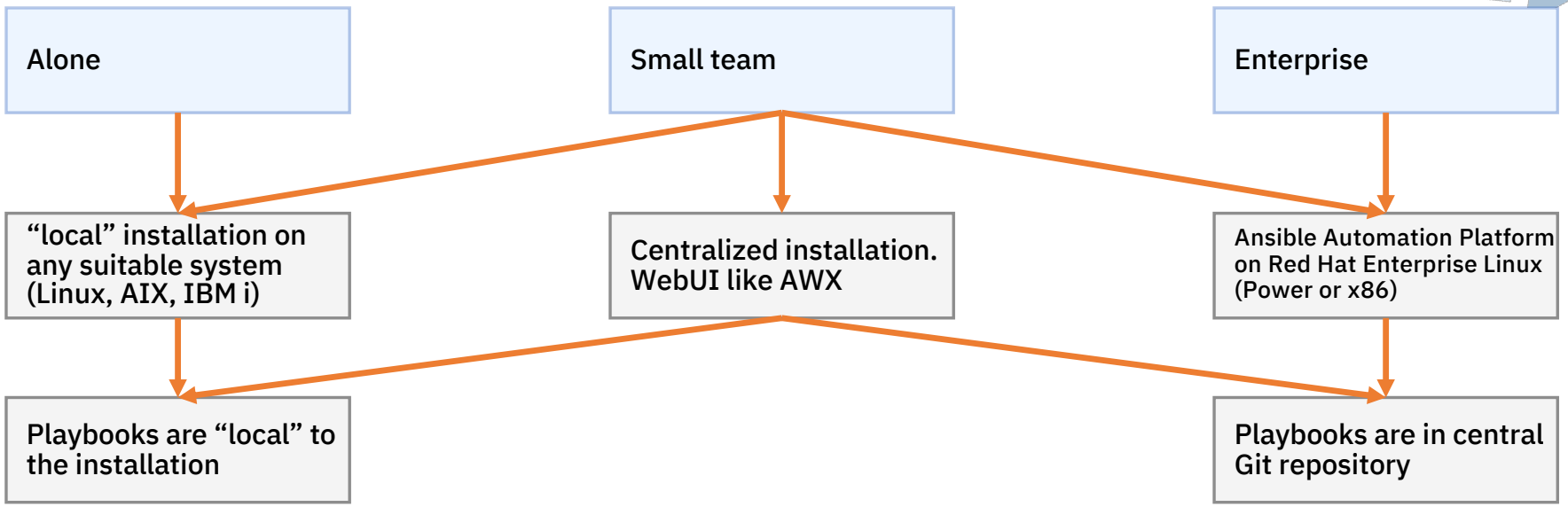
Do I work alone or in a team?



Installing Ansible

Linux Red Hat

```
$ dnf install ansible-core
```

AIX

```
$ /opt/freeware/bin/dnf install ansible
```

IBM i

```
$ yum install ansible
```

What if I want to have a newer version?

```
[ansible@rhel97 ~]$ curl -fsSL https://pyenv.run | bash
Cloning into '/home/ansible/.pyenv'...
remote: Enumerating objects: 1510, done.
remote: Counting objects: 100% (1510/1510), done.
remote: Compressing objects: 100% (739/739), done.
remote: Total 1510 (delta 918), reused 967 (delta 603), pack-reused 0 (from 0)
Receiving objects: 100% (1510/1510), 1.19 MiB | 29.02 MiB/s, done.
Resolving deltas: 100% (918/918), done.
Cloning into '/home/ansible/.pyenv/plugins/pyenv-doctor'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 11 (delta 1), reused 5 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (11/11), 38.72 KiB | 19.36 MiB/s, done.
Resolving deltas: 100% (1/1), done.
Cloning into '/home/ansible/.pyenv/plugins/pyenv-update'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 10 (delta 1), reused 6 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (10/10), done.
Resolving deltas: 100% (1/1), done.
Cloning into '/home/ansible/.pyenv/plugins/pyenv-virtualenv'...
remote: Enumerating objects: 66, done.
remote: Counting objects: 100% (66/66), done.
remote: Compressing objects: 100% (59/59), done.
Receiving objects: 100% (66/66), 46.00 KiB | 15.33 MiB/s, done.
remote: Total 66 (delta 10), reused 25 (delta 0), pack-reused 0 (from 0)
Resolving deltas: 100% (10/10), done.

WARNING: seems you still have not added 'pyenv' to the load path.

# Load pyenv automatically by appending
# the following to
# ~/.bash_profile if it exists, otherwise ~/.profile (for login shells)
# and ~/.bashrc (for interactive shells) :

export PYENV_ROOT="$HOME/.pyenv"
[[ -d $PYENV_ROOT/bin ]] && export PATH="$PYENV_ROOT/bin:$PATH"
eval "$(pyenv init - bash)"

# Restart your shell for the changes to take effect.

# Load pyenv-virtualenv automatically by adding
# the following to ~/.bashrc:

eval "$(pyenv virtualenv-init -)"
```



```
export PYENV_ROOT="$HOME/.pyenv"
[[ -d $PYENV_ROOT/bin ]] && export PATH="$PYENV_ROOT/bin:$PATH"
eval "$(pyenv init - bash)"
```

```
[ansible@rhel97 ~]$ pyenv versions
* system (set by /home/ansible/.pyenv/version)
[ansible@rhel97 ~]$ pyenv install -l | grep ' 3.12'
  3.12.0
  3.12-dev
  3.12.1
  3.12.2
  3.12.3
  3.12.4
  3.12.5
  3.12.6
  3.12.7
  3.12.8
  3.12.9
  3.12.10
  3.12.11
  3.12.12
[ansible@rhel97 ~]$ pyenv install 3.12.12
Downloading Python-3.12.12.tar.xz...
-> https://www.python.org/ftp/python/3.12.12/Python-3.12.12.tar.xz
Installing Python-3.12.12...
Installed Python-3.12.12 to /home/ansible/.pyenv/versions/3.12.12
[ansible@rhel97 ~]$ pyenv versions
* system (set by /home/ansible/.pyenv/version)
  3.12.12
[ansible@rhel97 ~]$ pyenv global 3.12.12
[ansible@rhel97 ~]$ pyenv versions
  system
* 3.12.12 (set by /home/ansible/.pyenv/version)
[ansible@rhel97 ~]$ python --version
Python 3.12.12
```

Installing Ansible in a venv

```
[ansible@rhel97 ~]$ python -mvenv ansible220
[ansible@rhel97 ~]$ source ansible220/bin/activate
((ansible220) ) [ansible@rhel97 ~]$ pip3 install ansible
Collecting ansible
  Downloading ansible-13.2.0-py3-none-any.whl.metadata (8.1 kB)
Collecting ansible-core~=2.20.1 (from ansible)
  Downloading ansible_core-2.20.1-py3-none-any.whl.metadata (7.7 kB)
Collecting jinja2>=3.1.0 (from ansible-core~=2.20.1->ansible)
  Downloading jinja2-3.1.6-py3-none-any.whl.metadata (2.9 kB)
Collecting PyYAML>=5.1 (from ansible-core~=2.20.1->ansible)
  Downloading pyyaml-6.0.3.tar.gz (130 kB)
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Collecting cryptography (from ansible-core~=2.20.1->ansible)
  Downloading cryptography-46.0.3-cp311-abi3-manylinux_2_34_ppc64le.whl.metadata (5.7 kB)
Collecting packaging (from ansible-core~=2.20.1->ansible)
  Downloading packaging-25.0-py3-none-any.whl.metadata (3.3 kB)
Collecting resolvelib<2.0.0,>=0.8.0 (from ansible-core~=2.20.1->ansible)
  Downloading resolvelib-1.2.1-py3-none-any.whl.metadata (3.7 kB)
Collecting MarkupSafe>=2.0 (from jinja2>=3.1.0->ansible-core~=2.20.1->ansible)
  Downloading markupsafe-3.0.3.tar.gz (80 kB)
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Collecting cffi>=2.0.0 (from cryptography->ansible-core~=2.20.1->ansible)
  Downloading cffi-2.0.0-cp312-cp312-manylinux2014_ppc64le.manylinux_2_17_ppc64le.whl.metadata (2.6 kB)
Collecting pycparser (from cffi>=2.0.0->cryptography->ansible-core~=2.20.1->ansible)
  Downloading pycparser-2.23-py3-none-any.whl.metadata (993 bytes)
Downloading ansible-13.2.0-py3-none-any.whl (54.5 MB)
```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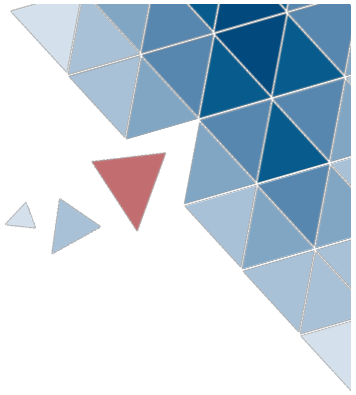

```
[ansible@rhel97 ~]$ ./ansible220/bin/ansible --version
ansible [core 2.20.1]
  config file = None
  configured module search path = ['/home/ansible/.ansible/plugins/modules', '/usr/share/ansible/plugins/mod
ules']
  ansible python module location = /home/ansible/ansible220/lib/python3.12/site-packages/ansible
  ansible collection location = /home/ansible/.ansible/collections:/usr/share/ansible/collections
  executable location = ./ansible220/bin/ansible
  python version = 3.12.12 (main, Jan 14 2026, 00:27:46) [GCC 11.5.0 20240719 (Red Hat 11.5.0-11)] (/home/an
sible/ansible220/bin/python)
  jinja version = 3.1.6
  pyyaml version = 6.0.3 (without libyaml)
[ansible@rhel97 ~]$ ./ansible219/bin/ansible --version
ansible [core 2.19.5]
  config file = None
  configured module search path = ['/home/ansible/.ansible/plugins/modules', '/usr/share/ansible/plugins/mod
ules']
  ansible python module location = /home/ansible/ansible219/lib/python3.12/site-packages/ansible
  ansible collection location = /home/ansible/.ansible/collections:/usr/share/ansible/collections
  executable location = ./ansible219/bin/ansible
  python version = 3.12.12 (main, Jan 14 2026, 00:27:46) [GCC 11.5.0 20240719 (Red Hat 11.5.0-11)] (/home/an
sible/ansible219/bin/python3)
  jinja version = 3.1.6
  pyyaml version = 6.0.3 (without libyaml)
```


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AIX?

- dnf install ansible
- UTF-8 locale
- Separate user with bash

```
[ansible@aix73 ~]$ cat .bash_profile
export PATH=$PATH:/opt/freeware/bin
export PS1='[\u@\h \w]\$ '
export LANG=en_US.UTF-8
```

```
[ansible@aix73 ~]$ python3.12 -mvenv --system-site-packages ansible220
[ansible@aix73 ~]$ source ansible220/bin/activate
```

```
((ansible220) ) [ansible@aix73 ~]$ pip3 install ansible==13.2
DEPRECATION: Loading egg at /opt/freeware/lib64/python3.12/site-packages/gpg-1.24.3-py3.12-aix-ppc64.egg is
deprecated. pip 25.1 will enforce this behaviour change. A possible replacement is to use pip for package in
stallation. Discussion can be found at https://github.com/pypa/pip/issues/12330
DEPRECATION: Loading egg at /opt/freeware/lib/python3.12/site-packages/gpg-1.24.3-py3.12-aix-ppc32.egg is de
precated. pip 25.1 will enforce this behaviour change. A possible replacement is to use pip for package inst
allation. Discussion can be found at https://github.com/pypa/pip/issues/12330
Collecting ansible==13.2
  Downloading ansible-13.2.0-py3-none-any.whl.metadata (8.1 kB)
```

```
[ansible@aix73 ~]$ ./ansible220/bin/ansible --version
ansible [core 2.20.1]
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/home/ansible/.ansible/plugins/modules', '/usr/share/ansible/plugins/mod
ules']
  ansible python module location = /home/ansible/ansible220/lib64/python3.12/site-packages/ansible
  ansible collection location = /home/ansible/.ansible/collections:/usr/share/ansible/collections
  executable location = ./ansible220/bin/ansible
  python version = 3.12.12 (main, Oct 14 2025, 02:05:51) [GCC 10.3.0] (/home/ansible/ansible220/bin/python3.
12)
  jinja version = 3.1.6
  pyyaml version = 6.0.2 (with libyaml v0.2.5)
```


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IBM i?

```
CRTUSRPRF USRPRF(ANSIBLE) USRCLS(*SECOFR) PASSWORD(ansible) TEXT('Ansible User')
STRQSH CMD('mkdir /home/ansible')
STRQSH CMD('chmod 0755 /home/ansible')
```

```
yum install gcc python39-devel python39-cffi libffi-devel openssl-devel
```

```
[ansible@ibmi75 ~]$ python3.9 -mvenv --system-site-packages ansible
[ansible@ibmi75 ~]$ source ansible/bin/activate
(ansible) [ansible@ibmi75 ~]$ pip3 list
Package    Version
---------- --------
ibm-db     2.0.5.12
itoolkit   1.7.0
pip        22.0.4
setuptools 58.1.0
six        1.16.0
WARNING: You are using pip version 22.0.4; however, version 25.3 is available.
You should consider upgrading via the '/home/ansible/ansible/bin/python3.9 -m pip install --upgrade pip' com
mand.
```

```
export CFLAGS=D_SIGSET_T
pip3 install cffi==1.17.1
```

```
pip3 install ansible==8.7
```

```
[ansible@ibmi75 ~]$ export LANG=EN_US.UTF-8
[ansible@ibmi75 ~]$ ./ansible/bin/ansible --version
ansible [core 2.15.13]
  config file = None
  configured module search path = ['/home/ansible/.ansible/plugins/modules', '/usr/share/ansible/plugins/mod
ules']
  ansible python module location = /home/ansible/ansible/lib/python3.9/site-packages/ansible
  ansible collection location = /home/ansible/.ansible/collections:/usr/share/ansible/collections
  executable location = ./ansible/bin/ansible
  python version = 3.9.11 (main, Mar 25 2022, 10:51:37) [GCC 6.3.0] (/home/ansible/ansible/bin/python3.9)
  jinja version = 3.1.6
  libyaml = False
```


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SSH keys

```
student00@ansible:~$ ssh-copy-id ansible@linux00
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/student00/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
ansible@linux00's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'ansible@linux00'"
and check to make sure that only the key(s) you wanted were added.
```

USE PASSPHRASES!

```
[ansible@ansible ~]$ eval $(ssh-agent)
Agent pid 2925
[ansible@ansible ~]$ ssh-add
Enter passphrase for /home/ansible/.ssh/id_ed25519:
Identity added: /home/ansible/.ssh/id_ed25519 (ansible@ansible.power-devops.cloud)
[ansible@ansible ~]$
```


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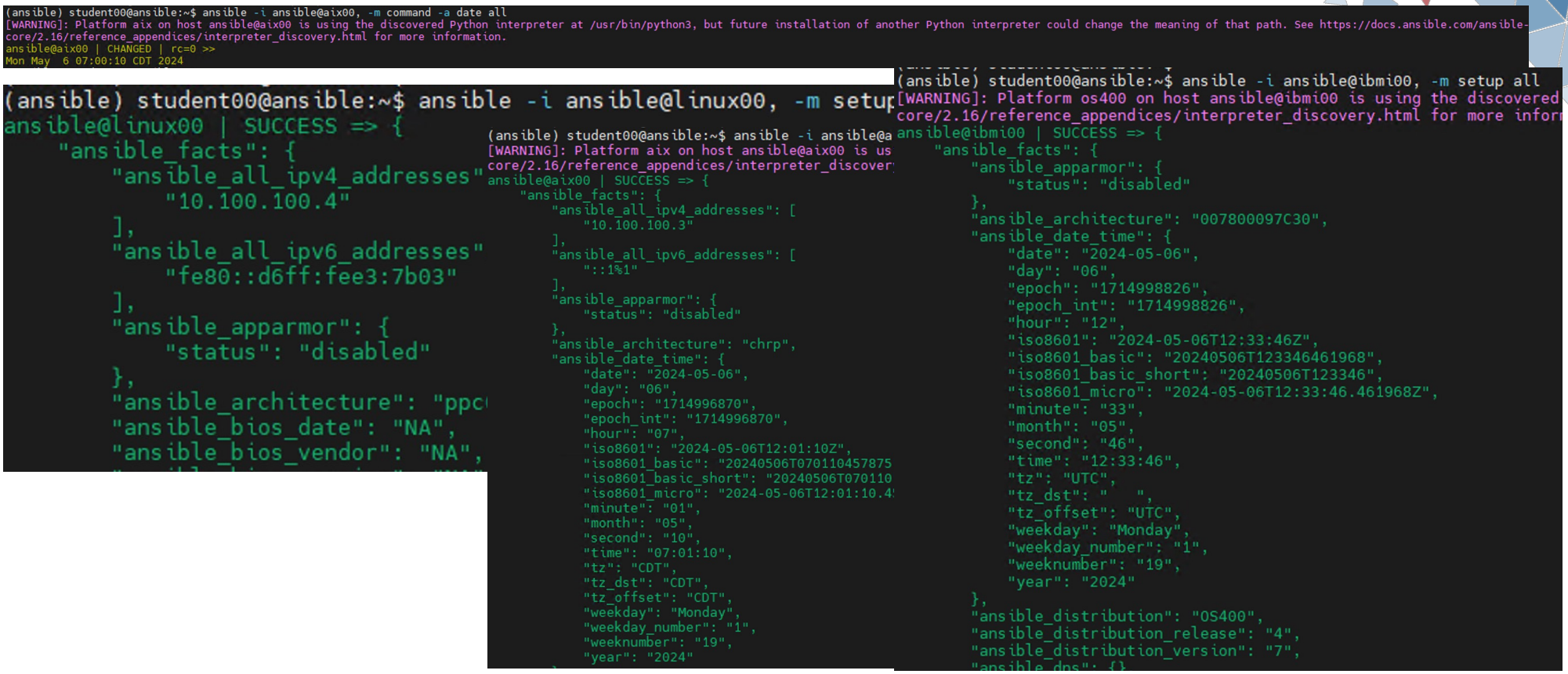
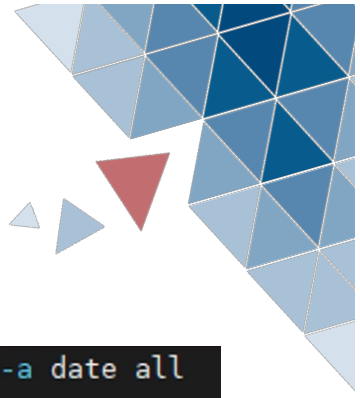
Ad-hoc execution



Ad-hoc commands



```
(ansible) student00@ansible:~$ ansible -i ansible@linux00,ansible@aix00,ansible@ibmi00, -m command -a date all
ansible@linux00 | CHANGED | rc=0 >>
Mon May  6 02:39:37 PM CEST 2024
[WARNING]: Platform aix on host ansible@aix00 is using the discovered Python interpreter at /usr/bin/python3, bu
core/2.16/reference_appendices/interpreter_discovery.html for more information.
ansible@aix00 | CHANGED | rc=0 >>
Mon May  6 07:39:38 CDT 2024
[WARNING]: Platform os400 on host ansible@ibmi00 is using the discovered Python interpreter at /usr/bin/python3,
core/2.16/reference_appendices/interpreter_discovery.html for more information.
ansible@ibmi00 | CHANGED | rc=0 >>
Mon May  6 12:39:39 UTC 2024
```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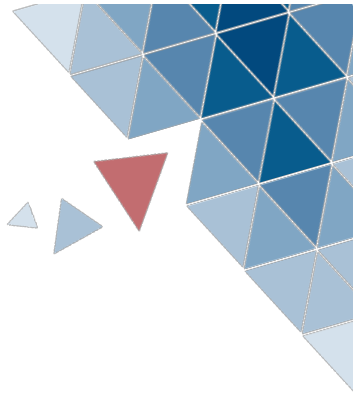
localhost – Use -c local

```
[ansible@ansible a]$ ansible -i localhost, -c local -m setup all
localhost | SUCCESS => {
    "ansible_facts": {
        "ansible_all_ipv4_addresses": [
            "10.100.10.2"
        ],
```



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Playbooks syntax

```
---
- name: Delete cluster
  hosts: all
  tasks:
    - name: Stop cluster
      enfence.powerha_aix.cluster:
        name: cluster1
        state: stopped
      when: inventory_hostname in groups['node1']
    - name: Delete cluster
      enfence.powerha_aix.cluster:
        name: cluster1
        state: absent
      when: inventory_hostname in groups['node1']


- name: reboot AIX servers
  hosts: all
  gather_facts: no
  tasks:
    - name: reboot server
      ibm.power_aix.reboot:
        post_reboot_delay: 60
```

Start with 3 dashes

Add name to the play

Define where the play should run

Define what to do.

The order is important!

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Task anatomy

Name of the task

Module used to execute the task

https://docs.ansible.com/ansible/latest/collections/index_module.htm

https://galaxy.ansible.com/ui/collections/

YOUR DOCUMENTATION!

```
- name: Stop cluster
  enfence.powerha_aix.cluster:
    name: cluster1
    state: stopped
  when: inventory_hostname in groups['node1']
```

Module parameters

Task arguments

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Check syntax

- Use --syntax-check to check the syntax of the playbook

```
(ansible) student00@ansible:~$ ansible-playbook -i inventory setup.yml --syntax-check
ERROR! We were unable to read either as JSON nor YAML, these are the errors we got from each:
JSON: Expecting value: line 1 column 1 (char 0)

Syntax Error while loading YAML.
  found unexpected end of stream

The error appears to be in '/home/student00/setup.yml': line 8, column 88, but may
be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

      ansible.builtin.debug:
        msg: "{{ ansible_facts.distribution }} {{ ansible_facts.distribution_version }}
                                                                                       ^ here
We could be wrong, but this one looks like it might be an issue with
missing quotes. Always quote template expression brackets when they
start a value. For instance:

    with_items:
      - {{ foo }}

Should be written as:

    with_items:
      - "{{ foo }}"
```


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Lint playbooks

```
[ansible@ansible ~]$ pip3 install ansible-lint
Defaulting to user installation because normal site-packages is not writeable
Collecting ansible-lint
  Downloading ansible_lint-26.4.0-py3-none-any.whl.metadata (6.2 kB)
Collecting ansible-compat>=26.3.0 (from ansible-lint)
  Downloading ansible_compat-26.3.0-py
Requirement already satisfied: ansible
 (from ansible-lint) (2.16.14)
Collecting black>=24.3.0 (from ansible
  Downloading black-26.5.1-cp312-cp312
ux_2_28_x86_64.whl.metadata (95 kB)
```

```
[ansible@ansible a]$ ansible-lint show_facts.yml
WARNING  Project directory /.ansible cannot be used for caching as it is not writable.
WARNING  Using unique temporary directory /tmp/.ansible-0aaa for caching.
/home/ansible/.local/lib/python3.12/site-packages/ansible_compat/runtime.py:242: UserWarn
ing: Project directory /.ansible cannot be used for caching as it is not writable.
  self.cache_dir = get_cache_dir(self.project_dir, isolated=self.isolated)
/home/ansible/.local/lib/python3.12/site-packages/ansible_compat/runtime.py:242: UserWarn
ing: Using unique temporary directory /tmp/.ansible-0aaa for caching.
  self.cache_dir = get_cache_dir(self.project_dir, isolated=self.isolated)
WARNING  Listing 1 violation(s) that are fatal
name[play]: All plays should be named.
show_facts.yml:2

Read documentation for instructions on how to ignore specific rule violations.

# Rule Violation Summary

  1 name profile:basic tags:idiom

Failed: 1 failure(s), 0 warning(s) in 1 files processed of 1 encountered. Last profile th
at met the validation criteria was 'min'.
sys:1: DeprecationWarning: builtin type swigvarlink has no __module__ attribute
```


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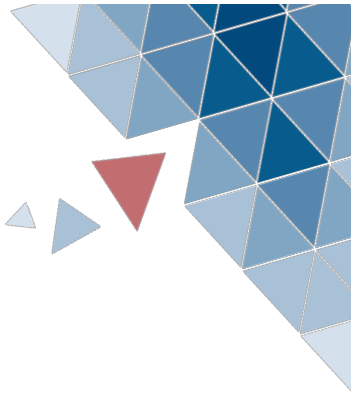
Check mode

```
[ansible@ansible a]$ ansible-playbook -i localhost, -c local show_facts.yml --check

PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [localhost]

TASK [Show facts] **************************************************************
ok: [localhost] => {
    "ansible_facts": {
        "all_ipv4_addresses": [
            "10.100.10.2"
        ],
```



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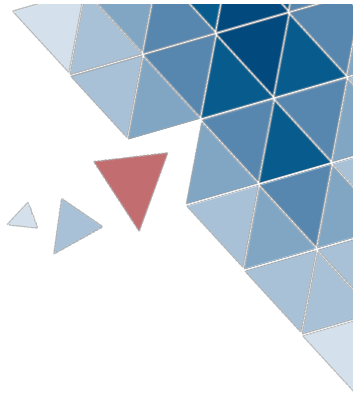
IBM (un)supported* modules



- AIX
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_aix/
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_aix_oracle/
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_aix_oracle_dba/
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_aix_oracle_rac_asm/
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_aix_sap/
- IBM i
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_ibmi/
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_ibmi_sap/
- IBM Power infrastructure
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_hmc/
  - https://galaxy.ansible.com/ui/repo/published/ibm/power_vios/

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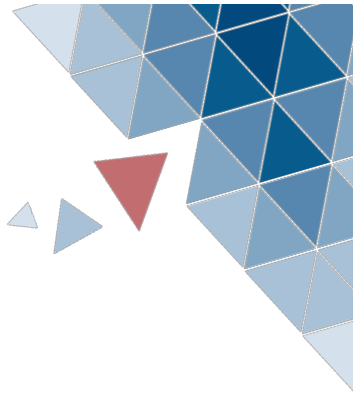
Community delivered IBM Power modules



- community.general.aix_devices
- community.general.aix_filesystem
- community.general.aix_inittab
- community.general.aix_lvg
- community.general.aix_lvol
- community.general.installp
- community.general.mksysb
- openstack.cloud.*

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PowerHA modules

- https://galaxy.ansible.com/ui/repo/published/enfence/powerha_aix/
  - Supported if you have Ansible Automation Platform subscription or through Github repository
- Roles in /usr/es/sbin/cluster/samples directory of your PowerHA 7.2.8 (or newer) installation
  - Supported through IBM PowerHA support

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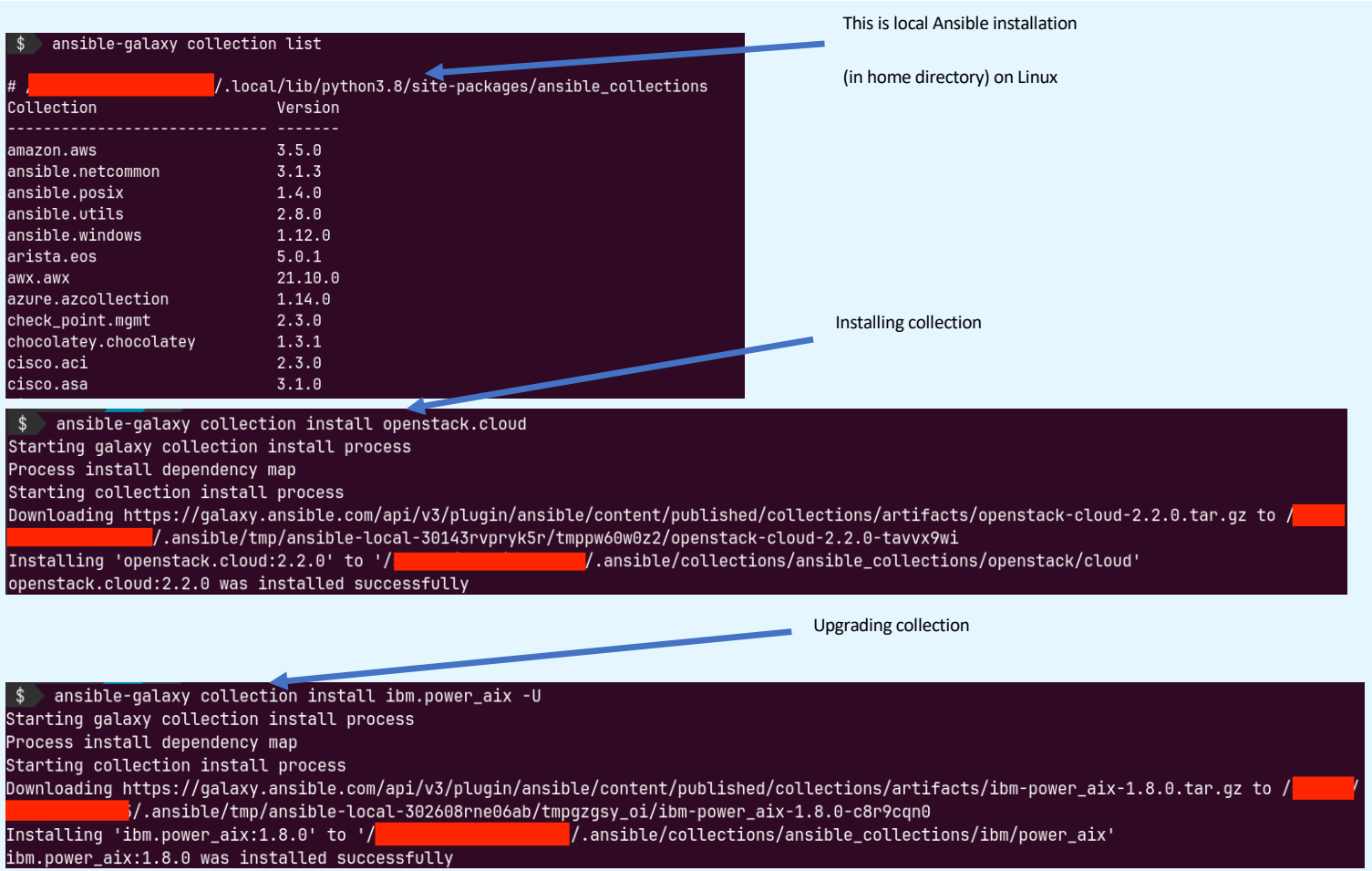
Working with collections



Working with collections

- Alternative paths

– Add all paths you want to use into your ansible.cfg

```
$ cat ansible.cfg
[defaults]
inventory = hosts
collections_paths = ./collections
```

– Use –p option to specify the path to the collections directory

```
$ ansible-galaxy collection install enfence.powerha_aix -p ./collections
Starting galaxy collection install process
Process install dependency map
Starting collection install process
Downloading https://galaxy.ansible.com/api/v3/plugin/ansible/content/published/collections/artifacts/enfence-powerha_aix-1.3.0.tar.gz to /[redacted]/.ansible/tmp/ansible-local-310813_kp2pd2/tmp97zkjra_/enfence-powerha_aix-1.3.0-3st6dqhk
Installing 'enfence.powerha_aix:1.3.0' to '[redacted]/collections/ansible_collections/enfence/powerha_aix'
enfence.powerha_aix:1.3.0 was installed successfully
```

Getting documentation

– List all available modules

```
$ ansible-doc -l
amazon.aws.autoscaling_group                                                    Create or delete AWS AutoScaling Grou...
amazon.aws.autoscaling_group_info                                               Gather information about EC2 Auto Sca...
amazon.aws.aws_az_info                                                          Gather information about availability...
amazon.aws.aws_caller_info                                                      Get information about the user and ac...
amazon.aws.backup_plan                                                          Manage AWS Backup Plans
amazon.aws.backup_plan_info                                                     Describe AWS Backup Plans
```

– Get information

```
$ ansible-doc ibm.power_aix.mount
> IBM.POWER_AIX.MOUNT    (/[redacted]/.ansible/collections/ansible_collections/ibm/power_aix/plugins/modules/mount.py)

        This module mounts/unmounts a Filesystem/Device on the specified path.

ADDED IN: version 0.4.0 of ibm.power_aix

OPTIONS (= is mandatory):

- alternate_fs
        Mounts on a file of an alternate file system, other than the /etc/filesystems file.
        default: null
        type: str

- force
        For remote mounted file systems, this attribute forces an unmount to free a client when the server is
        down and server path names cannot be resolved, or when a file system must be unmounted while it is
```

Roles

- Reusable pieces of Ansible code
- Structure your code
- Put everything in roles

```
[ansible@ansible a]$ mkdir -p roles ; cd roles
[ansible@ansible roles]$ ansible-galaxy role init myrole
- Role myrole was created successfully
[ansible@ansible roles]$ tree myrole
myrole
├── defaults
│   └── main.yml
├── files
├── handlers
│   └── main.yml
├── meta
│   └── main.yml
├── README.md
├── tasks
│   └── main.yml
├── templates
├── tests
│   ├── inventory
│   └── test.yml
└── vars
    └── main.yml

files
```

```
[ansible@ansible roles]$ ansible -i localhost, -c local -m include_role -a name=myrole all
localhost | SUCCESS => {
    "changed": false,
    "include_args": {
        "name": "myrole"
    }
}
```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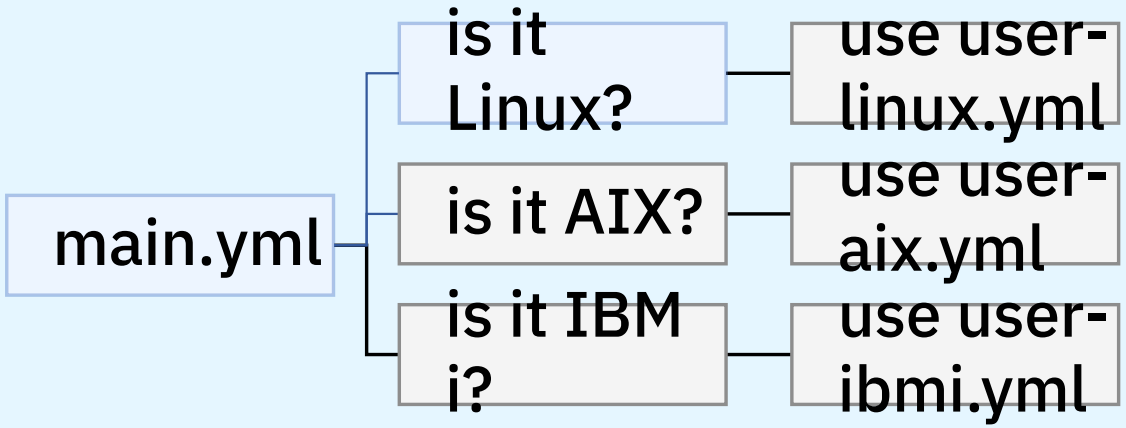
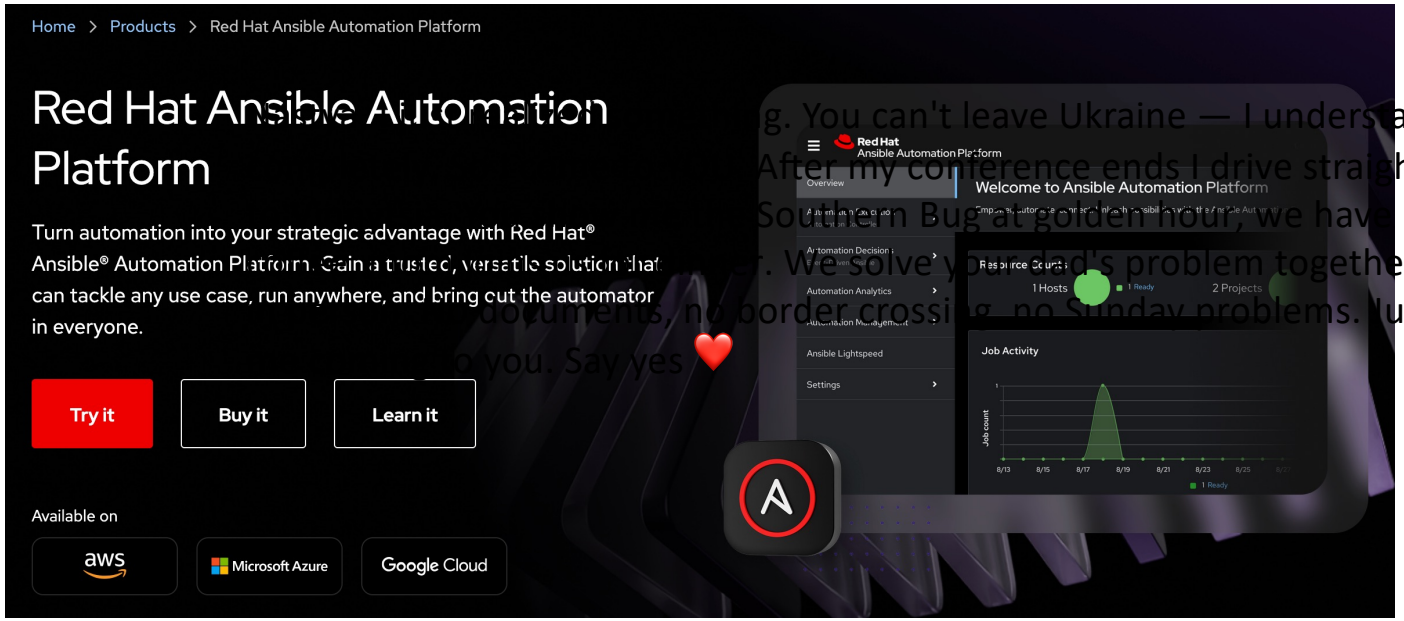
Make the decision!



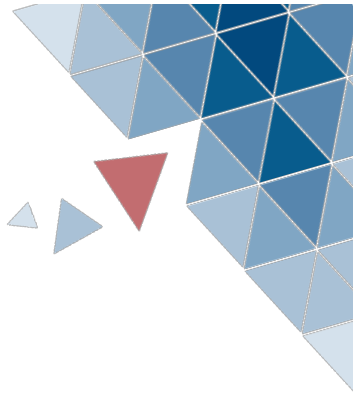
roles > user_create > tasks > ! main.yml

```yaml
---
- name: Execute Linux tasks
  ansible.builtin.include_tasks: user_linux.yml
  when: ansible_system == 'Linux'
- name: Execute AIX tasks
  ansible.builtin.include_tasks: user_aix.yml
  when: ansible_system == 'AIX'
- name: Execute IBM i tasks
  ansible.builtin.include_tasks: user_ibmi.yml
  when: ansible_system == 'OS400'
```

It works on IBM Power!



My playbooks don‘t work on AAP!



- Check ansible.cfg in your repo
  - collections_paths
  - roles_paths
- Check collections
  - collections_paths
  - requirements.yml
    https://docs.ansible.com/projects/ansible/latest/collections_guide/collections_installing.html
- Execution environments

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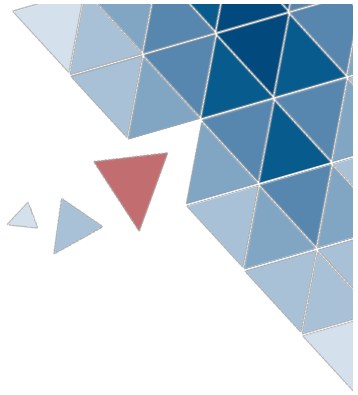
Ansible Content Navigator



- https://docs.ansible.com/projects/navigator/

```
[ansible@ansible a]$ pip3 install ansible-navigator
Defaulting to user installation because normal site-packages is not writeable
Collecting ansible-navigator
  Downloading ansible_navigator-26.4.0-py3-none-any.whl.metadata (8.0 kB)
```

```
[ansible@ansible ~]$ podman login registry.redhat.io
Username: andrey.klyachkin
Password:
Login Succeeded!
[ansible@ansible ~]$ podman pull registry.redhat.io/ansible-automation-platform-26/ee-support
ed-rhel9:latest
Trying to pull registry.redhat.io/ansible-automation-platform-26/ee-supported-rhel9:latest...
Getting image source signatures
Checking if image destination supports signatures
Copying blob e3986d199c25 done   |
Copying config ece7b878a1 done   |
Writing manifest to image destination
Storing signatures
ece7b878a17ebab2440f34264d04fb1a696fd44f196fc135866d09183f89606d
```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Configuration and running

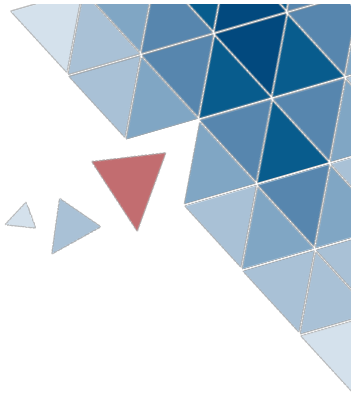
```
[ansible@ansible a]$ cat ansible-navigator.yml
---
ansible-navigator:
  execution-environment:
    image: registry.redhat.io/ansible-automation-platform-26/ee-supported-rhel9:latest
    pull:
      policy: never
```

```
[ansible@ansible a]$ ansible-navigator run show_facts.yml -i localhost, -c local -m stdout
/usr/local/lib/python3.12/site-packages/paramiko/pkey.py:100: CryptographyDeprecationWarning:
 TripleDES has been moved to cryptography.hazmat.decrepit.ciphers.algorithms.TripleDES and wi
ll be removed from cryptography.hazmat.primitives.ciphers.algorithms in 48.0.0.
  "cipher": algorithms.TripleDES,
/usr/local/lib/python3.12/site-packages/paramiko/transport.py:259: CryptographyDeprecationWar
ning: TripleDES has been moved to cryptography.hazmat.decrepit.ciphers.algorithms.TripleDES a
nd will be removed from cryptography.hazmat.primitives.ciphers.algorithms in 48.0.0.
  "class": algorithms.TripleDES,

PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [localhost]

TASK [Show facts] **************************************************************
ok: [localhost] => {
    "ansible_facts": {
        "ansible_local": {},
        "apparmor": {
            "status": "disabled"
```

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Replay

```
[ansible@ansible a]$ ls
ansible-navigator.log
ansible-navigator.yml
roles
show_facts-artifact-2026-06-14T13:54:37.401877+00:00.json
show_facts-artifact-2026-06-14T13:55:08.658069+00:00.json
show_facts-artifact-2026-06-14T13:55:23.646020+00:00.json
show_facts.yml
```

```
[ansible@ansible a]$ ansible-navigator replay show_facts-artifact-2026-06-14T13\:55\:23.646020+00\:00.json -m stdout
/usr/local/lib/python3.12/site-packages/paramiko/pkey.py:100: CryptographyDeprecationWarning: TripleDES has been moved to cryptography.hazmat.decrepit.ciphers.algorithms.TripleDES and will be removed from cryptography.hazmat.primitives.ciphers.algorithms in 48.0.0.
  "cipher": algorithms.TripleDES,
/usr/local/lib/python3.12/site-packages/paramiko/transport.py:259: CryptographyDeprecationWarning: TripleDES has been moved to cryptography.hazmat.decrepit.ciphers.algorithms.TripleDES and will be removed from cryptography.hazmat.primitives.ciphers.algorithms in 48.0.0.
  "class": algorithms.TripleDES,

PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [localhost]

TASK [Show facts] **************************************************************
ok: [localhost] => {
    "ansible_facts": {
        "ansible_local": {},
```

```
Play name: all:1
Task name: Show facts
Ok: localhost
  0 ---
  1 duration: 0.02622
  2 end: '2026-06-14T13:55:23.021984+00:00'
  3 event_loop: null
  4 host: localhost
  5 play: all
  6 play_pattern: all
  7 playbook: /home/ansible/a/show_facts.yml
  8 remote_addr: localhost
  9 res:
 10   _ansible_no_log: false
 11   _ansible_verbose_always: true
 12   ansible_facts:
 13     ansible_local: {}
 14     apparmor:
 15       status: disabled
```


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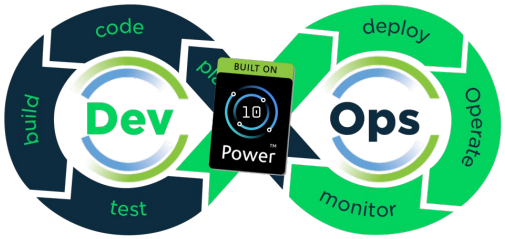
About me



- Andrey Klyachkin
- IBM Champion on IBM Power
- IBM AIX Community Advocate
- IBM Certified Advanced Technical Expert, Red Hat Certified Engineer
- Author of different IBM AIX and IBM Power certifications
- IBM Redbooks Author
- Founder of power-devops.com (DevOps tools for IBM Power)
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- Youtube: https://www.youtube.com/@powerdevops
- Newsletter: https://blog.power-devops.com

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eNFence portfolio

- IBM Power and AIX Managed Services
- IT Automation and DevOps
- Security Audits and Hardening
- Private, Public and Hybrid Clouds
- Porting Software to IBM Power (IBM AIX, Linux on IBM Power)

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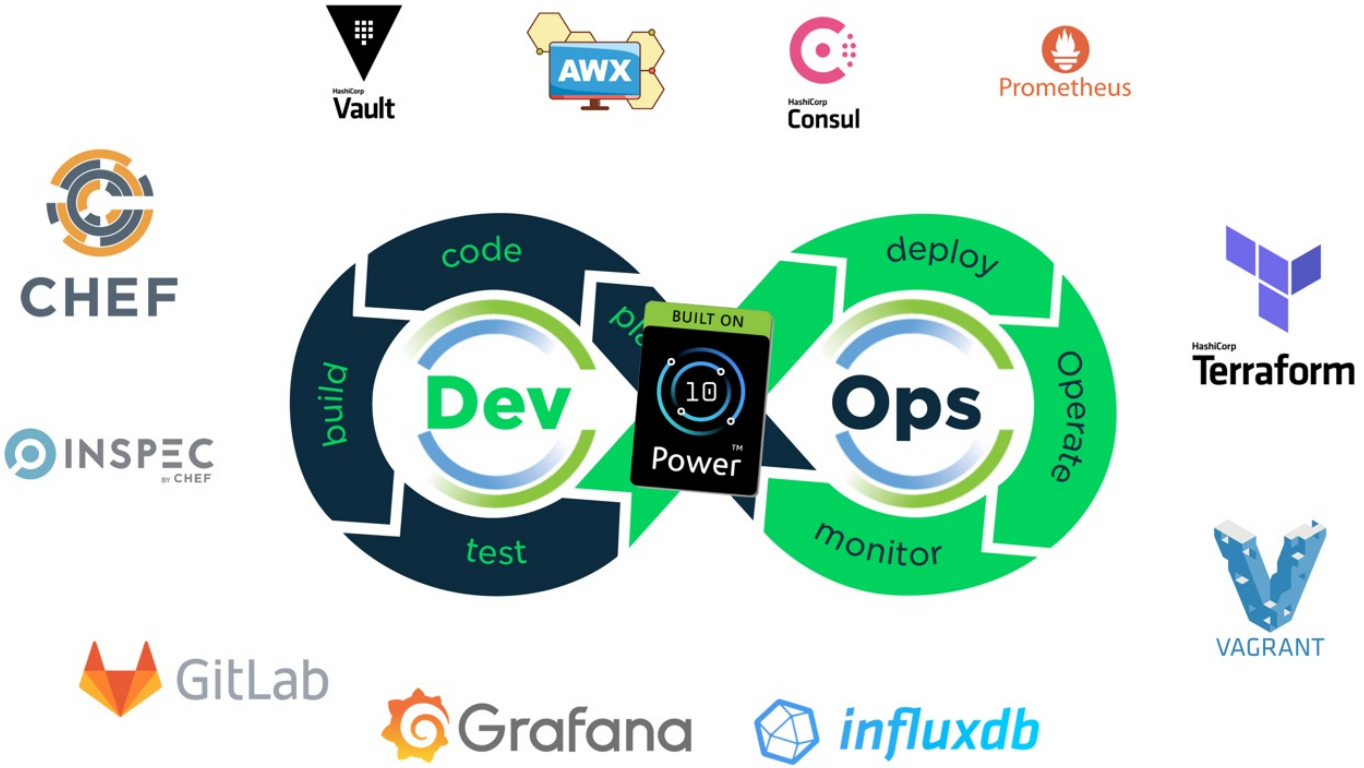

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