PODBA using Ansible Automation Platform 2 (AAP2)

Overview: Ansible Automation Platform Version 2 offers new features and components. This readme outlines the process of executing the PODBA playbooks using AAP2.

Reference to AAP2: https://www.ansible.com/blog/introducing-ansible-automation-platform-2

AAP2 can be installed by referring the below link:

Chapter 3. Installing Red Hat Ansible Automation Platform Red Hat Ansible Automation Platform 2.3 | Red Hat Customer Portal

Preparing the Execution Environment:

1. Install podman using dnf.
2. In any present working directory, create a directory named "context".
3. Inside the "context" directory place the extracted oracle client software directory with the name "oracle_client".
4. Create a file (example: create_podba_ee.yml) with the following content.

```
# Execution Environment
---
version: 1
build_arg_defaults:
  EE_BASE_IMAGE: 'quay.io/ansible/ansible-runner:latest'
additional_build_steps:
 prepend:
  - RUN pip3 install cx_Oracle        # Installs cx_Oracle in the container
  - RUN yum install libnsl -y         # Installs libnsl which is required by oracle client.
  - RUN yum install libaio -y         # Installs libaio which is required by oracle client.
 append:
  - COPY oracle_client /oracle_client_sw      # Copies "oracle_client" directory into the container
```

5. Run the following command to build the execution environment image.

```
ansible-builder build -t <name of the image> -f <name of the file to build the image>
ansible-builder build -t powerodba -f create_podba.yml
Running command:
  podman build -f context/Containerfile -t powerodba context
Complete! The build context can be found at: /home/ansible/aap2/context
```

6. Listing the images

```
[ansible@localhost aap2]$ podman images
REPOSITORY                    TAG        IMAGE ID      CREATED        SIZE
localhost/powerodba           latest     ea01cbbf4b64  56 minutes ago  1.45 GB
<none>                        <none>     9a6f51f8bff9  57 minutes ago  816 MB
quay.io/ansible/ansible-runner   latest     bec0dc171168  6 months ago    816 MB
quay.io/ansible/ansible-builder  latest     b0348faa7f41  8 months ago    779 MB
```

Execution of playbooks: Create a file called ansible-navigator.yml inside the {{ playbooks directory with the following content.

```
$ cat ansible-navigator.yml
---
ansible-navigator:
  execution-environment:
    enabled: True
    image: powerodba:latest          # Name of the REPOSITORY:TAG
```

- Follow the readme files under "docs" to update the variables.
- Run the following command to execute the playbooks.

```
$ ansible-navigator run <playbook name> --pp=missing --m stdout -i <name of inventory file>
Example:
ansible-navigator run manage-db-directories.yml --pp=missing --m stdout -i hosts.yml
```

To use escalated privileges, please use "--playbook-artifact-enable false" at the end of the command.

Example:

ansible-navigator run db-opatch.yml --pp=missing --m stdout -i hosts.yml --ask-become-pass --playbook-artifact-enable false