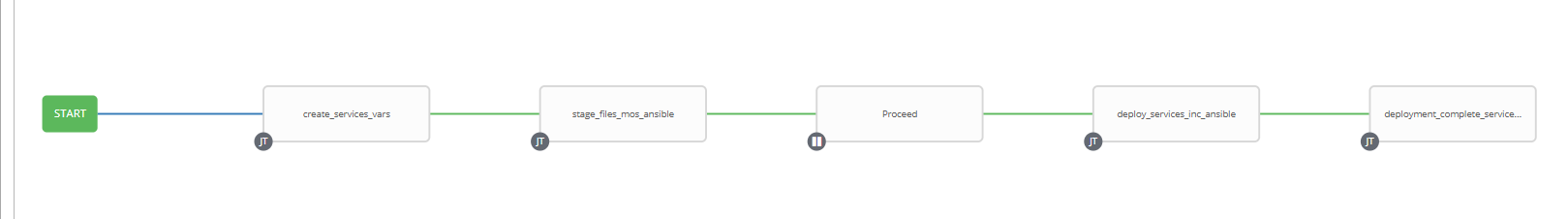
**Technical Documentation – Deploy\_Incremental\_Business\_Services Workflow**

1. Workflow – Deploys Incremental Business Services Artifacts to an Environment.



1. Survey – User Supplied Variables

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| **Survey Extra Variables** | **Prompt** | **Type** | **Description and Usage** |
| FFV | Fixed For Value | Text | The fixed for value for the deployment – must be for 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 MOS Artifacts | Multiple Choice Single Pick | True or false – Copies the Business Artifacts from the MOS Build Releases Directory to the Staging folder. |
| ReleaseDir | Build Directory | Text | The /pencmw\_common/MOS/releases/ subdirectory that contains the business services artifacts |
| ENV | Deploy to Which Environment | Multiple Choice Single Pick | The Environment to Deploy to: DEV, TEST, MAINT or PROD. Only a single environment can be deployed to per workflow execution |
| SERVICELIST | Service to Deploy | Multiple Choice Multiple Select | The Business Service artificat(s) to deploy:  penc-admin-app.jar  penc-beneficiary-srv.jar  penc-candidate-srv.jar  penc-config-srv.jar  penc-decision-srv.jar  penc-estimate-srv.jar  penc-hub-srv.jar  penc-kofax-srv.jar  penc-member-srv.jar  penc-msc-integration-proxy-srv.jar  penc-pencalc-srv.jar  penc-record-srv.jar  penc-report-srv.jar  penc-rmsproxy-srv.jar  penc-security-srv.jar  penc-security-srv-tests.jar  penc-utility-srv.jar |

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

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| --- | --- | --- | --- |
| **Job Template** | **Ansible Playbook** | **Project** | **Description and Usage** |
| create\_services\_vars | create\_inc\_services\_vars\_ansible.yml  Calls:  set\_services\_restart\_all.yml | MOS/MEX Deployments | Create\_inc\_servcies\_vars\_ansible.yml – 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/005.000/005.000.003.000/MOS  RESTART\_ALL: true  StageDir: /codemove\_common/dp\_automation/stage/005.000/005.000.003.000/MOS  date\_time: '20200629\_0828'  services\_deployment\_host: 'tbusserv1bcp,tbusserv2bcp'  stage\_server: diagoras1bcp  CALLS:  set\_services\_restart\_all.yml – loops through the list of jar files in the {{SERVICELIST}} variable and if it includes any of: penc-config-srv.jar, penc-hub-srv.jar, penc-security-srv.jar or penc-admin-app.jar, sets the RESTART\_ALL to true so that ALL Business Services are restarted during the deployment process |
| stage\_files\_mos\_ansible | stage\_files\_mos\_ansible.yml | MOS/MEX Deployments | Copies MOS Services Artifacts from /pencmw\_common/MOS/releases/{{ReleaseDir}} to the {{StageDir}}/{{ReleaseDir}}  The job fails if the /pencmw\_common/MOS/releases/{{ReleaseDir}} build directory does not exist.  If the stage\_server is set to ‘none’ as opposed to diagoras1bcp, the playbook does not actually do anything, all of the tasks are skipped.  The last task of the job creates a Staging Report in the {{DeploymentLogDir}} in html format.  Note: that this Job Template is used by the Full MOS Deployment, WES Deployment and MSC Deployment workflows. |
| Proceed | Approval Step | N/A | An approval step is required after the staging of the Artifacts. This allows the Release Team to review the staging report in /codemove\_common/dp\_automation/deployments/005.000/005.000.003.000/MOS prior to carrying out the actual deployment. |
| deploy\_services\_inc\_ansible | deploy\_services\_inc\_ansible.yml  Calls:  deploy\_single\_service\_inc\_ansible.yml | MOS/MEX Deployments | deploy\_services\_inc\_ansible.yml – If {{RESTART\_ALL}} is true, it stops all of the services then calls deploy\_single\_service\_inc\_ansible.ymls by looping through the {{SERVICELIST}}, If {{RESTART\_ALL}} is true it starts all of the servcies  deploy\_single\_service\_inc\_ansible.yml –for each jar file passed to it: If RESTART\_ALL is false it stops the service, deploys the jar file and then starts the service. If RESTART\_ALL is true it just deploys the jar file.  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\_incremental\_ansible | deployment\_complete\_services\_inc\_ansible.yml | MOS/MEX Deployments | Populates an html formatted deployment log {{DeploymentLogDir}}/{{ReleaseDir}}/{{ENV}}\_services\_incremental\_{{date\_time}}.html |