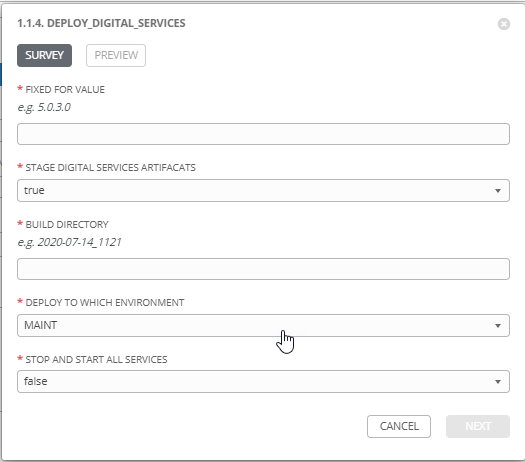
**Technical Documentation – Deploy\_Digital\_Services**

1. Workflow – Deploys MDSE Business Services Artifacts to an MUAT/Maintenance and IPASP/Production.



1. Survey – User Supplied Variables



|  |  |  |  |
| --- | --- | --- | --- |
| **Survey Extra Variables** | **Prompt** | **Type** | **Description and Usage** |
| FFV | Fixed For Value | Text | The fixed for value for the deployment – must be of the format ###.###.###.### (i.e. 58.0.12.0). Numbers only, with a maximum of 3 digits and there must be 4 sets separated with a ‘.’. Used to create staging and deployments directories. Used by all job templates in the workflow |
| STAGE | Stage Digital Services Artifacts | Multiple Choice Single Pick | True or false – Copies the Business Artifacts from the MDSE Build Releases Directory to the Staging folder. |
| ReleaseDir | Build Directory | Text | The /pencmw\_common/MDSE/releases/ subdirectory that contains the business services artifacts |
| ENV | Deploy to Which Environment | Multiple Choice Single Pick | The Environment to Deploy to: MAINT or PROD. Only a single environment can be deployed to per workflow execution |
| SERVICES\_RESTART | Stop and Start All Services | Multiple Choice Single Pick | True or false – Restarts ALL MDSE Services. |

EXTRA VARIABLES – at Workflow Level

|  |  |  |
| --- | --- | --- |
| **Extra Variables** | **Value** | **Description and Usage** |
| migration\_log\_url | http://dardanos1bcp.penc.local:7005/ords/devops/test2/log/record2/new/ | The URL for APEX/ORDS that houses the migration\_log table. |

1. Jobs Used by the workflow - http://owl.penc.local:18080/svn/deploy\_automation/trunk/Ansible\_PlayBooks/MDSE

| **Job Template** | **Ansible Playbook** | **Credentials / host** | **Project** | **Description and Usage** |
| --- | --- | --- | --- | --- |
| create\_services\_vars\_mdse | create\_services\_vars\_mdse.yml | pencmw on pdeploy1bcp | Digital Services | Creates Variables/Artifacts for use within the workflows, based on the User supplied survey results.  Artifacts Defined with examples  DeploymentLogDir: /codemove\_common/dp\_automation/deployments/001.000/001.000.004.000/MDSE  RESTART\_ALL: false  StageDir: /codemove\_common/dp\_automation/stage/001.000/001.000.004.000/MDSE  date\_time: '20200901\_1447'  services\_deployment\_host: 'mbusserv3bcp,mbusserv4bcp'  stage\_server: diagoras1bcp  tower\_hostname: pdeploy1bcp.penc.local |
| stage\_files\_mdse | stage\_files\_mdse.yml | codemove on {{stage\_server}} – typically diagoras1bcp | Digital Services | Copies MDSE Services Artifacts from /pencmw\_common/MDSE/releases/{{ReleaseDir}} to the {{StageDir}}/{{ReleaseDir}}  The job fails if the /pencmw\_common/MDSE/releases/{{ReleaseDir}} build directory does not exist.  If the stage\_server is set to ‘none’ as opposed to diagoras1bcp, the playbook does not do anything, all of the tasks are skipped.  The last task of the job creates a Staging Report in the {{DeploymentLogDir}} in html format. |
| check\_build\_stage\_md5\_mdse | check\_build\_stage\_md5\_mdse.yml | pencmw on {{services\_deployment\_host}} | Digital Services | Checks the md5 checksum file on each of {{services\_deployment\_host}} to ensure the staged files are correct |
| set\_restart\_variable\_mdse | set\_restart\_variable\_mdse.yml  calls:  check\_for\_key\_jars\_mdse.yml | pencmw on pdeploy1bcp | Digital Services | Loops through all the jar files in {{StageDir}}/{{ReleaseDir}} with the check\_for\_key\_jars\_mdse.yml playbook and if any jar file is one of penc-config-srv.jar, penc-hub-srv.jar, penc-security-srv.jar or penc-gateway-srv.jar set the {{RESTART\_ALL}} to true.  If the User has set {{SERVICES\_RESTART}} to true set {{RESTART\_ALL}} to true. |
| deploy\_services\_mdse | deploy\_services\_mdse.yml  CALLS:  shutdown\_mdse\_services.yml when {{RESTART\_ALL}} is true  deploy\_single\_service\_mdse.yml  startup\_mdse\_services.yml when {{RESTART\_ALL}} is true | pencmw on {{services\_deployment\_host}}  such as mbusserv3bcp, mbusserv4bcp | Digital Services | deploy\_services\_mdse.yml, if {{RESTART\_ALL}} is true, it stops all of the services with specific shutdown tasks for the gatewayservice, securtiyservice, hubservice and configserve, then calls shutdown\_mdse\_services for all other services.  deploy\_services\_mdse.yml then calls deploy\_single\_service\_mdse.yml by looping through the jar files in {{StageDir}}/{{ReleaseDir}}. If {{RESTART\_ALL}} is false the service will be stopped, deployed and then started. If {{RESTART\_ALL}} is true all of the services have already been shutdown so the jar file is just deployed.  If {{RESTART\_ALL}} is true deploy\_services\_mdse.yml, starts the configservice, hubservice, securityservice and gatewayservice in a specific order. It also checks ports 18000 and 18001 to ensure the config and hub services are started before proceeding. If {{RESTART\_ALL}} is true it then calls startup\_mdse\_services.yml to start the rest of the services.  The playbook operates in serial mode so it deploys to a single server at a time (i.e. no outage in a load balanced environment) |
| deployment\_complete\_services\_mdse | deployment\_complete\_services\_mdse.yml | pencmw on pdeploy1bcp set in playbook | Digital Services | Populates an html formatted deployment log {{DeploymentLogDir}}/{{ReleaseDir}}/{{ENV}}\_MDSE\_{{date\_time}}.html |
| create\_migration\_log\_data\_mdse | create\_migration\_log\_data\_mdse.yml | pencmw on pdeploy1bcp  awx\_database | Digital Services | Populates the APEX migration\_log table defined with url {{migration\_log\_url}} |