**Technical Documentation – Deploy\_MOS**

1. Workflow – Deploys Liferay and 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 Liferay and 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 Liferay and 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 |
| APACHE | Include the Stop and Start of Apache OHS | Multiple Choice Single Pick | true or false – If true shutdown the Apache OHS on Xwebsso1bcp prior to the deployment. |
| SERVICES | Deploy Business Services | Multiple Choice Single Pick | true or false – If true deploy business services. |
| LIFERAY | Deploy Liferay Services | Multiple Choice Single Pick | true or false – if true deploy liferay services |
| CORPSITETHEME | Deploy Corporate Site Theme | Multiple Choice Single Pick | true or false – if true deploy the corporate site theme |
| RESTART\_LIFERAY | Restart Liferay Tomcat After Deployment | Multiple Choice Single Pick | true or false – if true restart the Liferay Tomcat – only applies if LIFERAY or CORPSITETHEME has been set to true. |

1. Jobs Used by the workflow

| **Job Template** | **Ansible Playbook** | **Project** | **Description and Usage** |
| --- | --- | --- | --- |
| create\_mos\_variables | create\_mos\_vars\_ansible.yml | MOS/MEX Deployments | DeploymentLogDir: /codemove\_common/dp\_automation/deployments/005.000/005.000.003.000/MOS  SiteBacker\_Serial: QNJPDGLZACBDBXBWJPYSBQZWZAWUIENV  StageDir: /codemove\_common/dp\_automation/stage/005.000/005.000.003.000/MOS  apache\_host: none  date\_time: '20200629\_1326'  liferay\_deployment\_host: 'dliferay71bcp,dliferay72bcp'  liferay\_port: 4443  services\_deployment\_host: 'dbusserv1bcp,dbusserv2bcp'  stage\_server: diagoras1bcp |
| 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 Incremental Business Services 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. |
| apache\_stop\_ansible | apache\_stop\_ansible.yml | MOS/MEX Deployments | If {{APACHE}} is set to true: Stops the Apache OHS listener for the {{ENV}} environment on the appropriate websso1bcp server prior to deployment in order to lock out users. If {{APACHE}} is set to false it does nothing. |
| deploy\_services\_ansible | deploy\_services\_ansible.yml  Calls  deploy\_single\_service\_ansible.yml | MOS/MEX Deployments | If {{SERVICES}} is set to true, stops all of the Business Services and deploys any business services to {{ENV}} that have been staged, then starts all of the Business 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) |
| deploy\_liferay\_ansible | deploy\_liferay\_ansible.yml | MOS/MEX Deployments | If {{LIFERAY}} is set to true deploys any Liferay Artificats that have been staged to {{ENV}}.  If {{CORPSITETHEME}} is set to true deploys the Corporate Site Theme that has been staged.  If {{RESTART\_LIFERAY}} is true and one of {{LIFERAY}} or {{CORPSITETHEME}} is true the tomcat application server is restarted.  After deployment and the tomcat services are available it checks for presence of the {{SiteBacker\_Serial}} string in the html output when the Liferay host URL is accessed.  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) |
| apache\_start\_ansible | apache\_start\_ansible.yml | MOS/MEX Deployments | If {{APACHE}} is set to true: Starts the Apache OHS listener for {{ENV}} environments on the appropriate websso1bcp server after deployment. If {{APACHE}} is set to false it does nothing. |
| deployment\_complete\_mos\_ansible | deployment\_complete\_mos\_ansible.yml | MOS/MEX Deployments | Populates an html formatted deployment log {{DeploymentLogDir}}/{{ReleaseDir}}/{{ENV}}\_MOS\_{{date\_time}}.html |
| liferay\_health\_check\_ansible | liferay\_health\_check\_ansible.yml | MOS/MEX Deployments | Executes the Python Liferay Health Check of the {{ENV}} environment and emails the result to the Release Team. If {{ENV}} is PROD it does nothing as the health check is not available for Productions. |