Welcome to z/OSMF training, Z/OSMF Product Installation.

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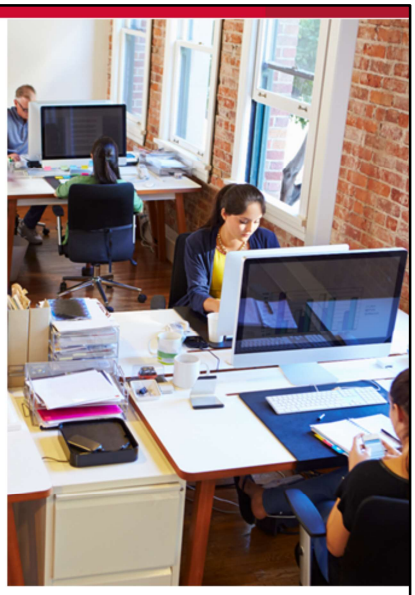
Welcome

- Welcome to the z/OSMF training.
- Broadcom is more committed than ever to the Software Management experience and assisting clients to simplify the transition to z/OSMF.
- This course was designed to assist sites manage their software with z/OSMF.
- This session covers z/OSMF Software Management to install a software instance.



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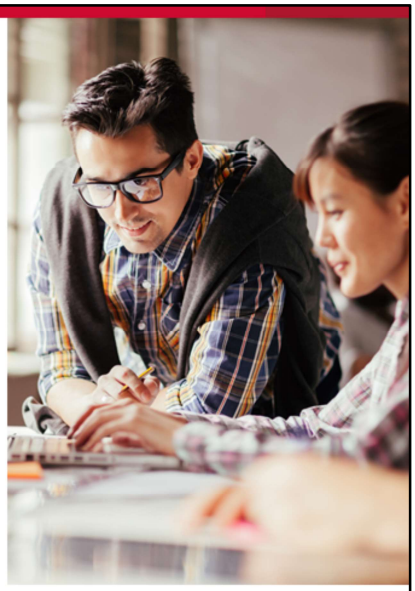
Broadcom is committed to assisting clients to simplify their transition to z/OSMF Software Management of their mainframe software products.
This is one of several courses to help clients install and maintain their software products using z/OSMF.
This course covers using z/OSMF Software Management to install a Portable Software Instance.

Course Objectives

After this course, you will be able to:

- Understand the steps to install a Software Instance using z/OSMF Software Management, including the configuration and submission of the Deployment and Workflow jobs.
- Note that prior to installing a Software Instance the software need to be acquired and added as Portable Software Instance. Please see the 'Acquire a z/OSMF Portable Software Instance' course.



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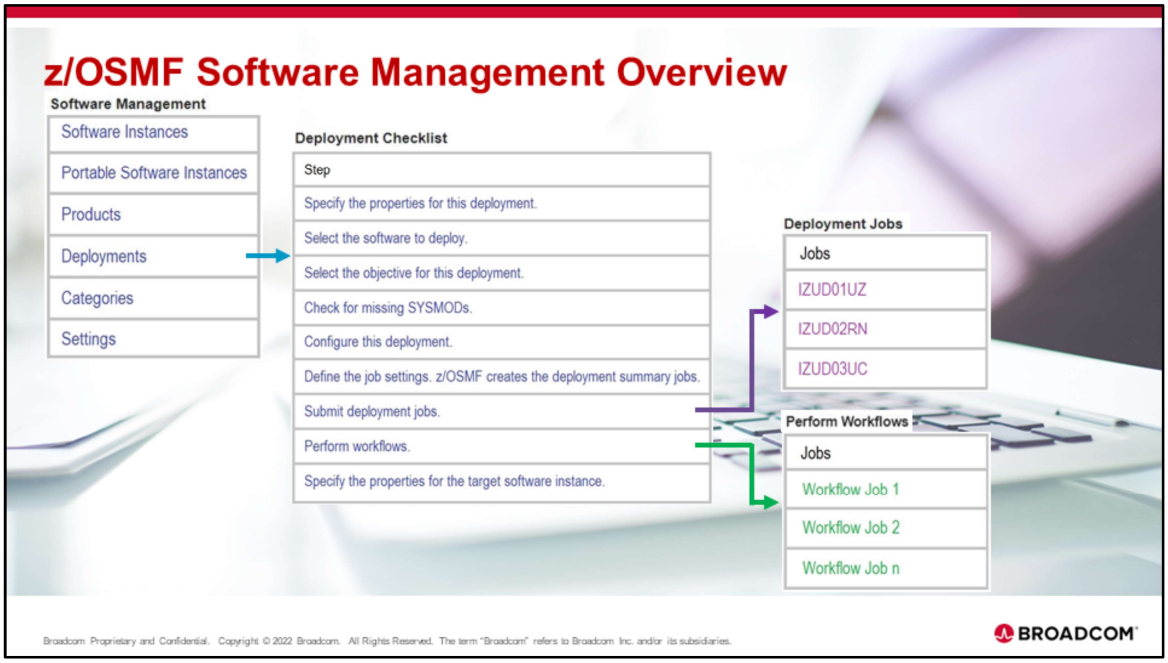
This course will help you to understand the steps to install a Portable Software Instance using z/OSMF Software Management.



This is an overview of the z/OSMF process to deploy a Software Instance. Select ‘Deployments from the primary ‘Software Management’ menu to open the ‘Deployment Checklist’ steps which are required to be completed. Note that two of the Deployment steps ‘Submit deployment jobs.’ and ‘Perform workflows’ include sub-steps for jobs associated with deployment jobs and workflow jobs. There are 3 deployment jobs for all products and 1 or more workflow jobs based on the product.

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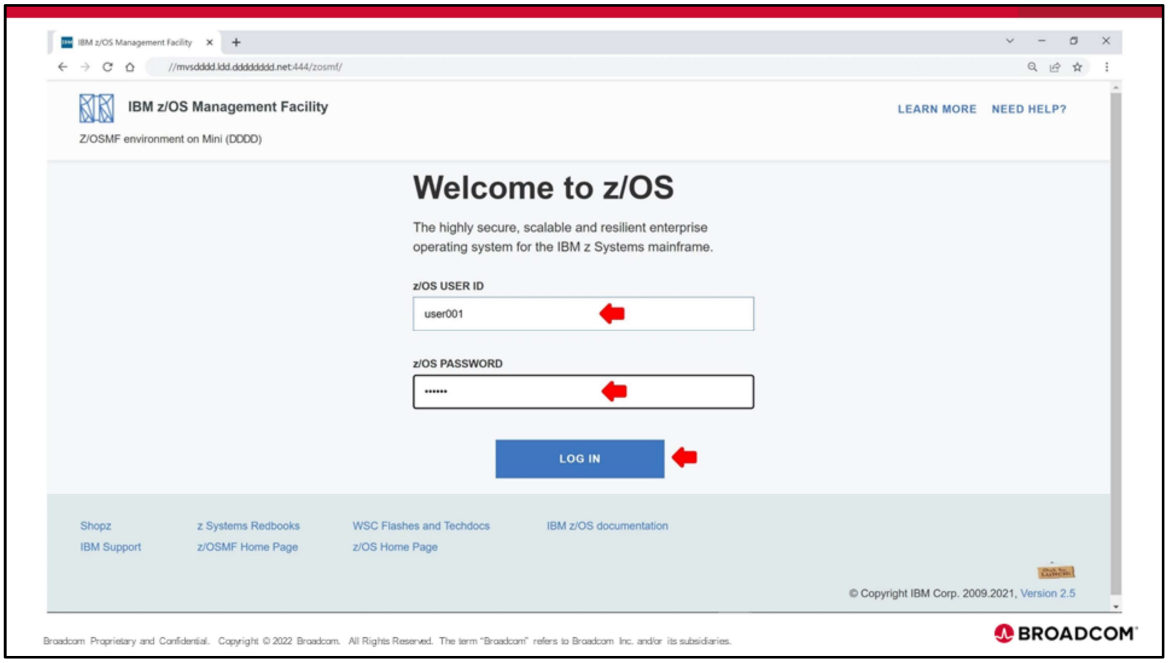
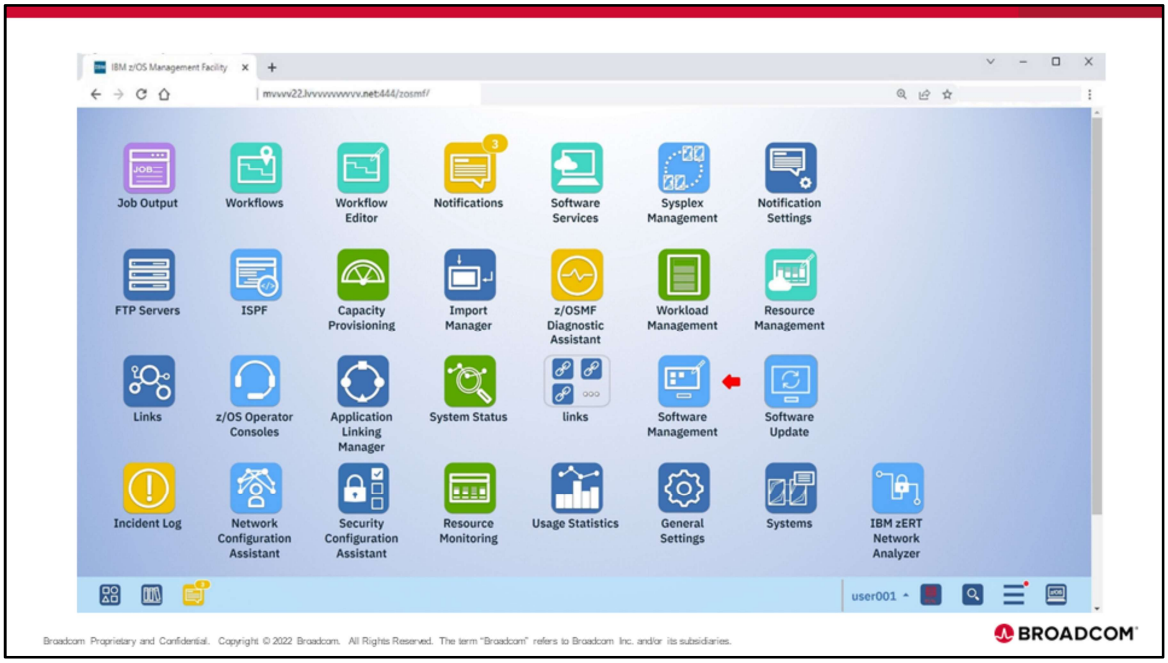
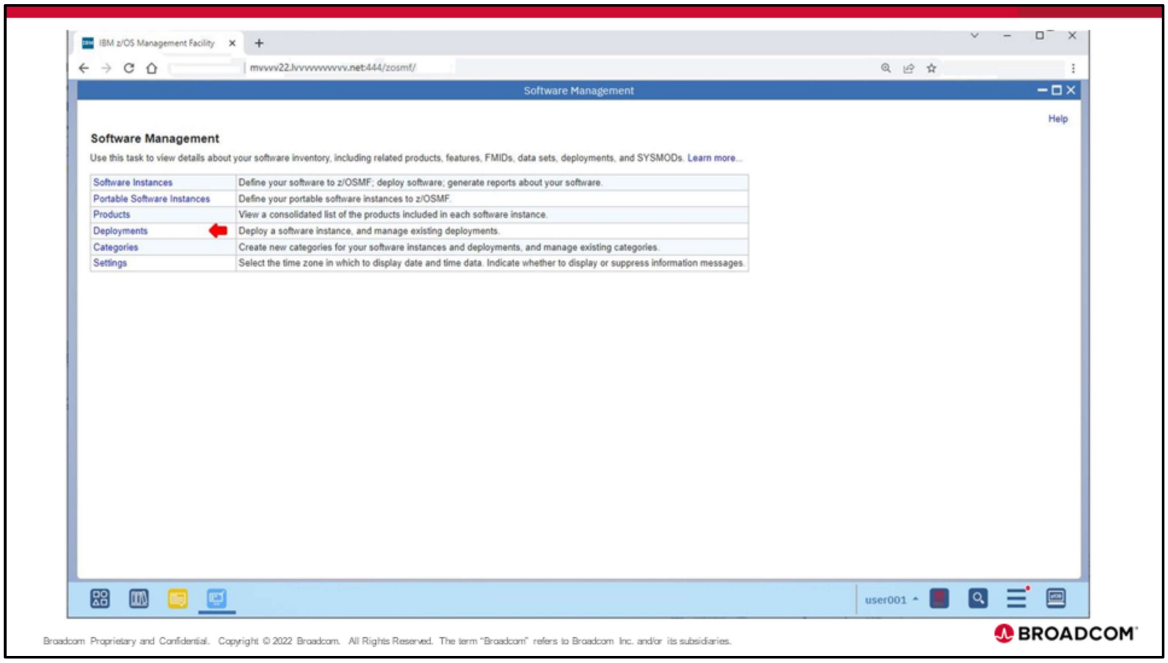


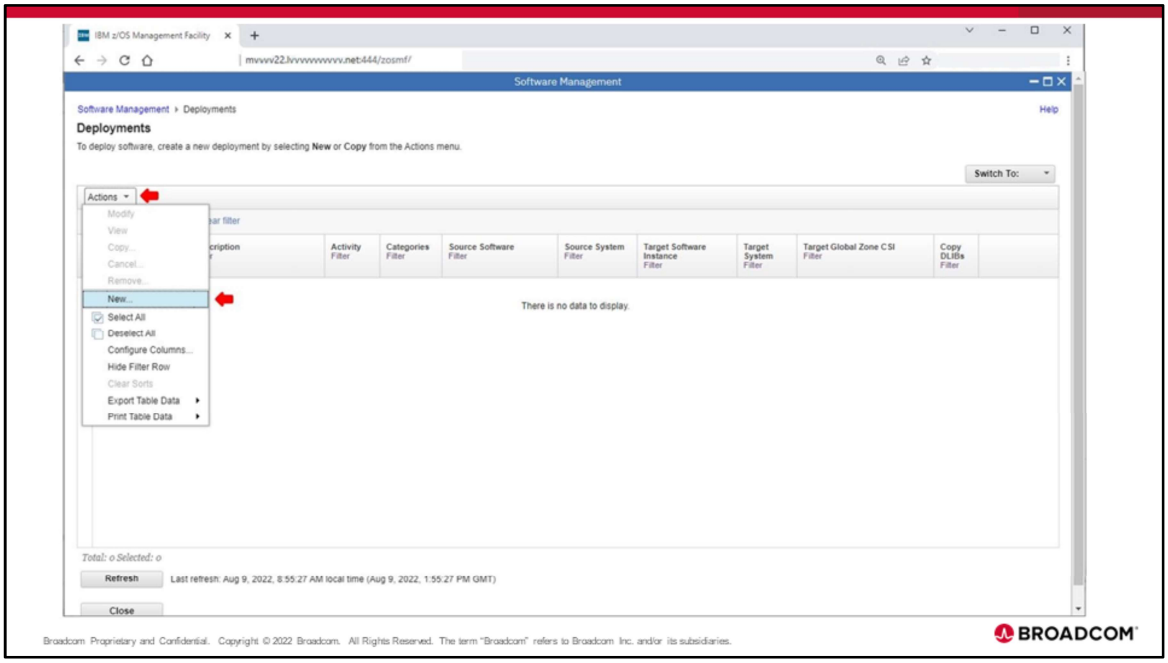
Logon to z/OSMF.



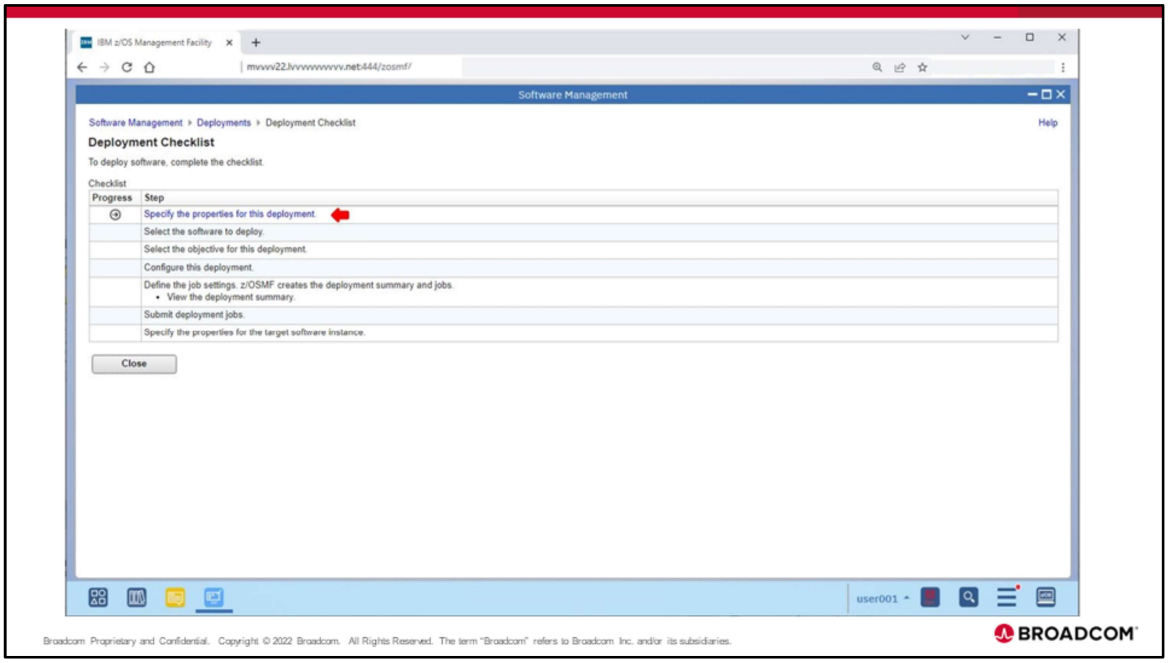
Select ‘Software Management’ by double clicking on the icon.



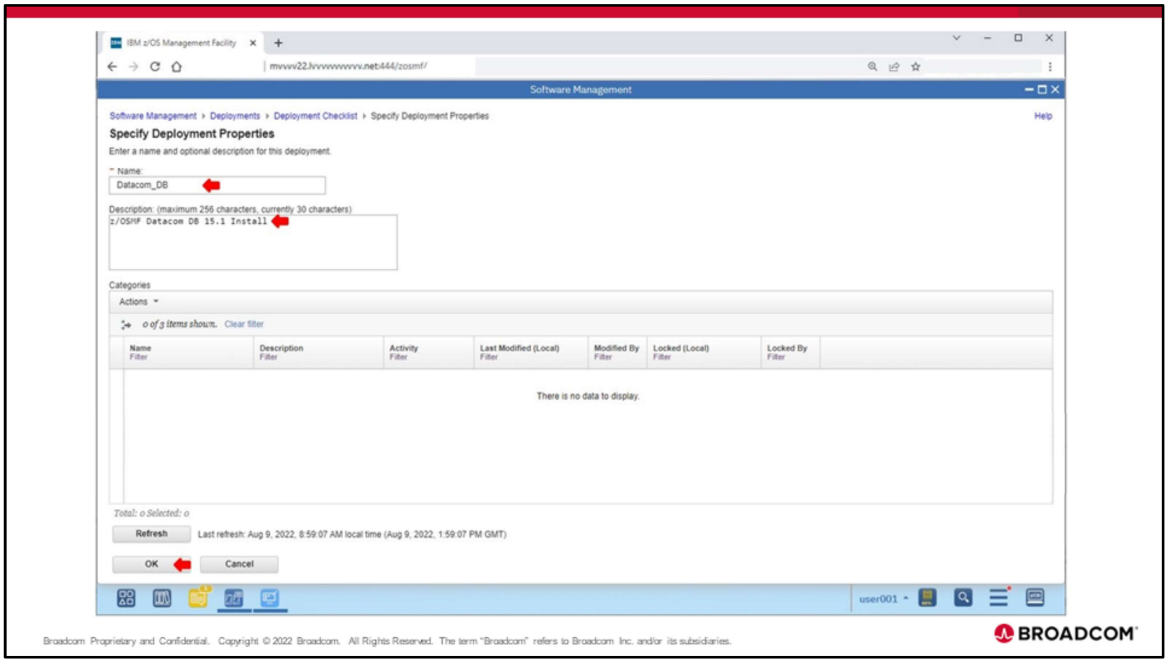
Click on the ‘Deployment’ task to install a product that has been acquired.



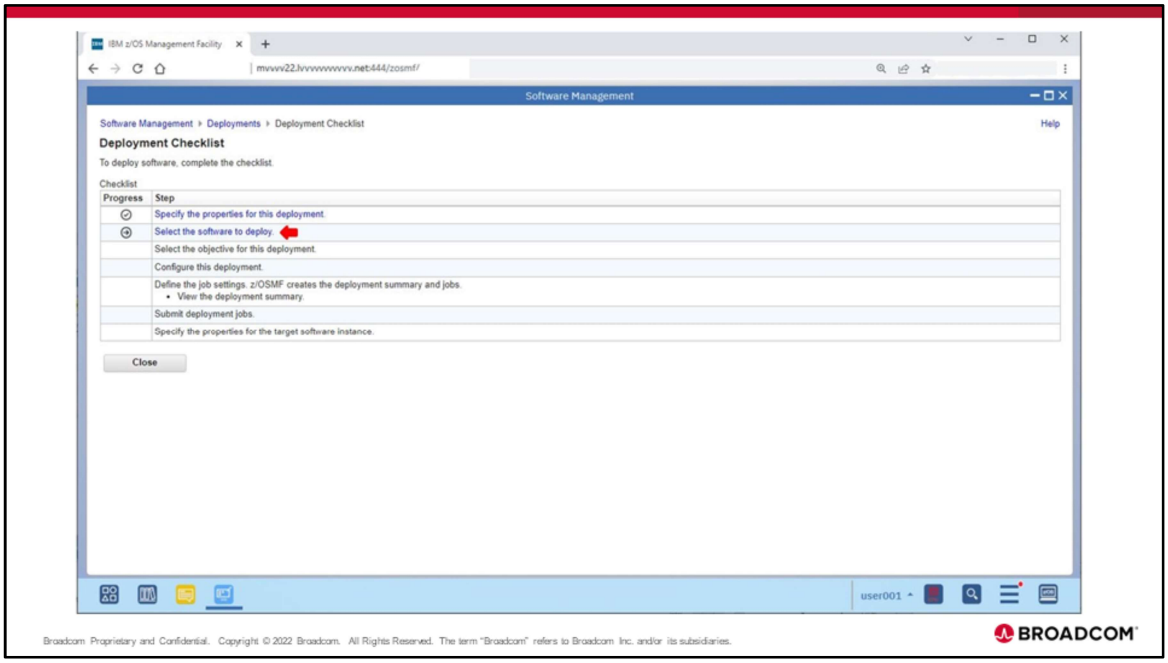
Define a new deployment by selecting **New** from the Actions menu.
The deployment checklist displays. You can also modify, view, copy, cancel, or remove existing deployments.



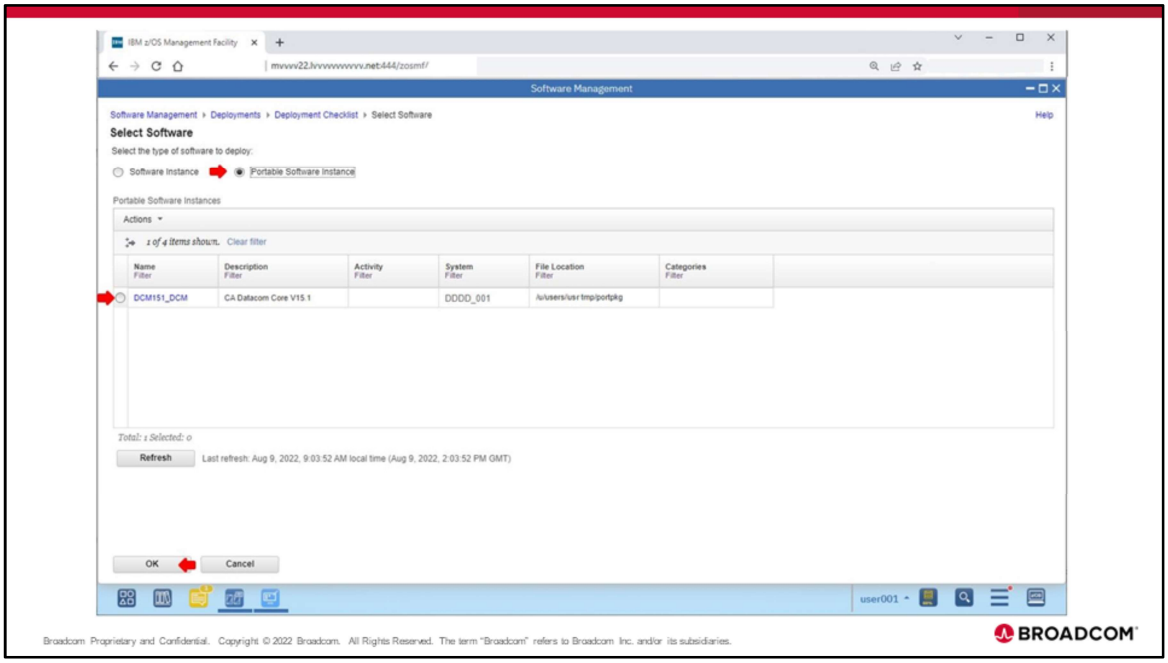
Complete the deployment checklist items as described in Defining new deployments in the IBM documentation.
Click on ‘Specify the properties for this deployment’.



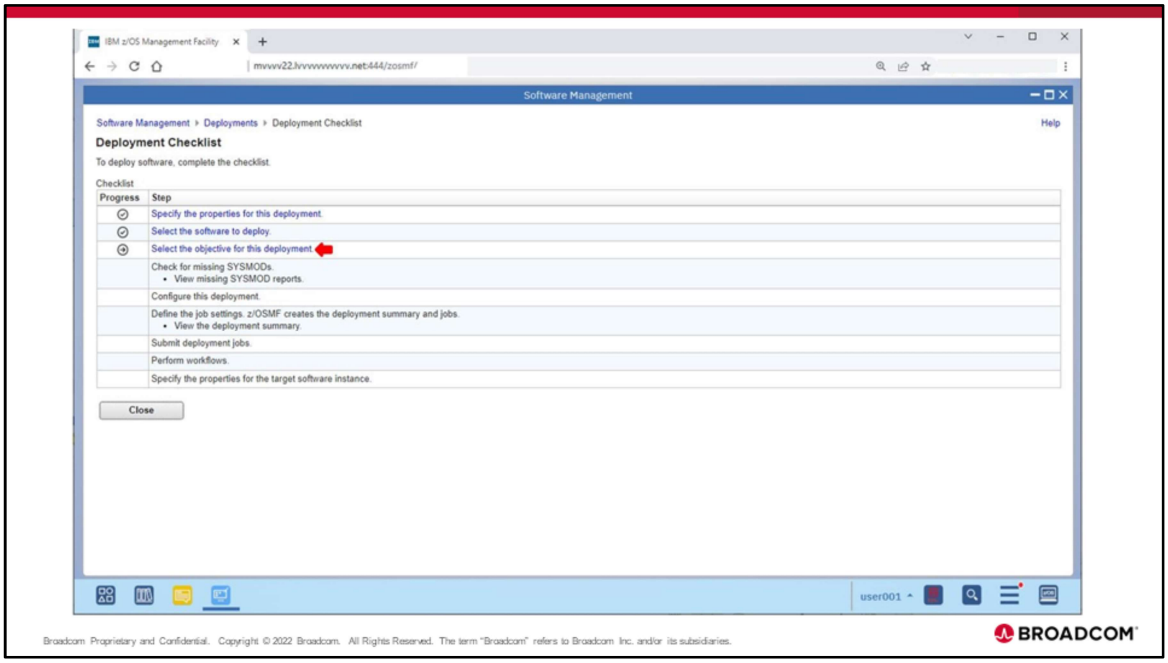
As you complete the deployment checklist, be sure to make the following selections:
Specify the properties for this deployment (name, description, and optional category). Then click OK:



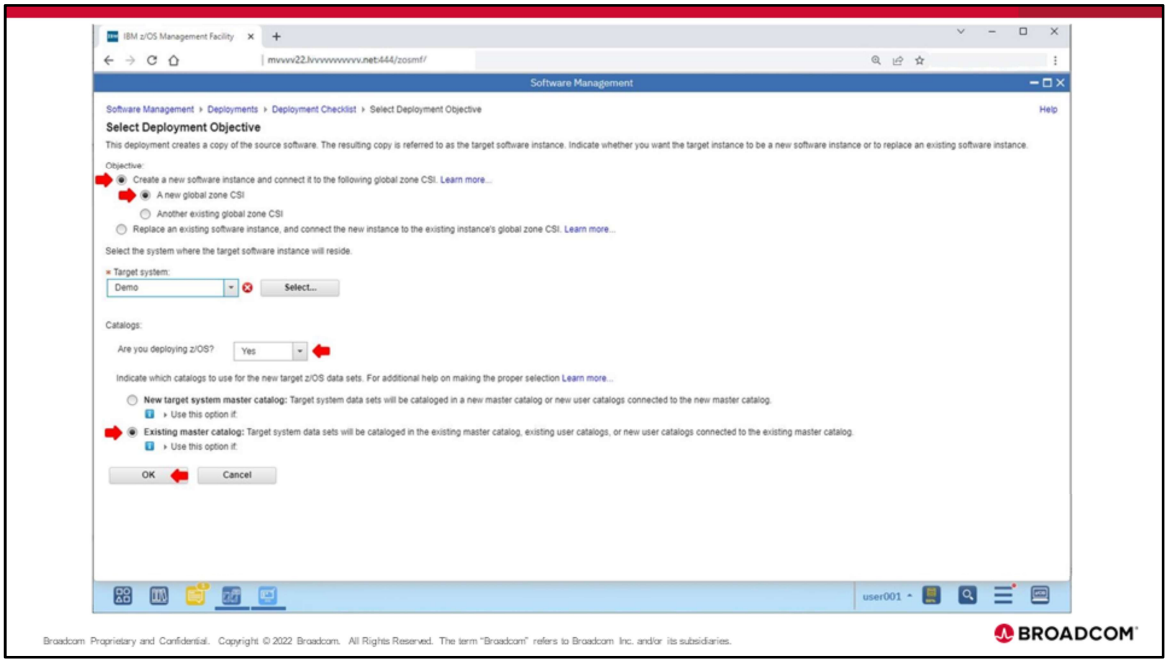
Select the software to deploy.



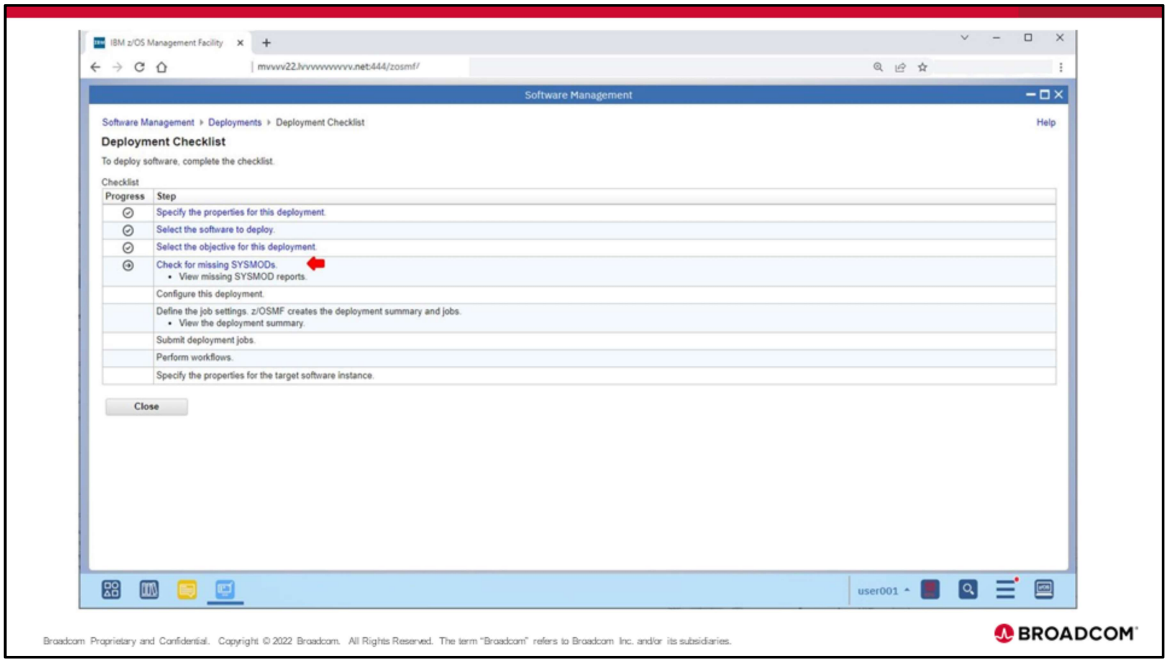
Click on ‘Portable Software Instance’, check the desired Portable Software Instance then click on OK.



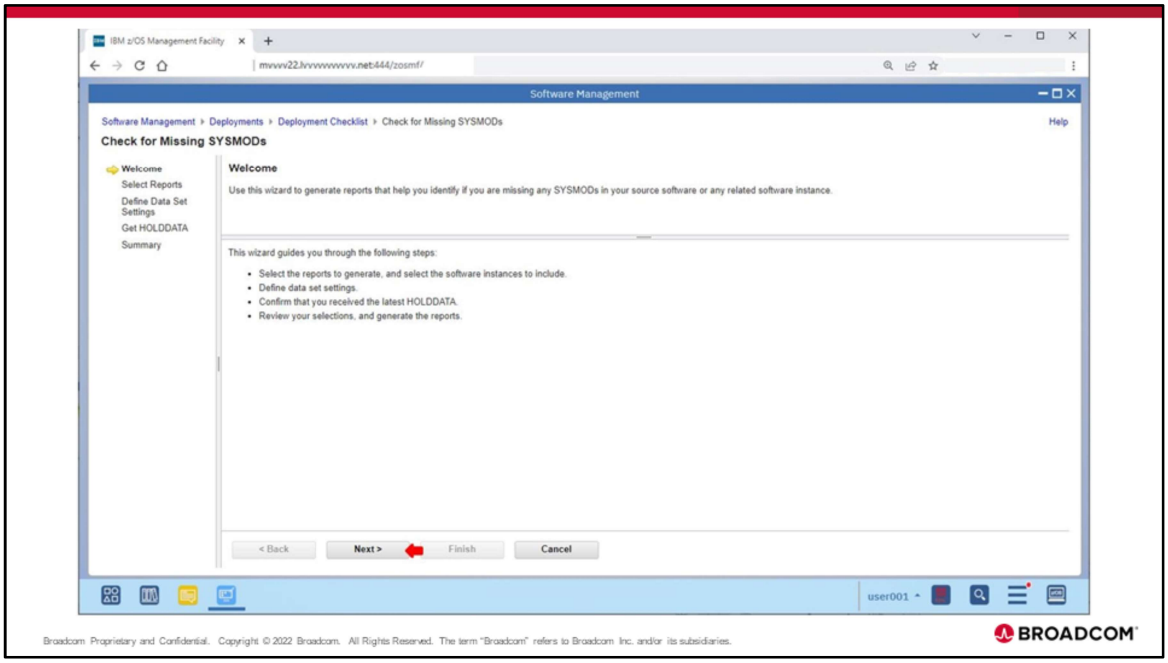
Click on ‘Select the objective for this deployment.



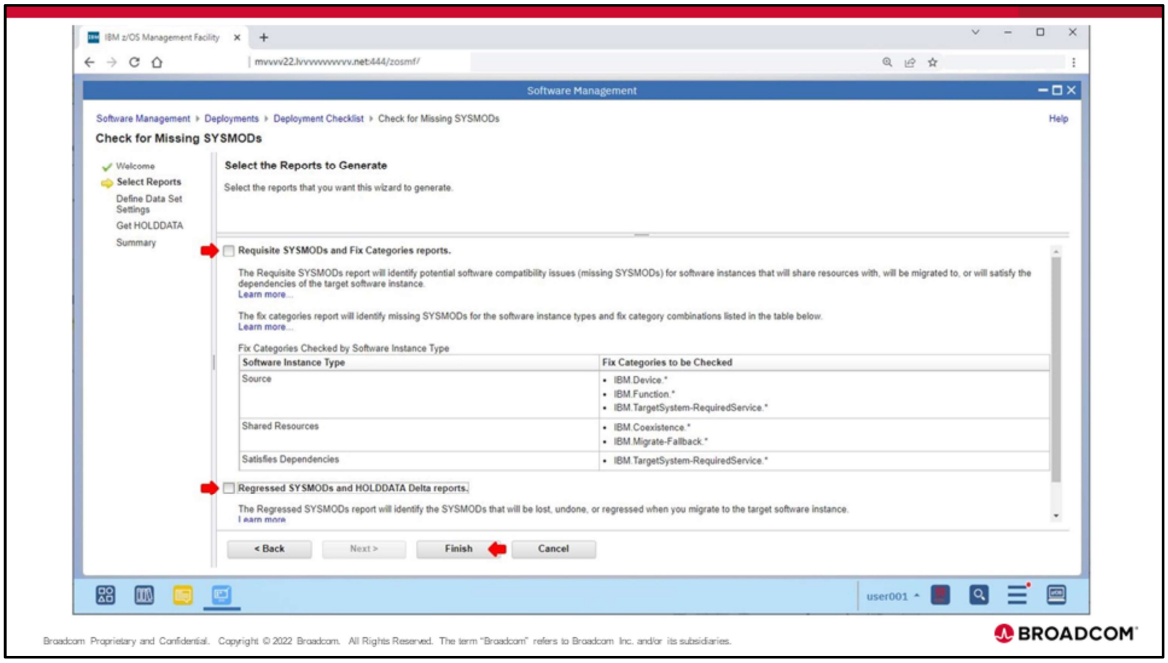
On the ‘Select Deployment Objective’, Click on ‘Create a new software instance’,
click on ‘A new global zone CSI’, select or enter the ‘Target system’,
select ‘Yes’ for ‘Are you deploying z/OS?’, click on
‘Existing master catalog’, then click ‘OK’.



Click on ‘Check for missing SYSMODs.’



There are 5 steps for the ‘Check for Missing SYSMODs’, Review and Click on ‘Next’ to proceed.



Check for missing SYSMODs and view missing SYSMOD reports.
For this step, deselect the following report options:
  Requisite SYSMODs and Fix Categories reports
  Regressed SYSMODs and HOLDDATA Delta reports
Click on ‘Finish’, to bypass the next three ‘Check for Missing SYSMODs’ steps.

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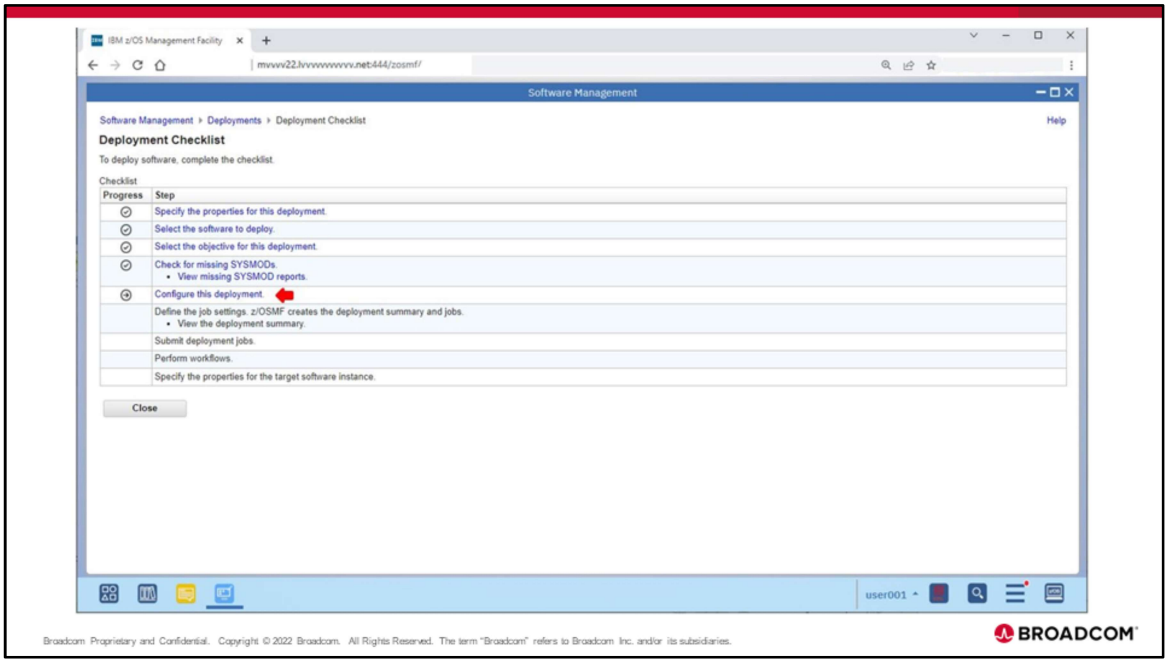
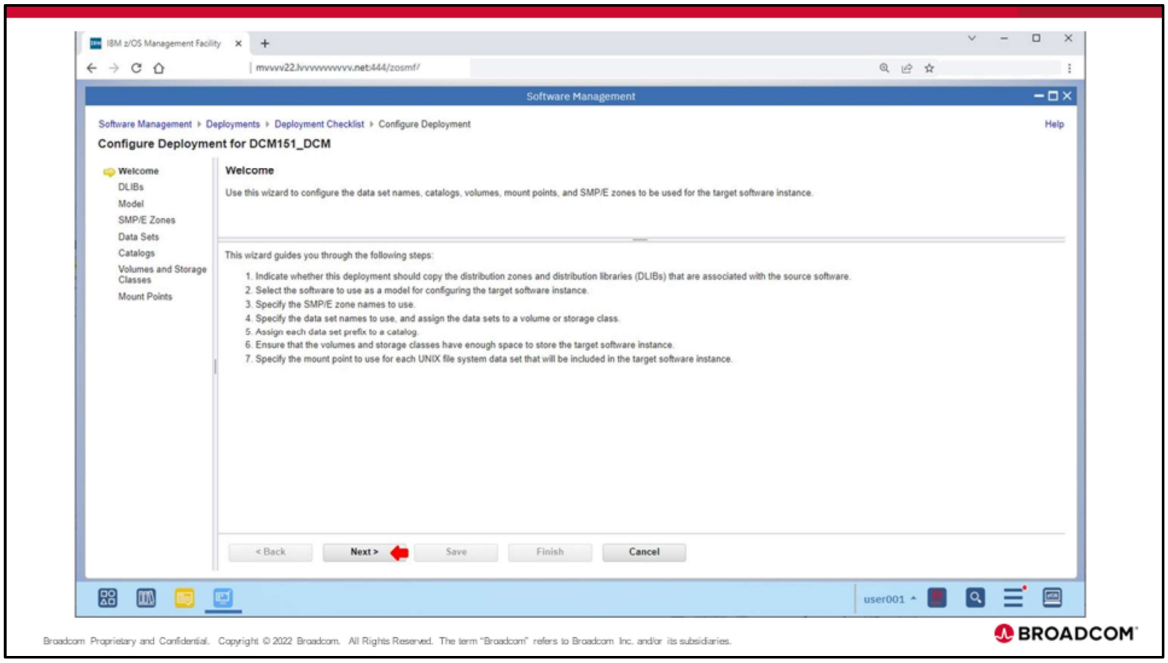
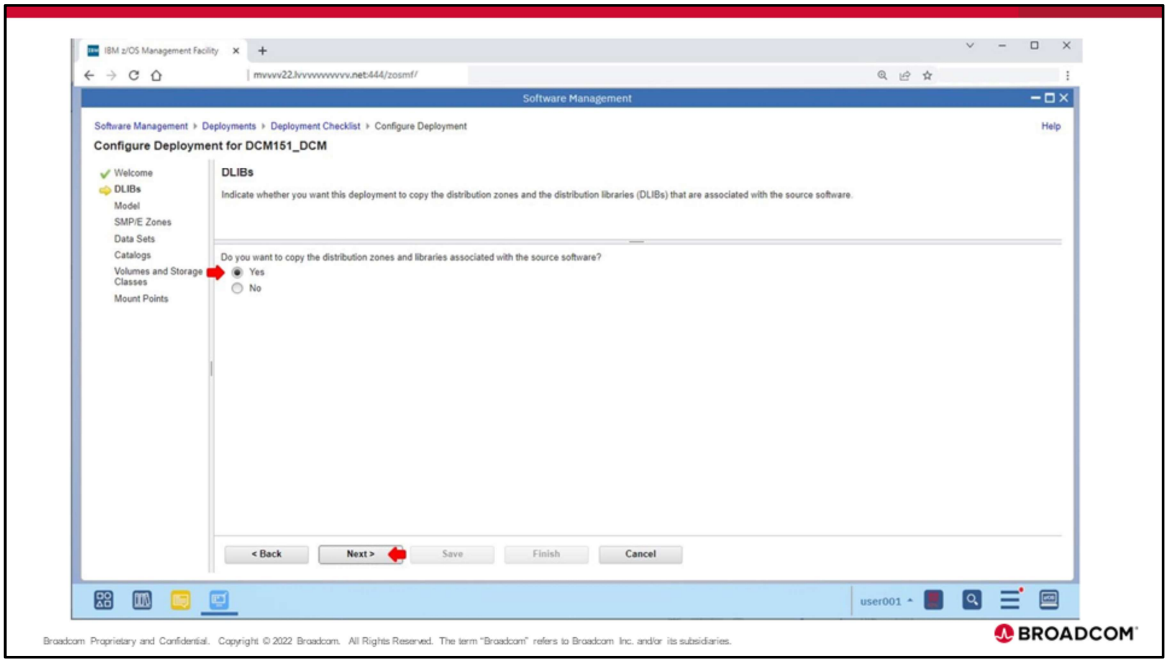


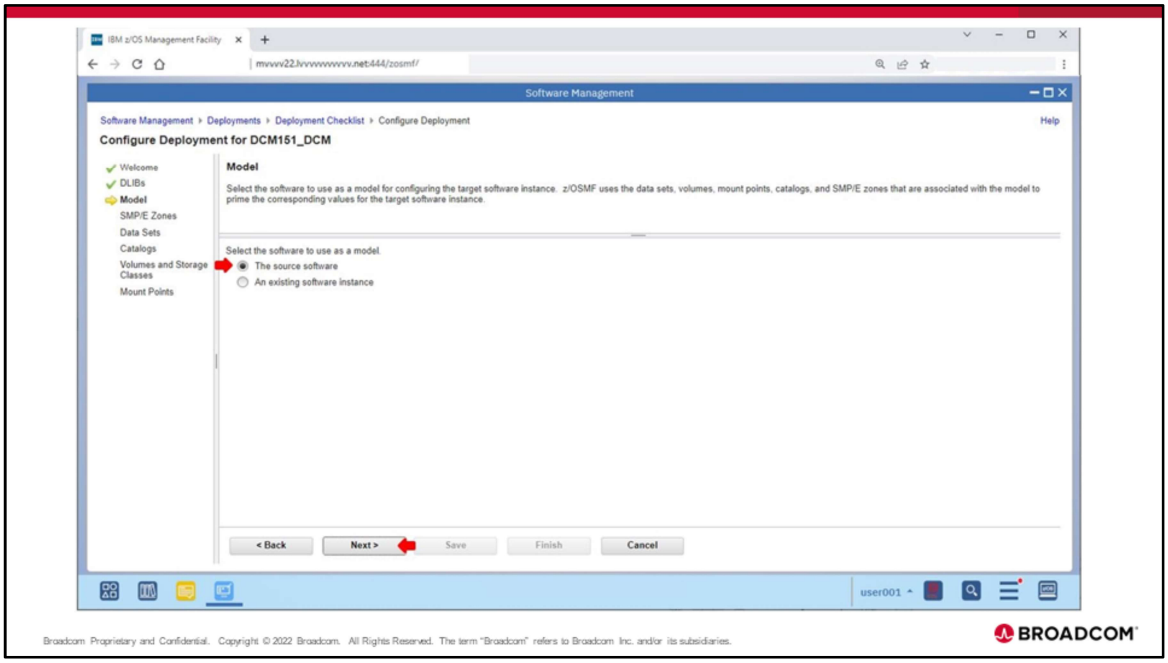
Click on ‘Configure this deployment’ to define the target software instance.



There are 9 steps in the ‘Configure Deployment’ for the software instance, review and Click on ‘Next’ to proceed.

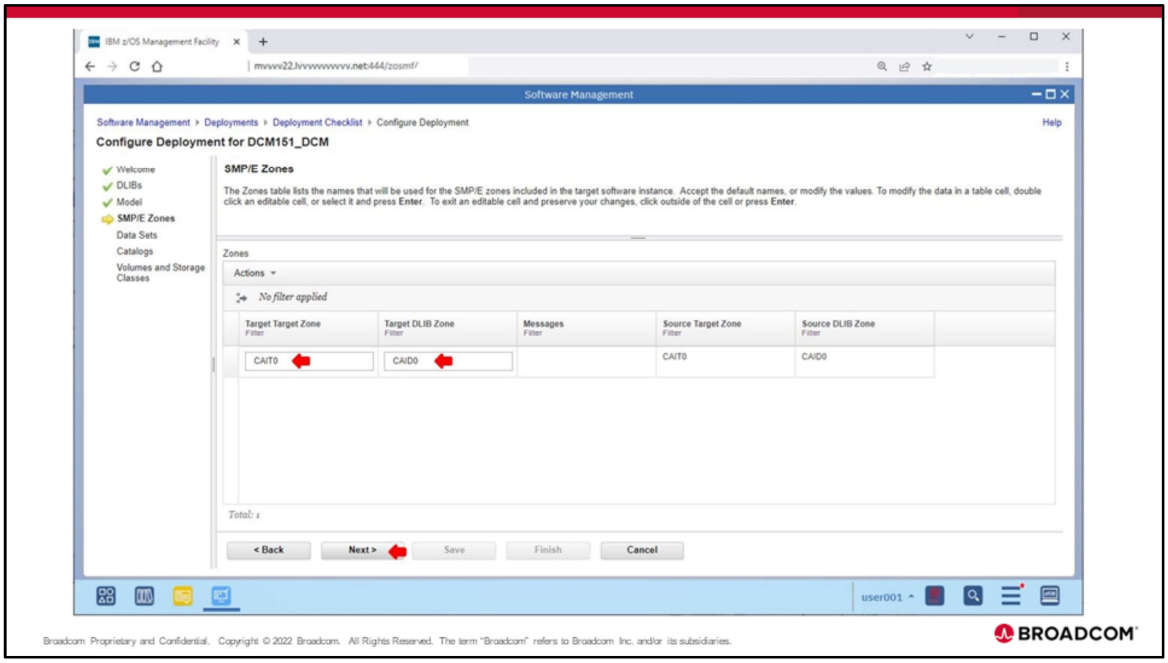


For **DLIBs**, specify **Yes** to copy the distribution zones and libraries that are associated with the source software. The names and the storage class or volumes of the new data sets can be customized in a later step. Click on ‘Next’

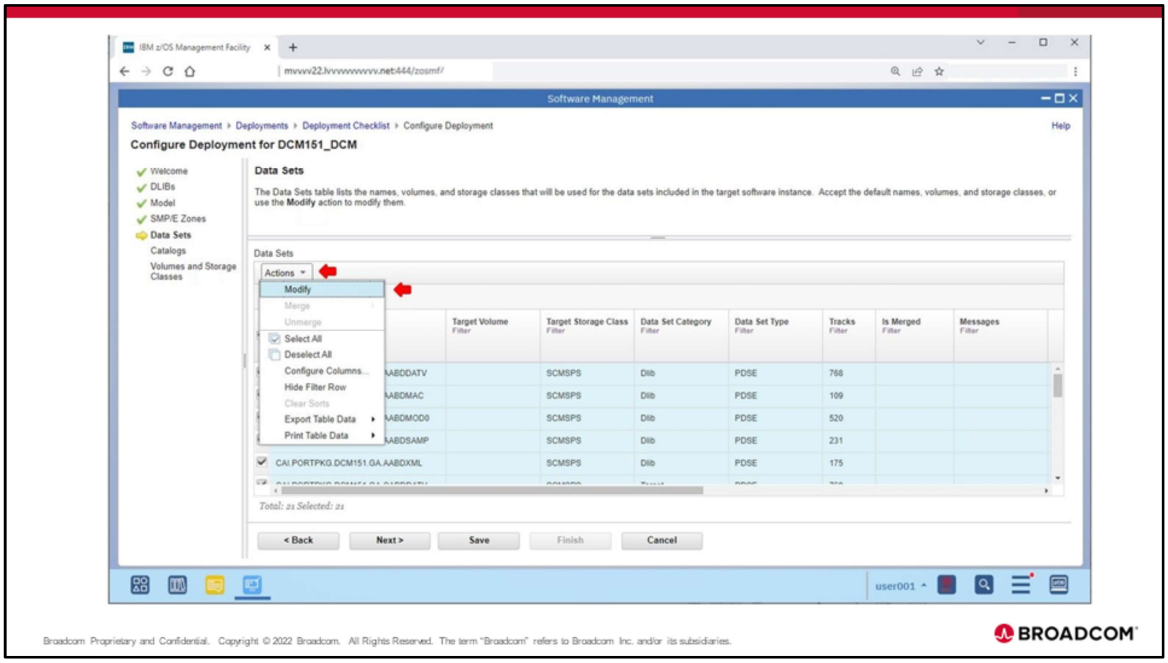


For **Model**, check **The source software** to use as a model. z/OSMF uses the data sets, volumes, mount points, catalogs, and SMP/E zones that are associated with the model to specify default values for the target software instance. Click on 'Next'.

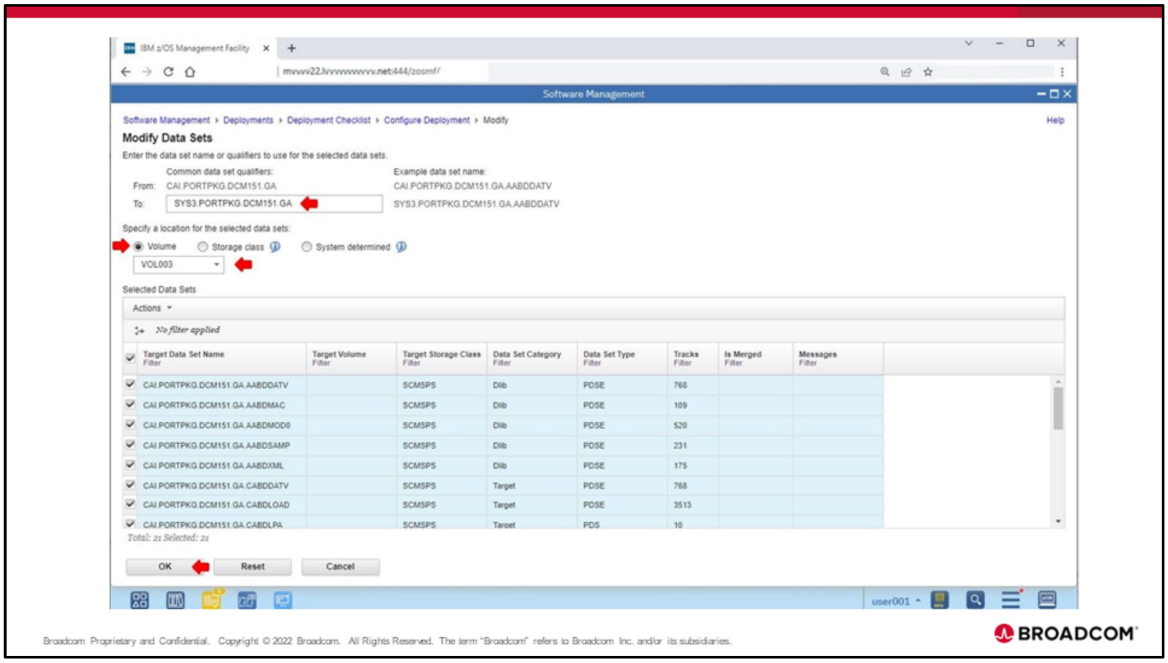
If the objective is to replace an existing software instance, the existing instance is used as the model, in this example we this a new deployment of new portable software instance.



For **SMP/E Zones**, use the default DLIB and TLIB names or modify as required . Click on ‘Next’



To modify the default Data Set names and volume/storage class, click ‘Actions’, ‘Select All’, then click ‘Actions’ again and then ‘Modify’.



To change the defaults, for **Data sets**, change the target data set name prefix to the one that you want to use for your deployment. Specify a volume or storage class to identify where to create the target data sets. Click ‘OK’ to make the changes.

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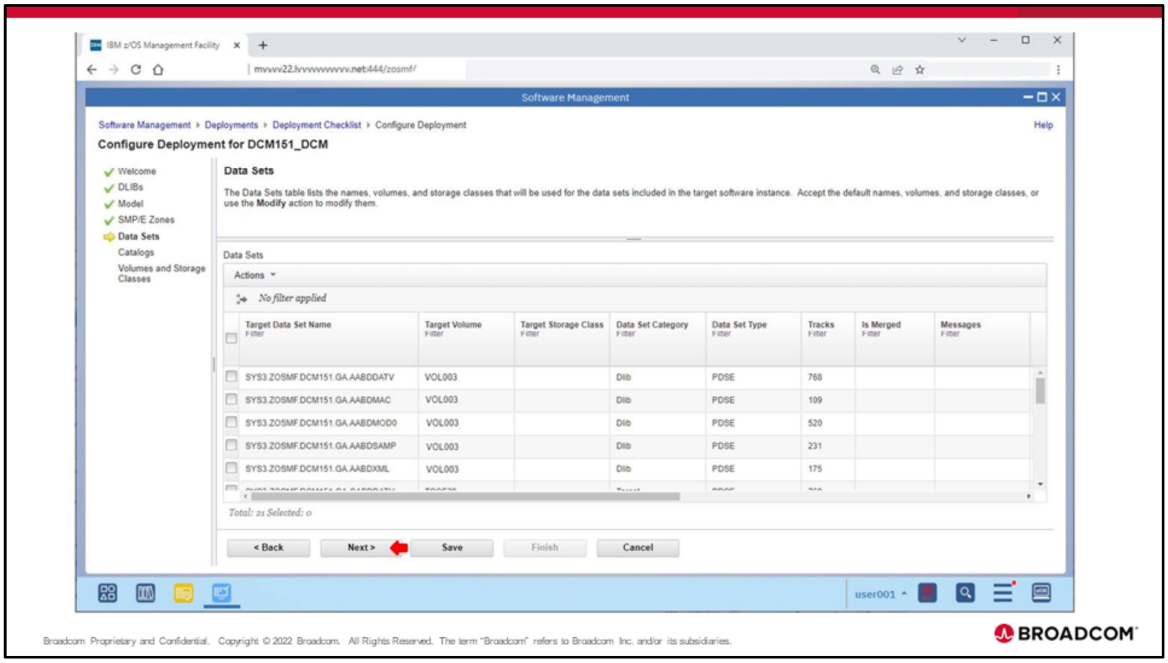
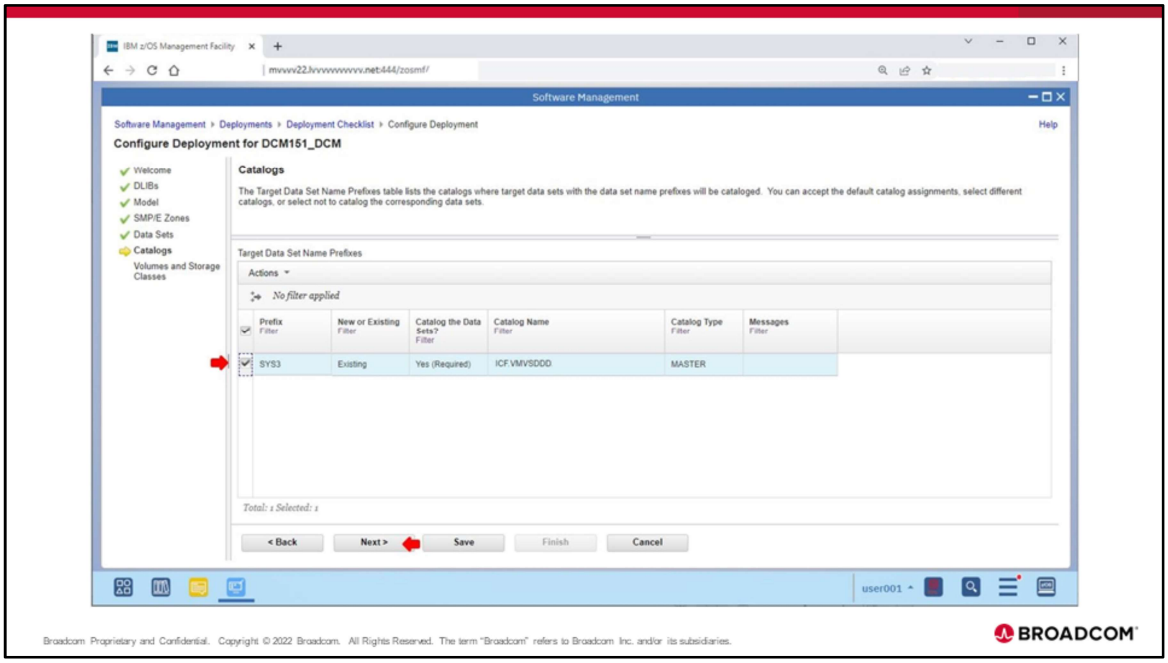
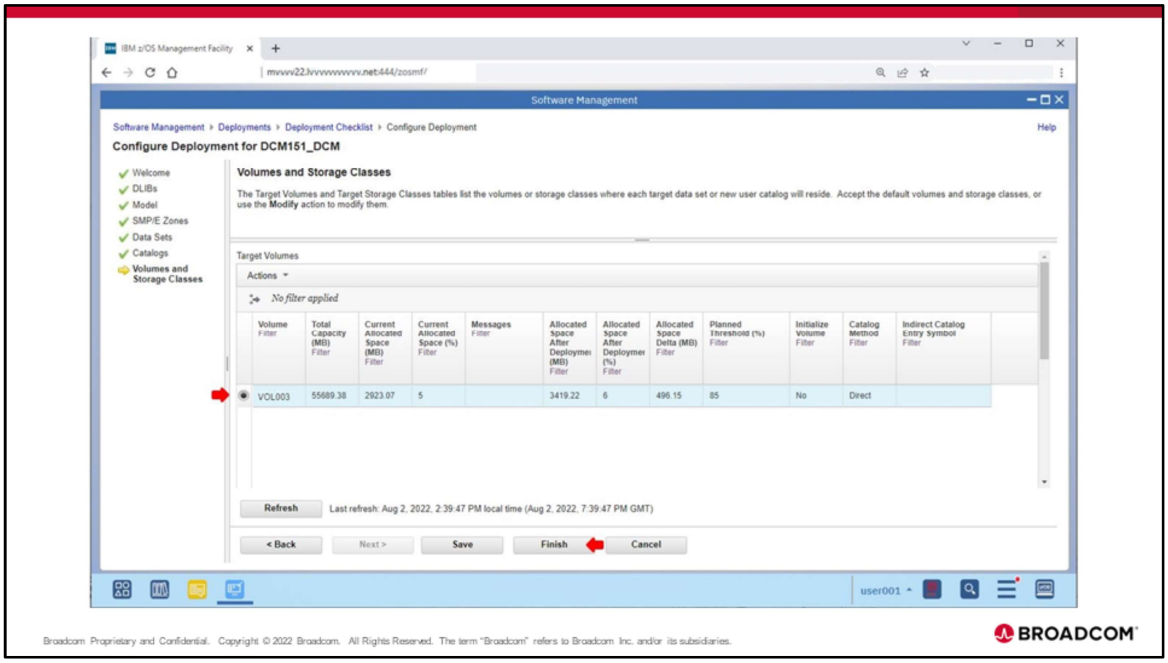


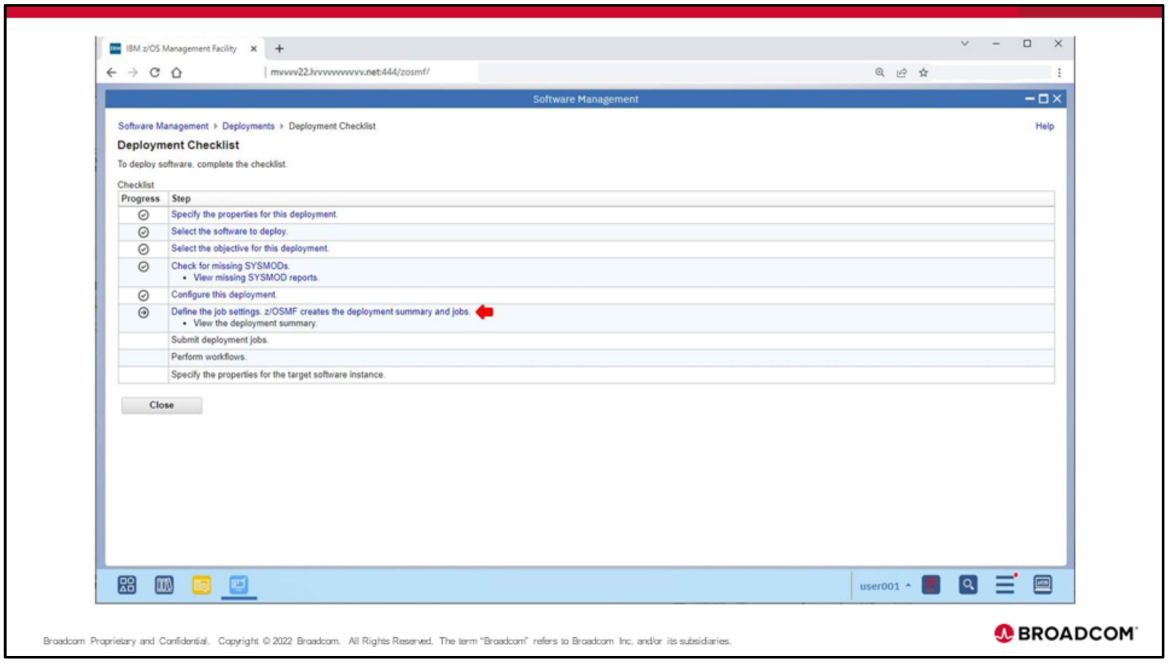
Verify the changes and click ‘Next’ to continue.



For **Catalogs**, no action is required assuming that your target data set prefix is defined in a user catalog. Click on prefix, then ‘Next’



A summary is presented of the target data sets to be created and how much space is required. If there are no ‘Messages’ click ‘Finish’



Click on ‘Define the job settings. z/OSMF creates the deployment summary and jobs.’ to define the job settings to generate JCL to install the software and view the deployment summary.

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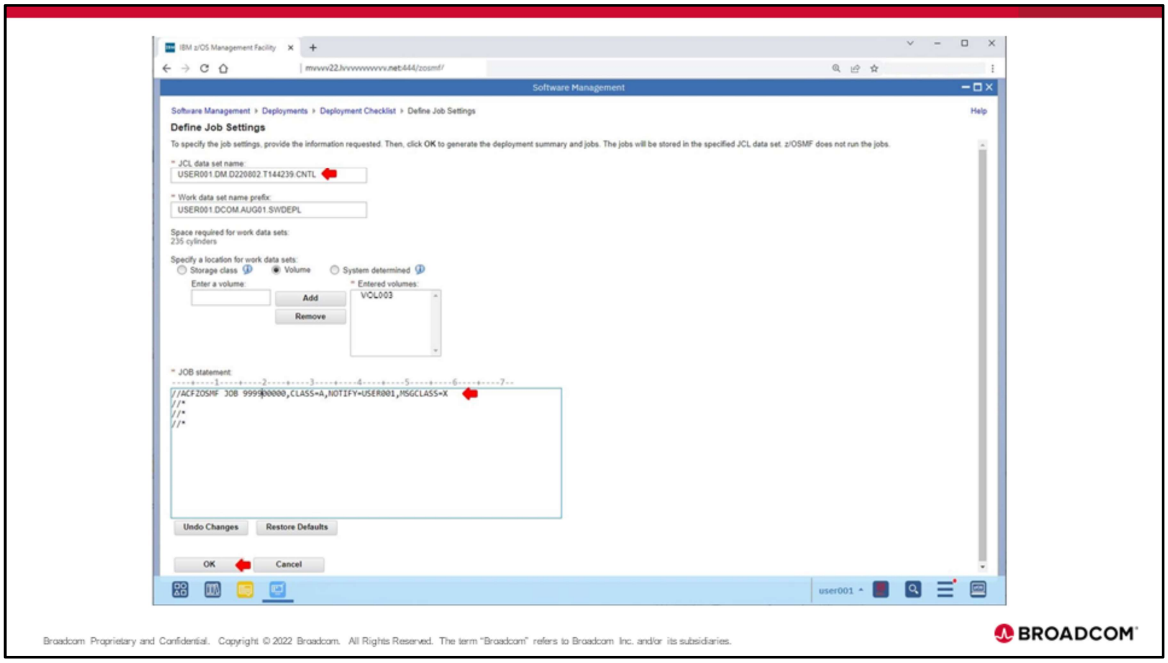

Use the default ‘JCL data set name:’ and or ‘Work data set name prefix:’ or update with the desired data set names. Update the ‘location for work data sets’ as needed, update the ‘Job’ statement as needed, then click ‘OK’.
Note: Some product installations may require a larger regions size for the deployment jobs, to avoid potential issues add REGION=0M to the job statement.

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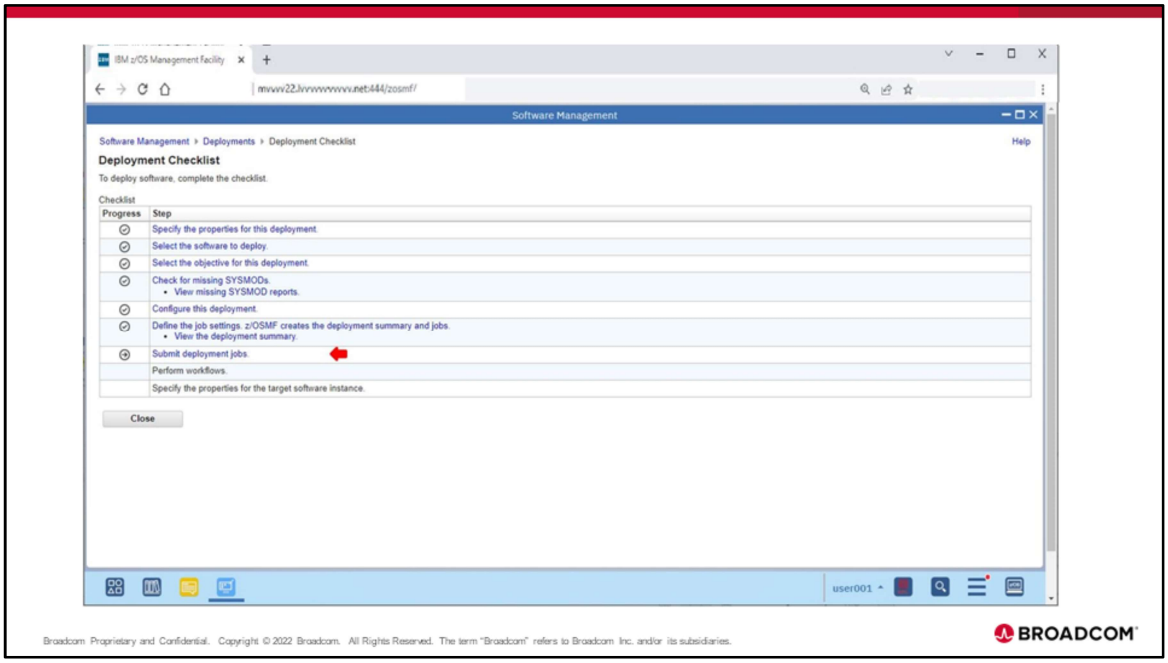
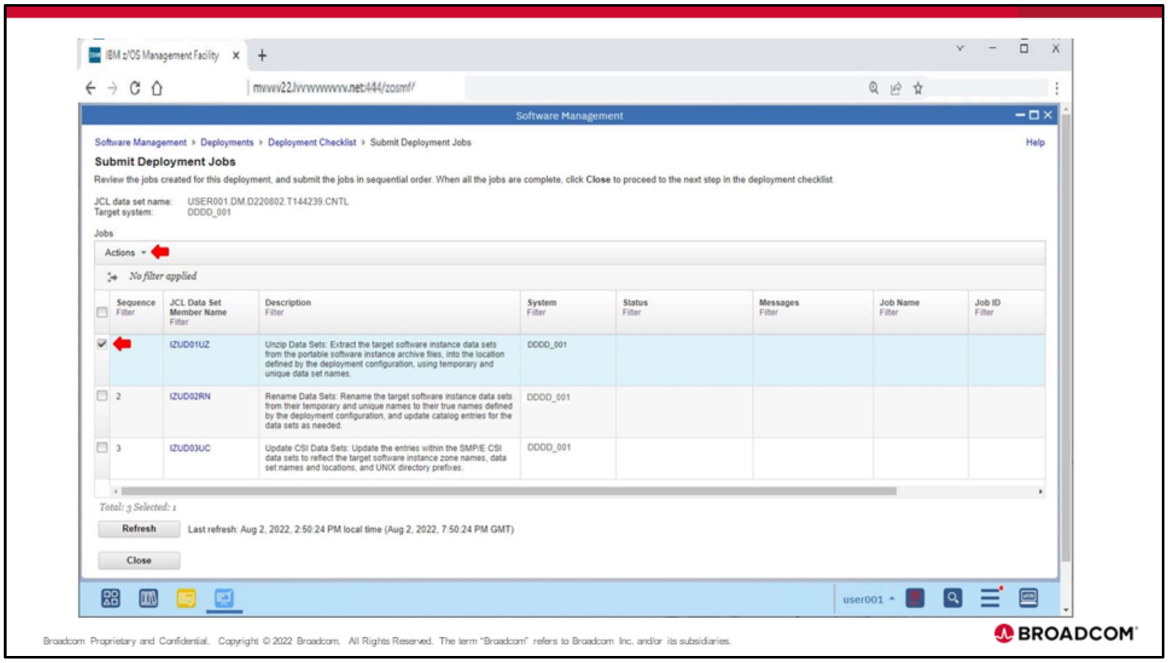
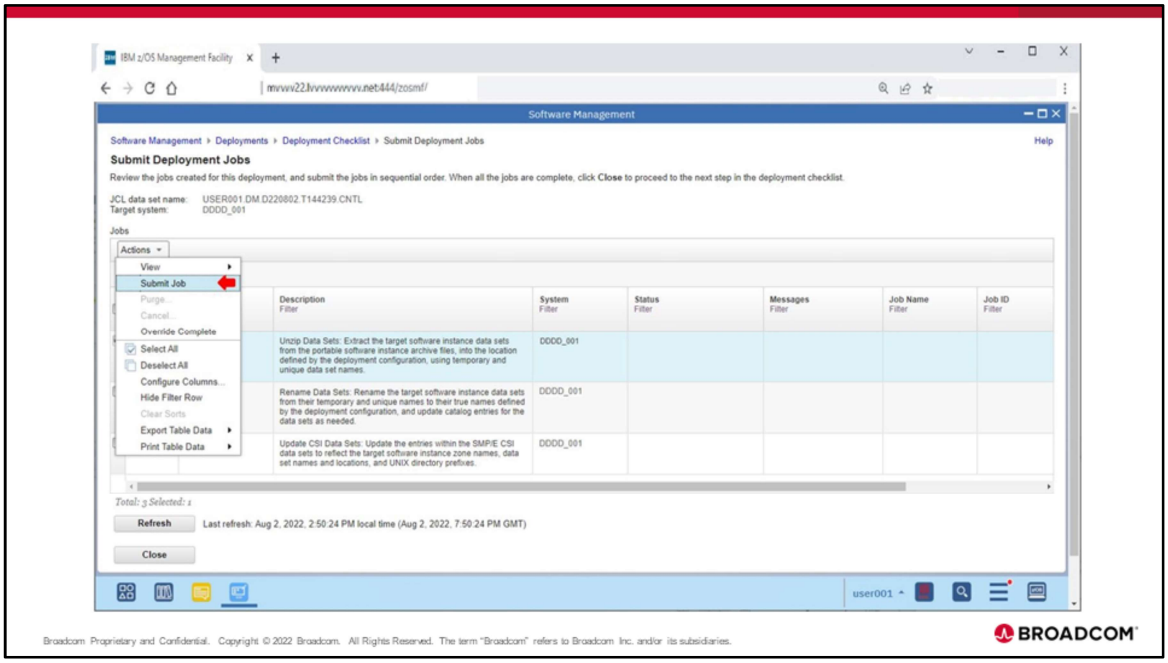


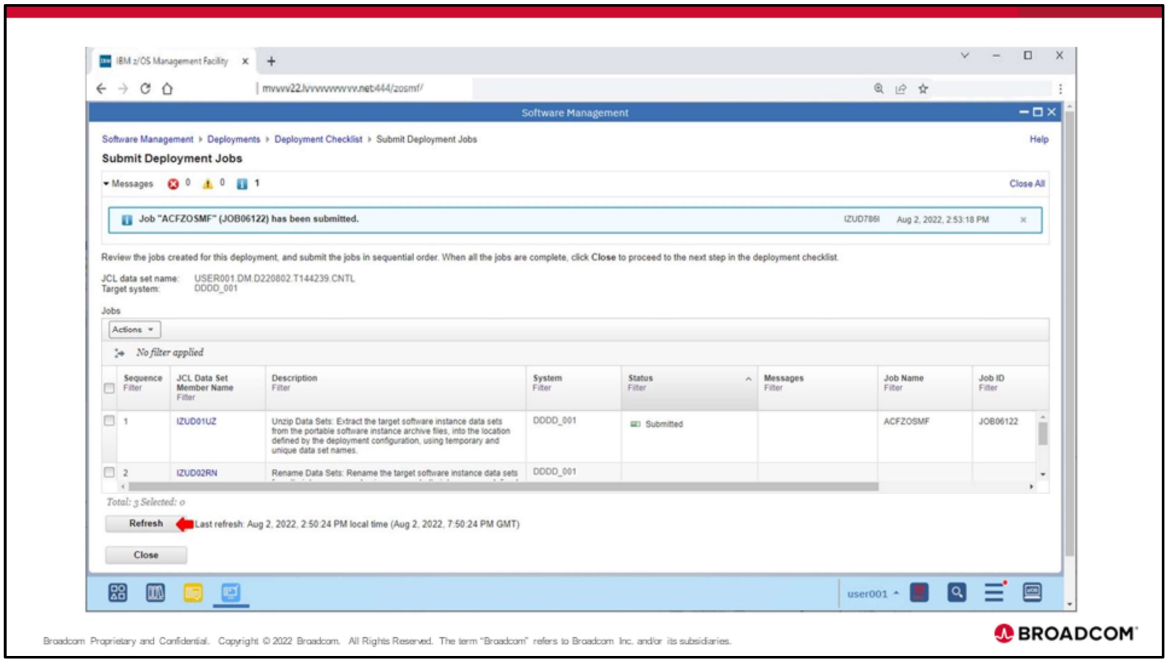
Click on ‘Submit Deployment Jobs’.



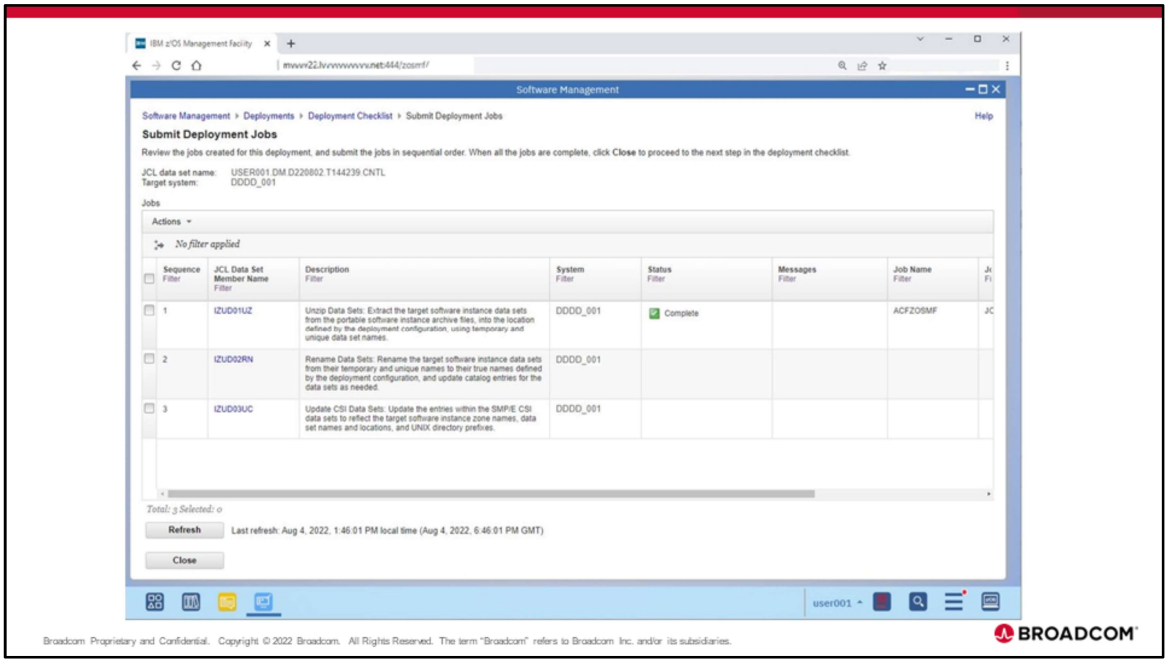
From ‘Submit Deployment Jobs’ we can see that there are 3 deployment jobs, select the first job, then click on ‘Action’.



Click ‘Submit Job’ to submit the first deployment job.



'Submitted' will display under the 'Status' column, note the 'Job ….. has been submitted' message in blue, wait for each job to complete, click on **Refresh** to check for job completion in z/OSMF.



Status ‘Complete’ indicates the job completed with a zero return code. Possible status values:
Canceled
Complete
Warning
Error
In Progress

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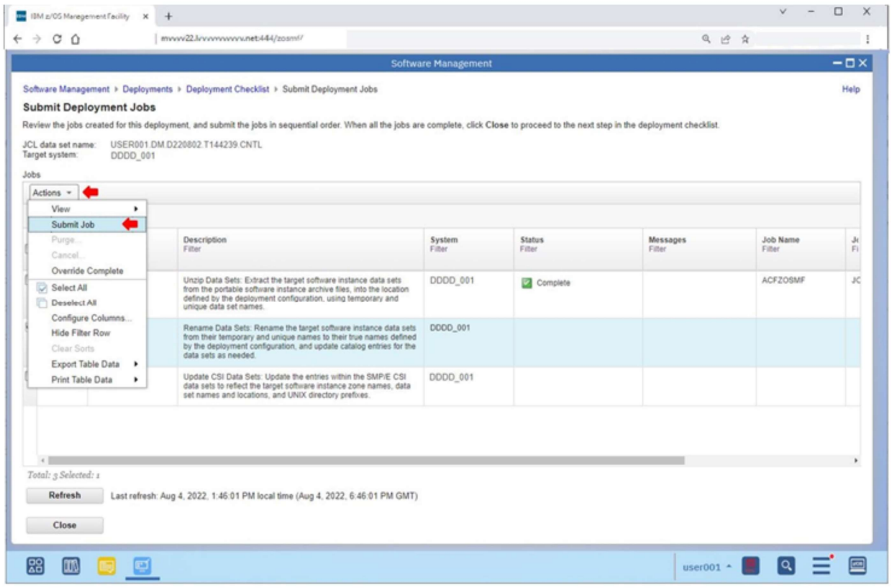

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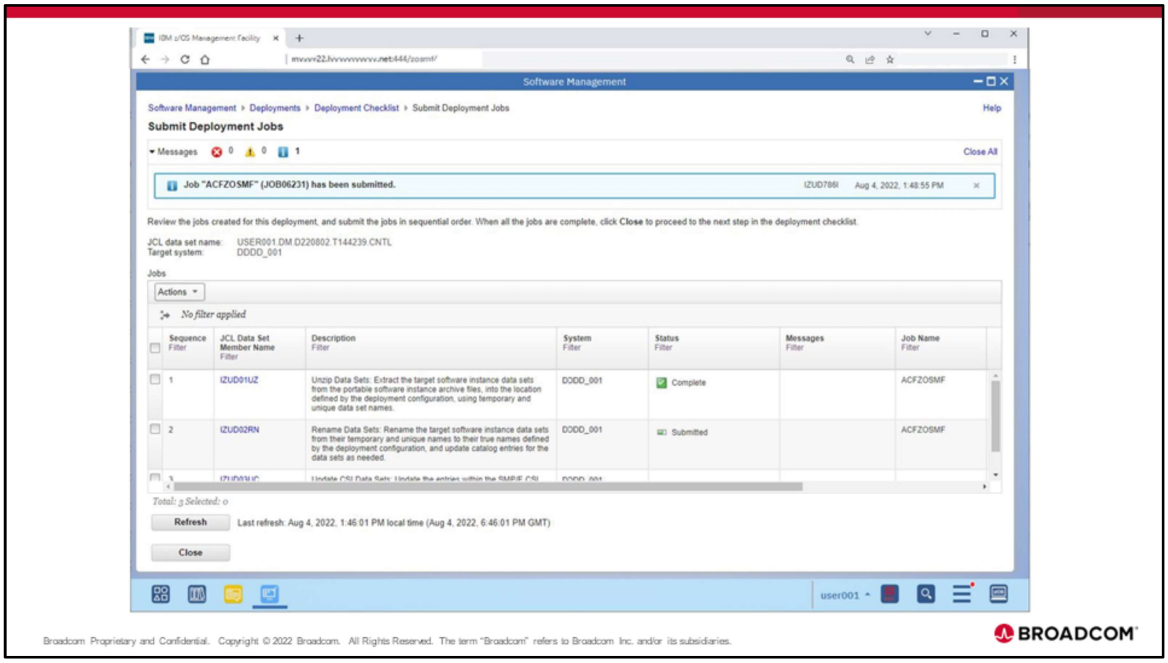
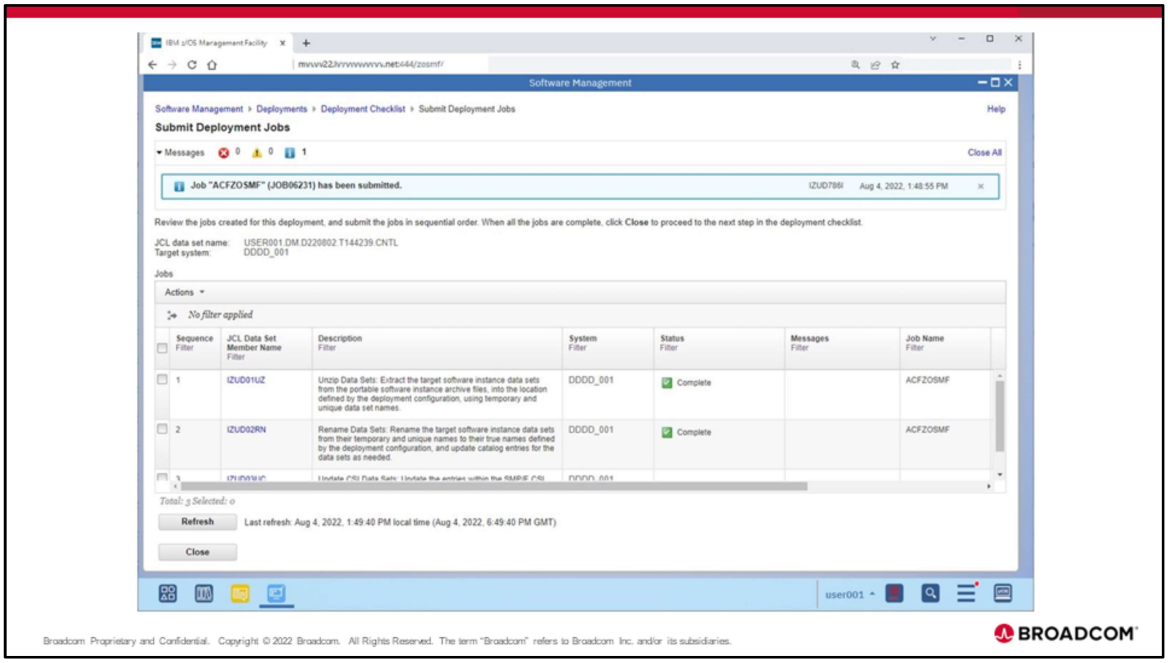
After successful completion of the first deployment job, follow the same procedure for the second deployment job.



Note the ‘Status’ ‘Submitted’ for the second deployment job. click on **Refresh** to check for job completion in z/OSMF.



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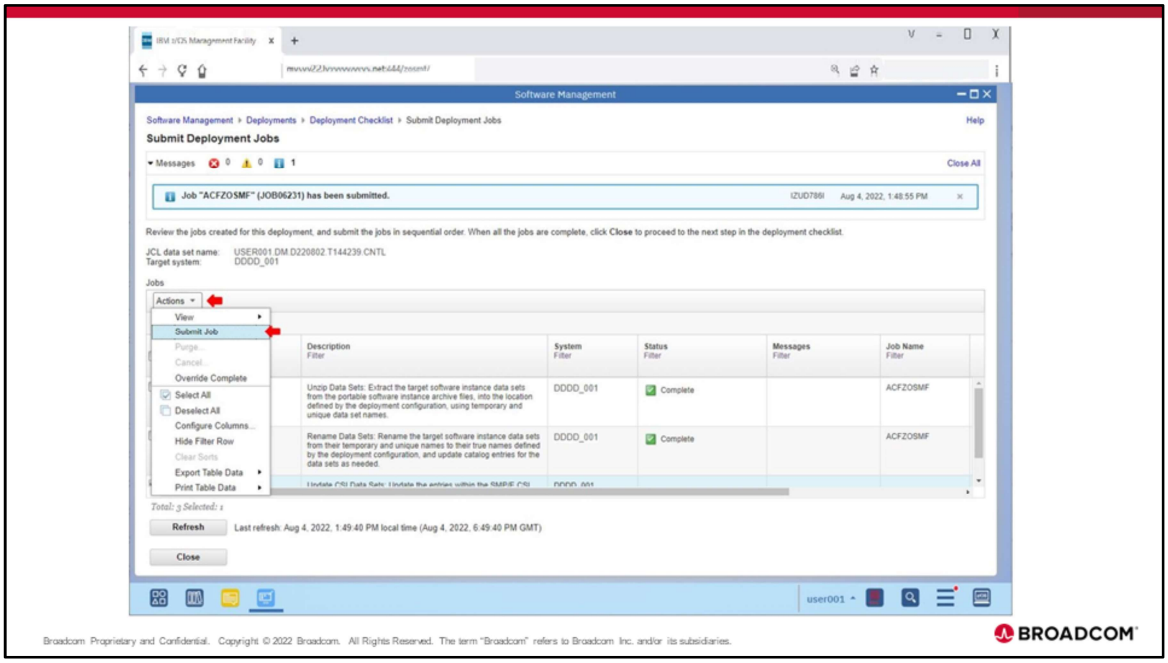
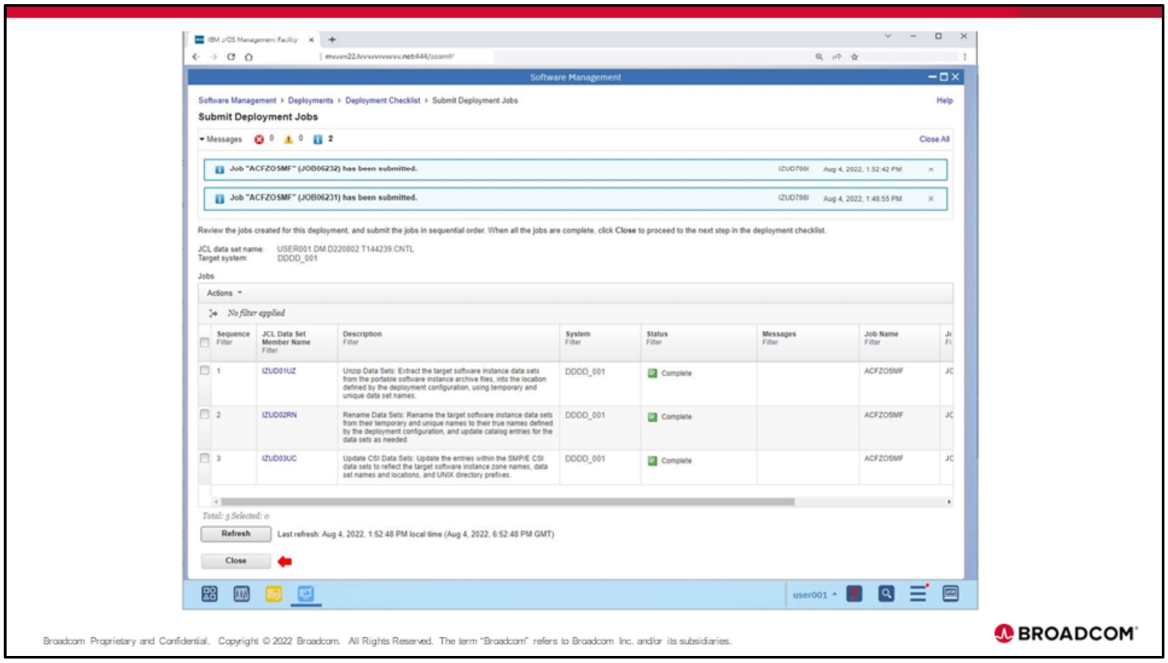
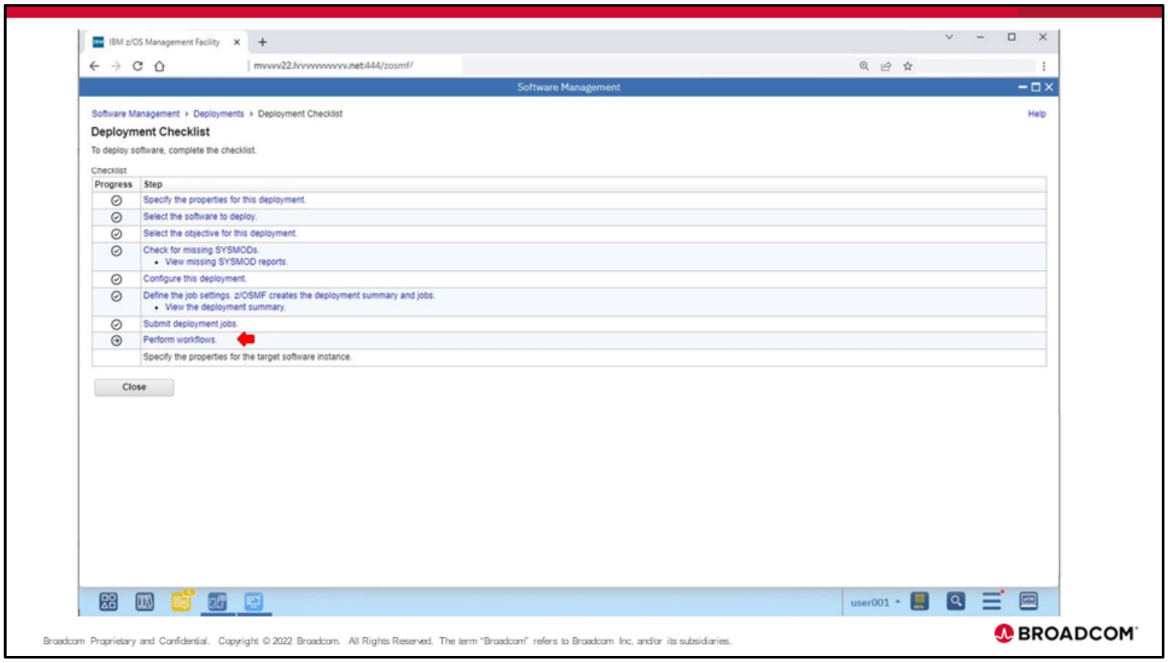
Status ‘Complete’ indicates the second deployment job completed with a zero return code.



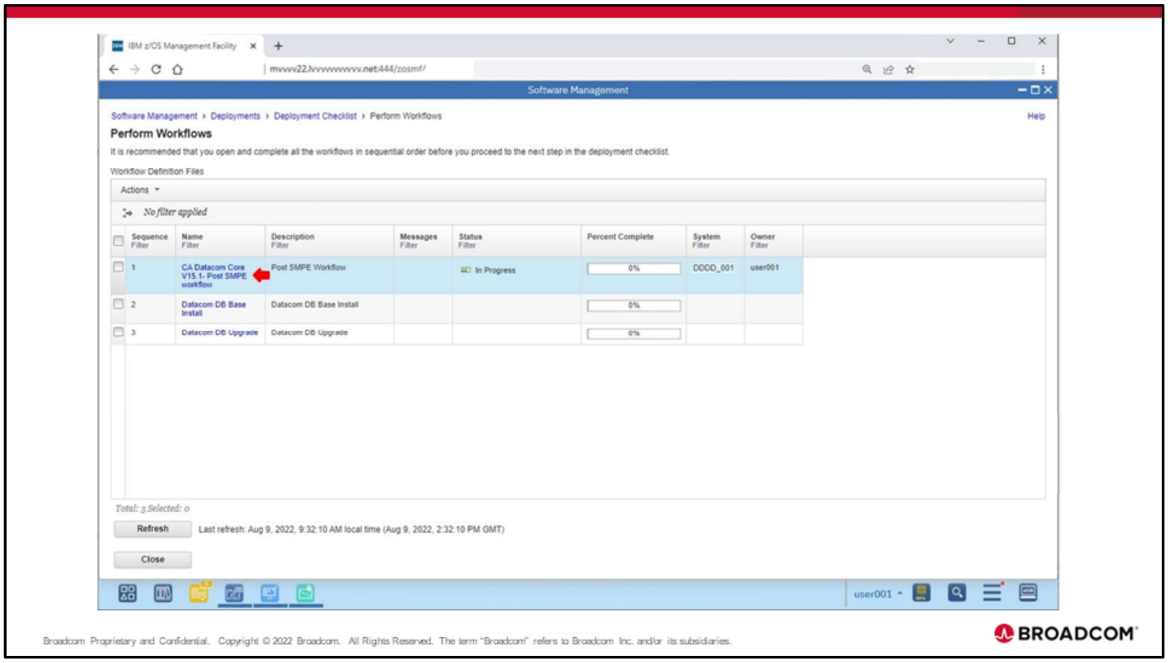
After successful completion of the first and second deployment jobs, follow the same procedure for the third deployment job.



Status ‘Complete’ for all three deployment jobs indicates that the jobs completed with a zero return code. Click on ‘Close’ to continue with the ‘Deployment Checklist’.



Click on the next ‘Perform Workflows’ step.



Most products have at least one of the following workflows:
- Post SMP/E Workflow
  Updates the CSI with site-specific external data sets, relinks load modules, and optionally mounts USS directories.
  Note: If prompted for the data set name of a load library for an IBM product that is not installed, specify your installed
 - Base installation Workflow
   Configures a new software instance for your product software.
- Upgrade Workflow
   Updates an existing software instance for your product to a new product release.
For the Datacom product there are all three workflows.
Click on the Workflow name to proceed with the first Post SMPE Workflow.

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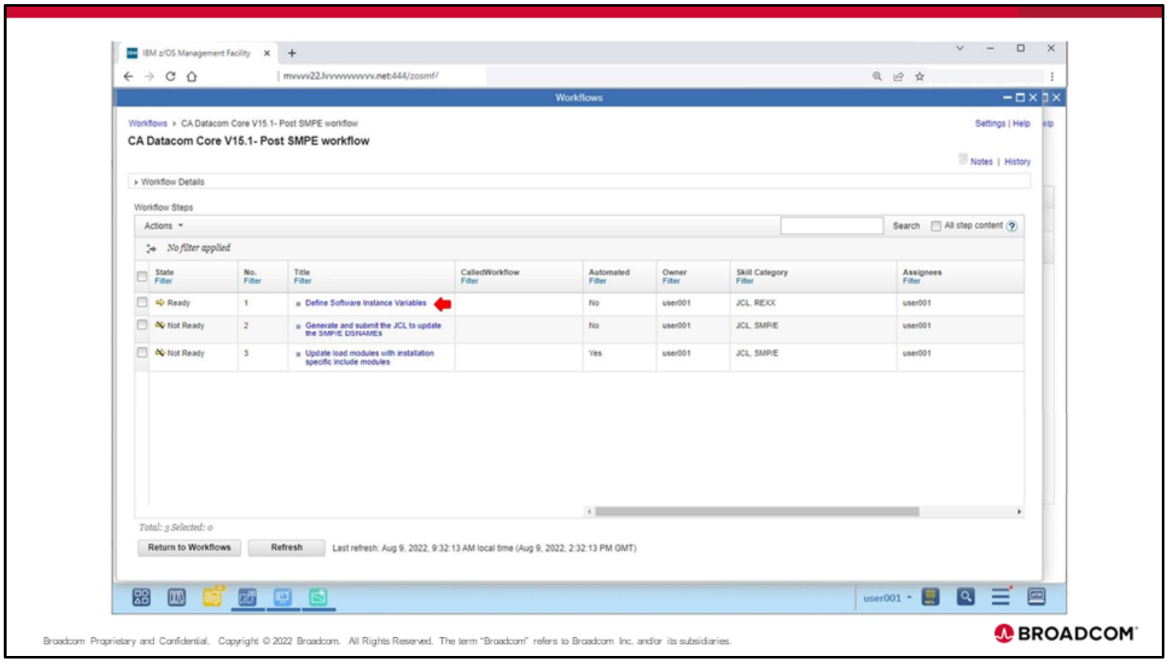
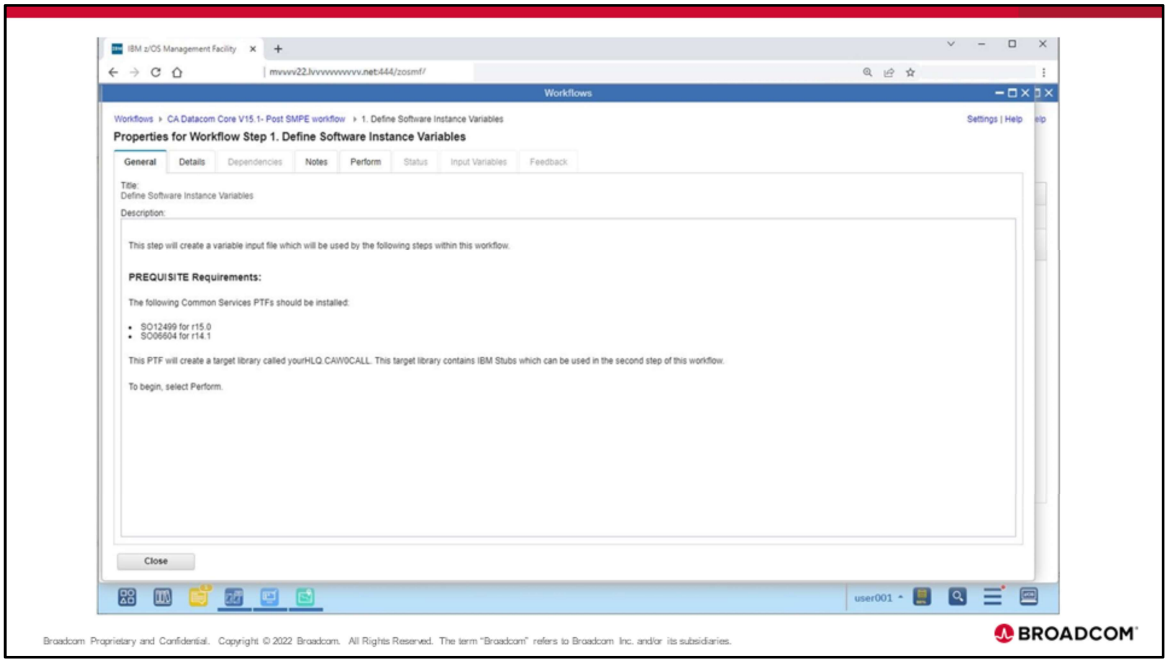
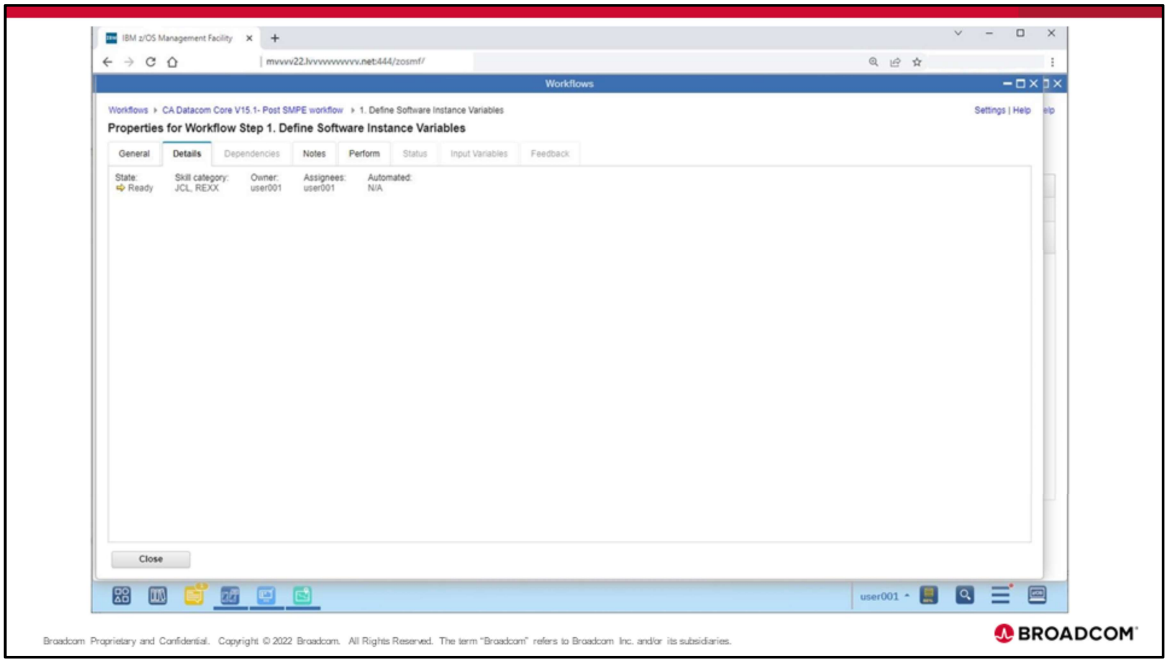


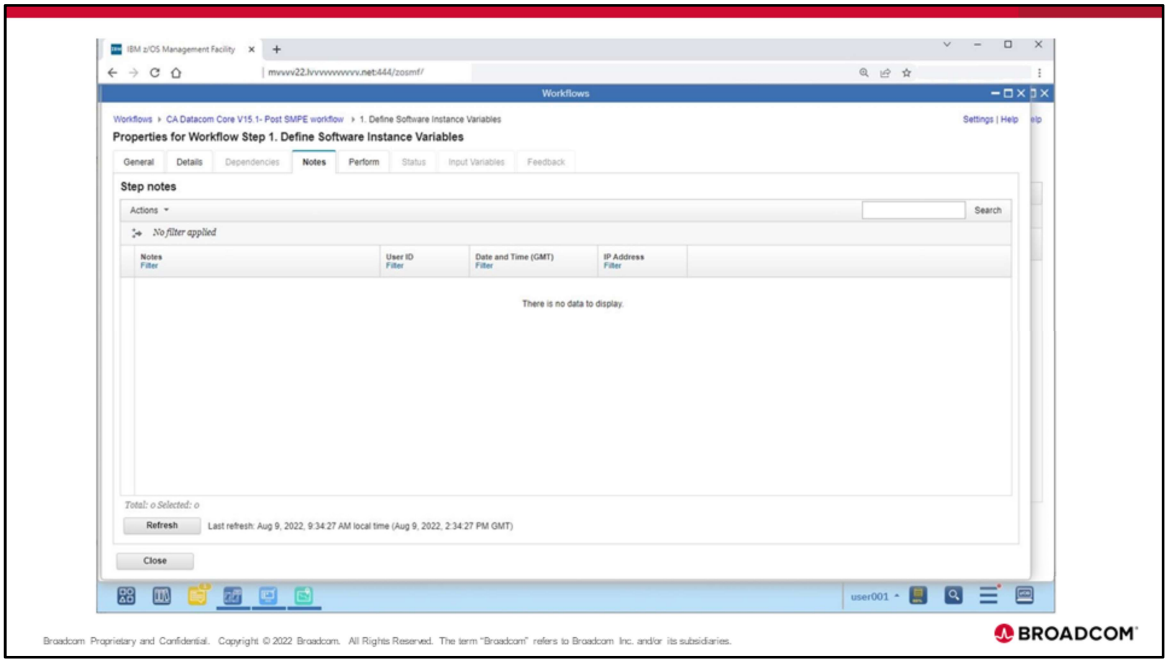
Each Workflow can have multiple steps/jobs. Click on the first step for the Post SMPE workflow to proceed. This step ‘Defines Software Instance Variables’ to be used in the Workflow step 2 JCL.



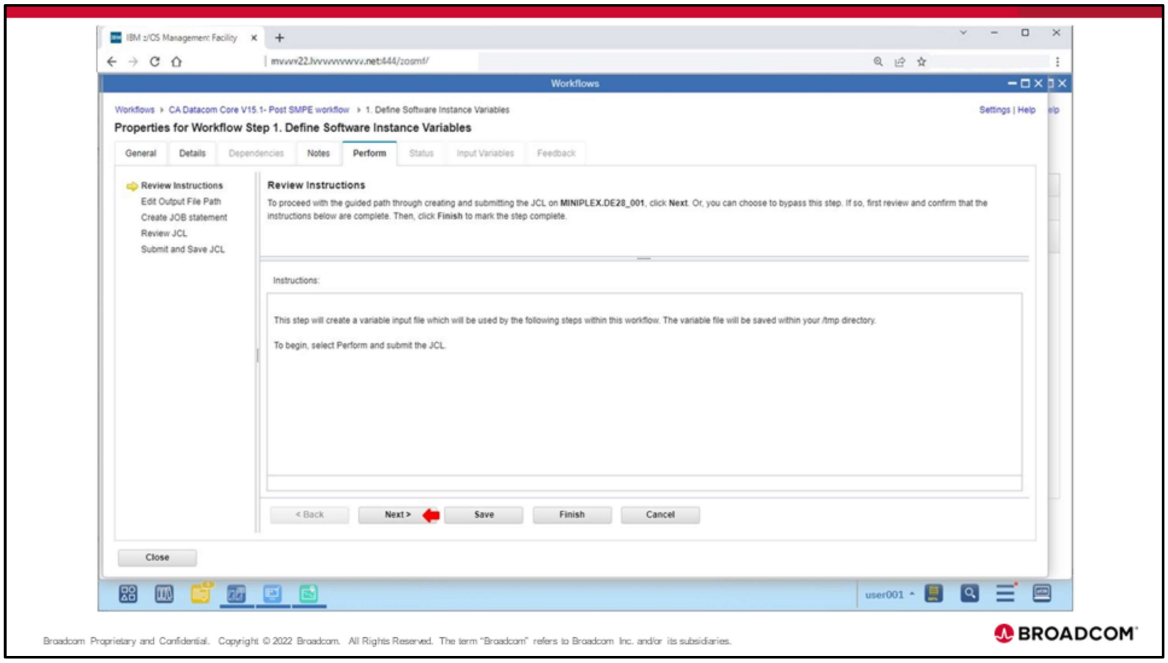
Each Workflow step may have multiple Properties that need to be reviewed or updated. Here is the ‘General’ properties that describe perquisite requirements.



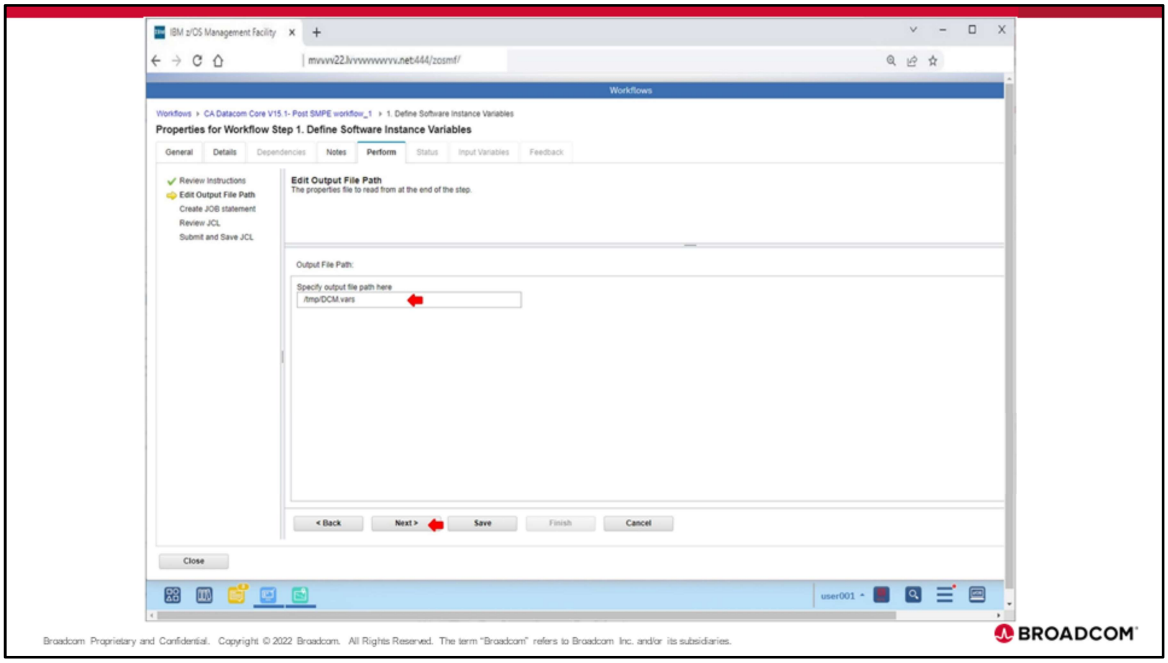
Here is the ‘Details’ properties that describe Workflow step details.



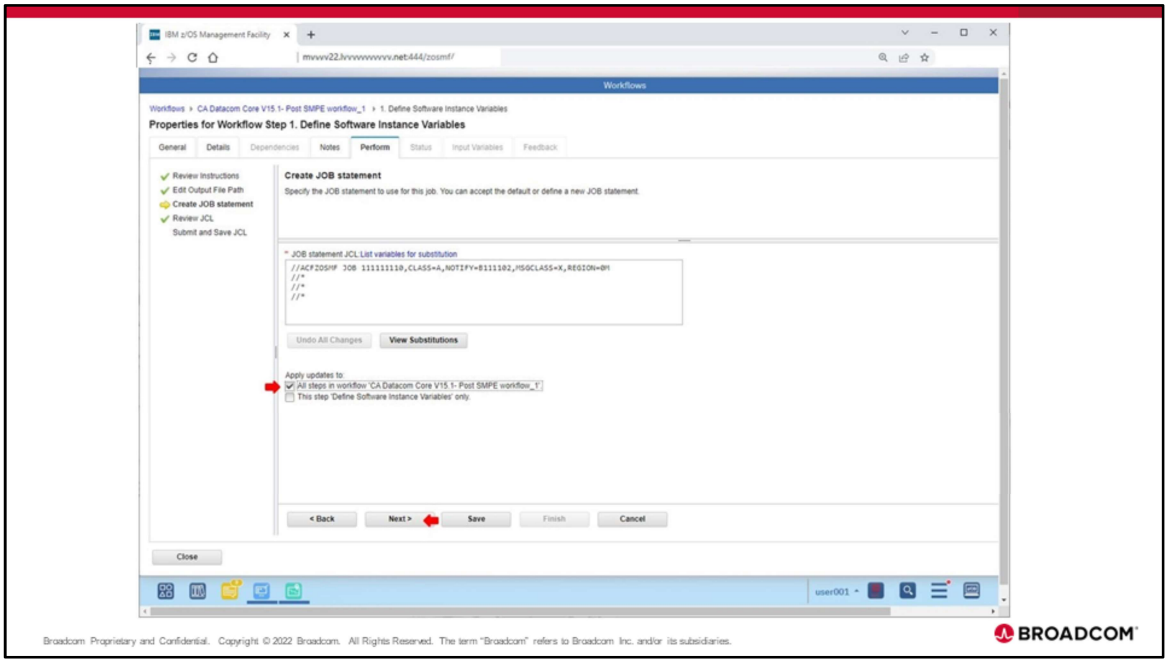
Here is the ‘Notes’ properties that describe Workflow step Actions that may be required. For this step there are no notes.



Here is the ‘Perform’ properties that Defines the Software Instance Variables for the next Workflow step. Click on ‘Next’ to ‘Edit Output File Path’.



Here is the ‘Perform’ properties for Workflow Step 1 which has 4 steps, the first step Edits the Output File Path that will be used in Workflow Step 1. Review the update the path name as required, then click ‘Next’ to proceed.



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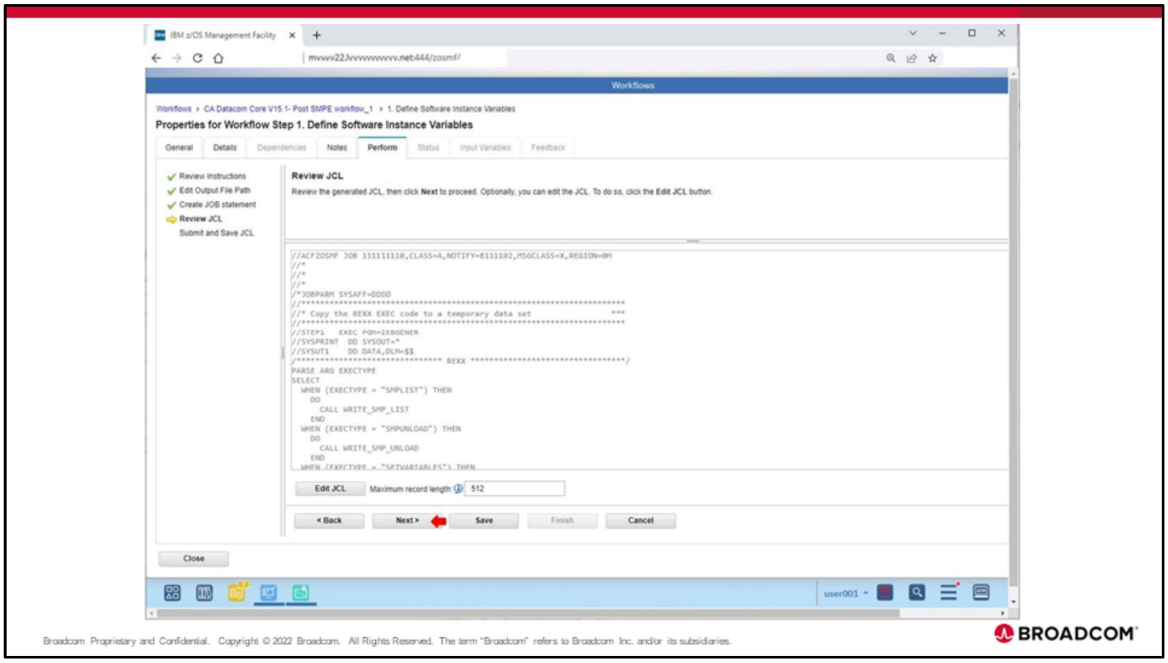
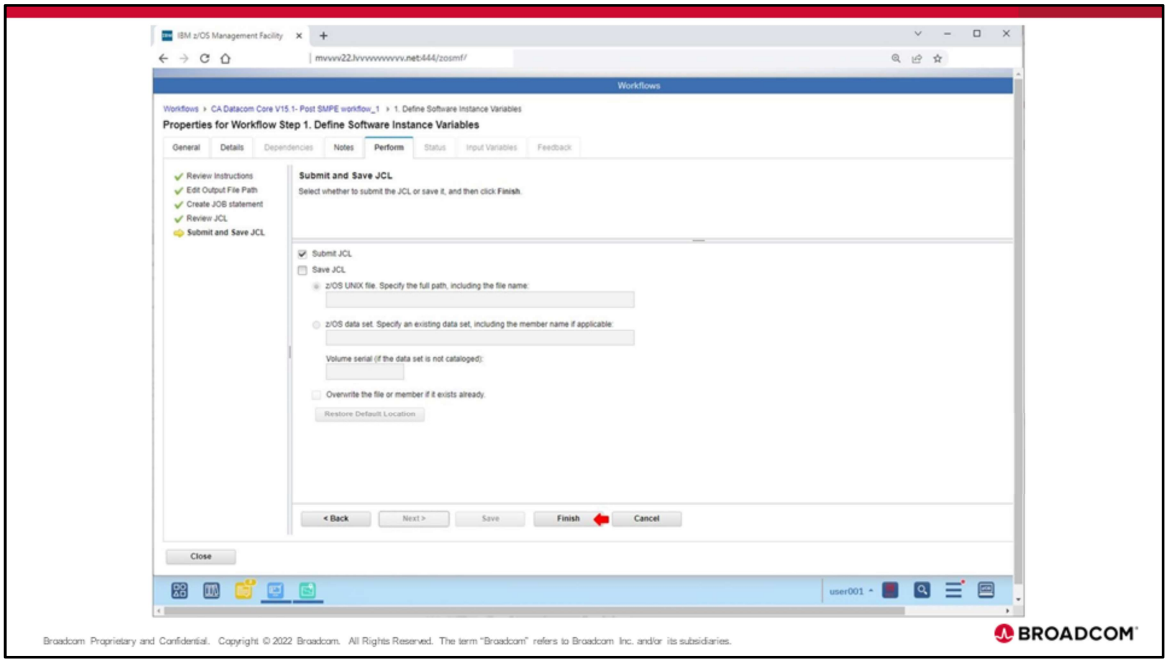
Here is the ‘Perform’ properties that creates the JOB statement. Check ‘Apply updates to’ ‘All steps in …’. Review the Job Statement and update as required, then click ‘Next’ to proceed.



Here is the ‘Perform’ properties that Defines the Software Instance Variables. Review the JCL and update as required, then click ‘Next’ to proceed.



Here is the ‘Perform’ properties that Defines Software Instance variables for the next Workflow step. The JCL can optionally be saved to a z/OS Unix file or a z/OS dataset by checking on ‘Save JCL’ and specifying the location. To submit the JCL, check ‘Submit JCL’ and click ‘Finish’.

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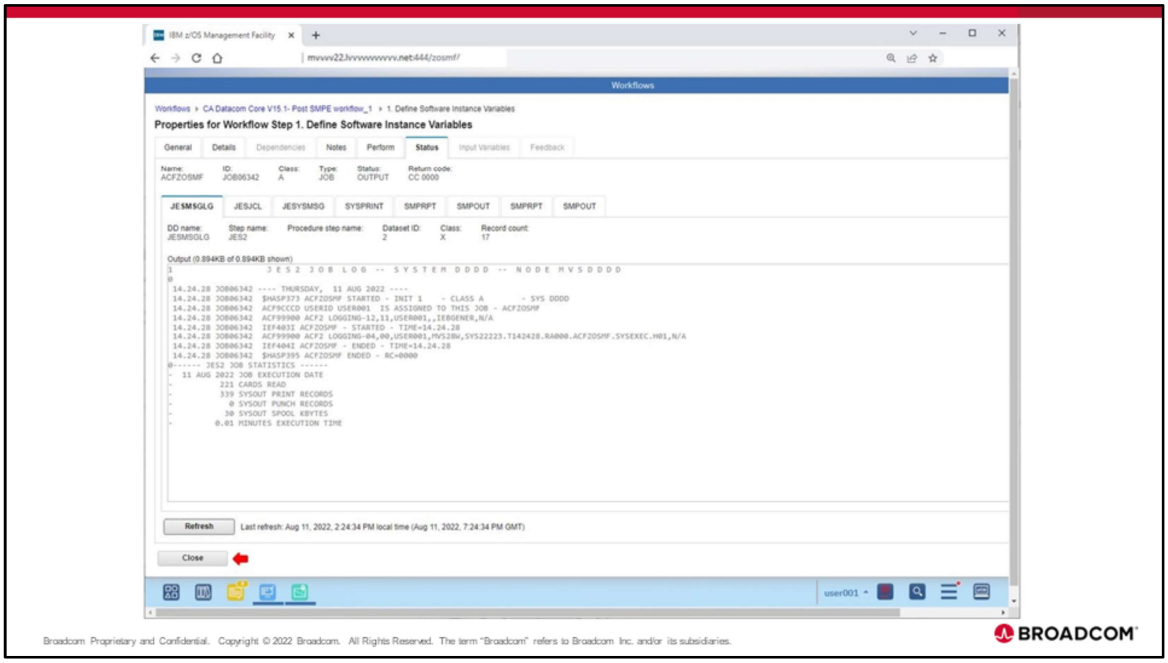
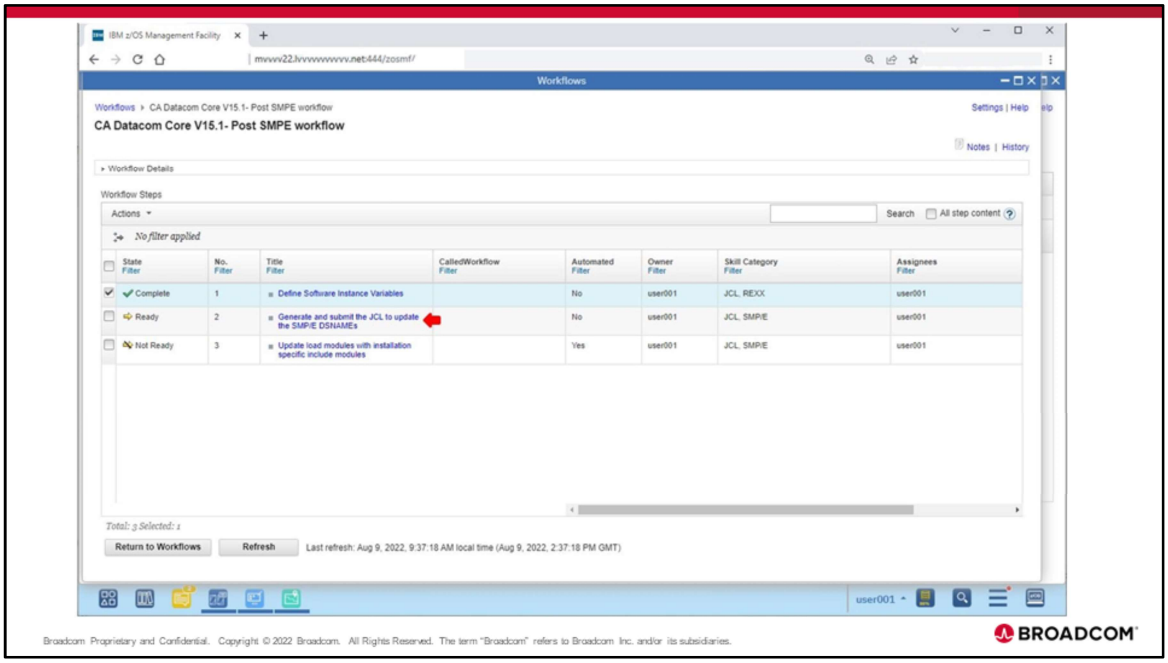
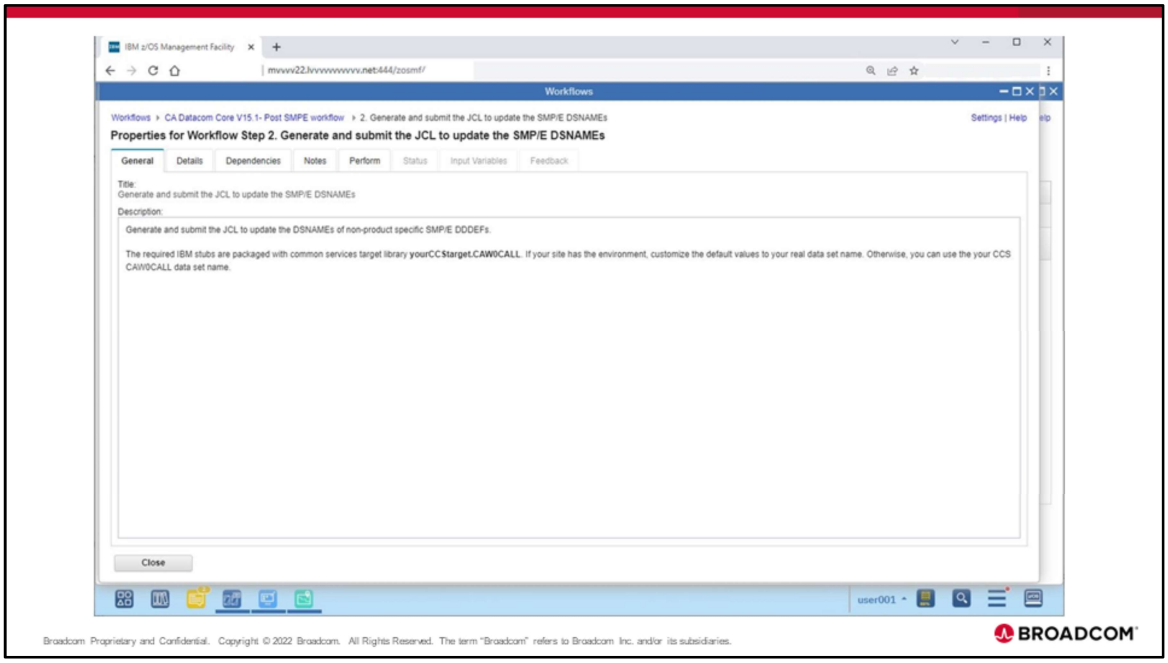


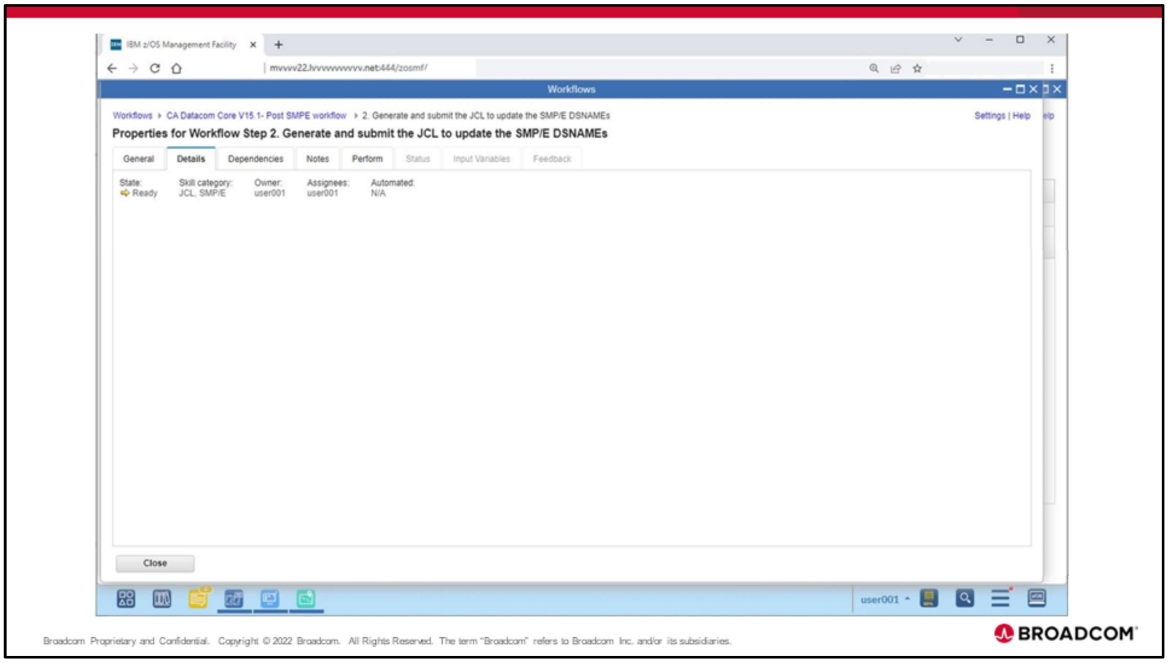
After submitting the job wait until the job completes and the Status is updated with the completion code. Click ‘Refresh’ to update the Status. After getting complete code 00, click ‘Close’ to complete Workflow step 2.



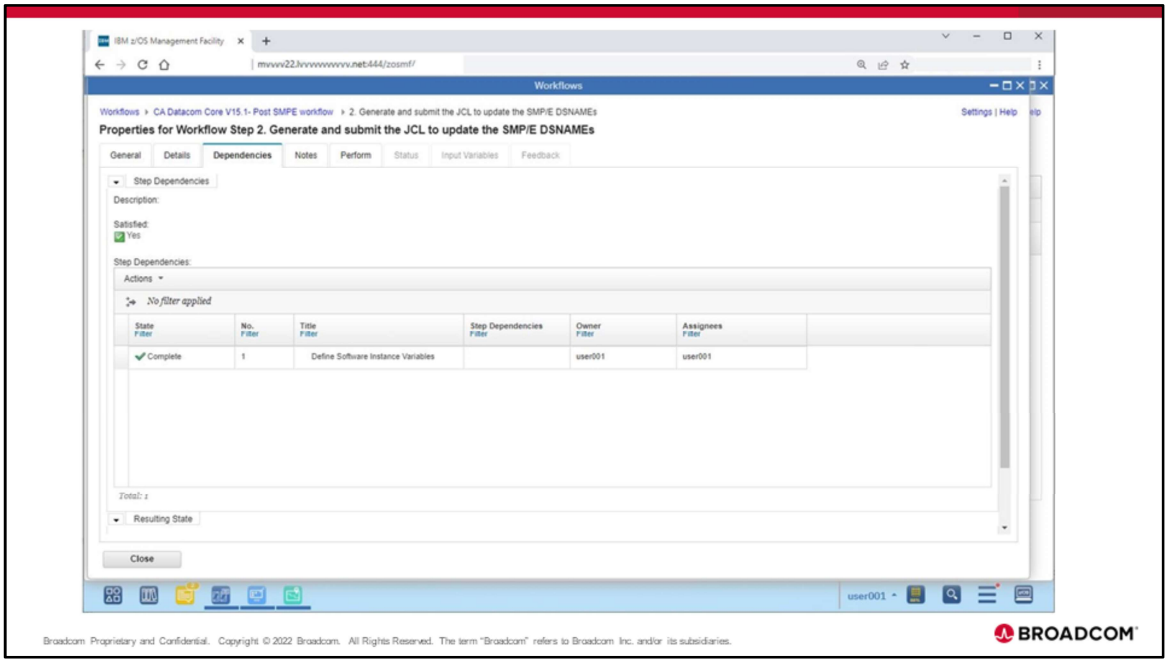
Each Workflow can have multiple steps/jobs. Click on the second step Title ‘Generate and submit the JCL to update the SMP/E DSNAMEs.’ for the Post SMPE workflow to proceed.



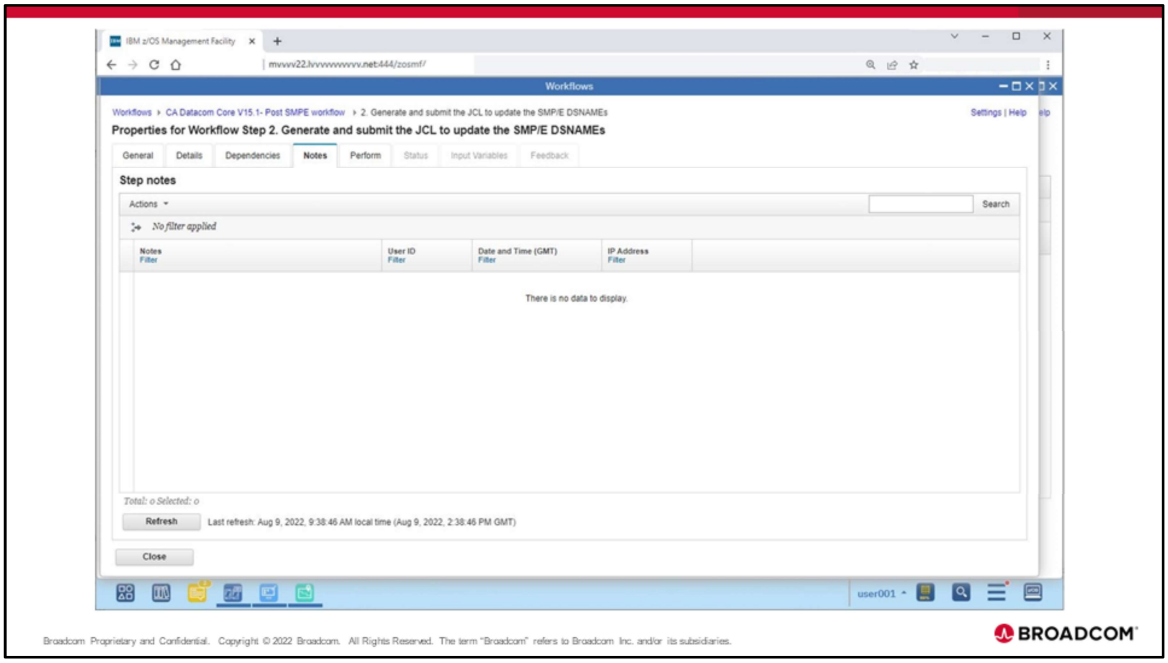
Once again we see that each Workflow step may have multiple Properties that need to be reviewed or updated. Here is the ‘General’ properties that describe configures the Workflow JCL.



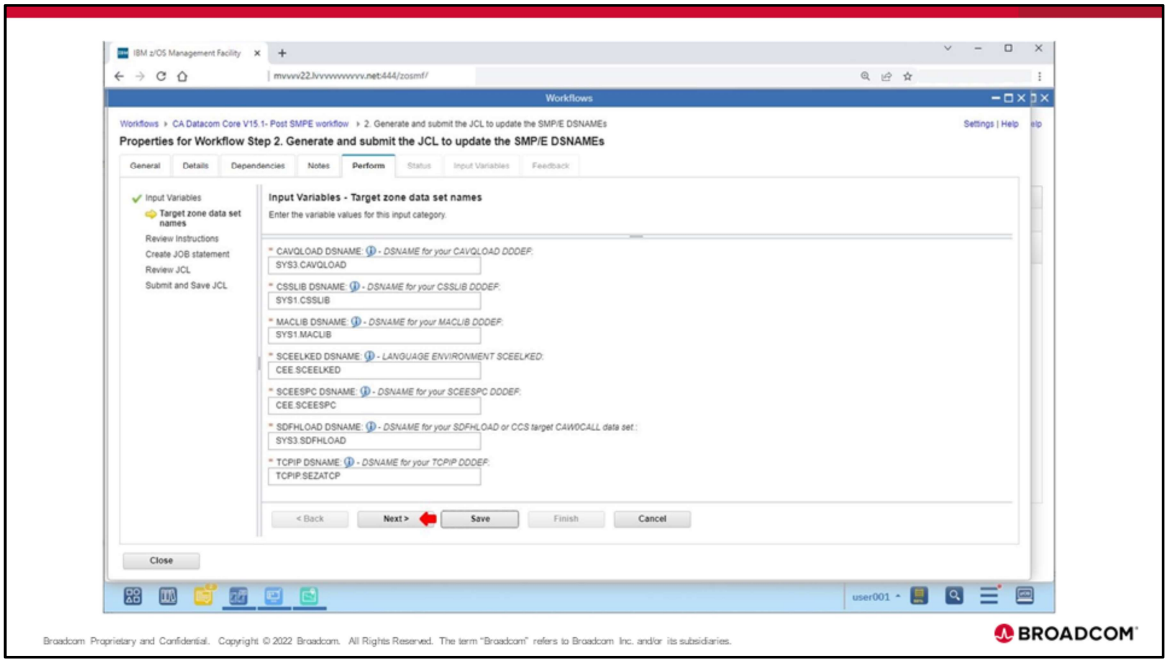
Here is the ‘Details’ properties that describe Workflow step details.



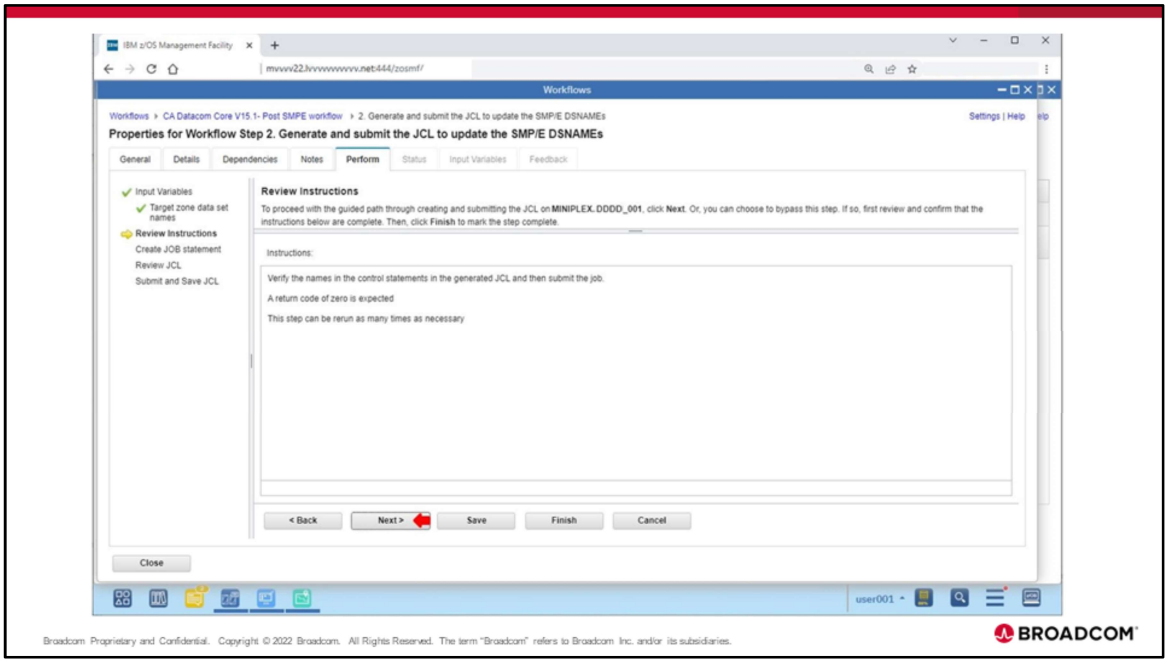
Here is the ‘Dependencies’ properties that note that the perquisite step(s) completed..



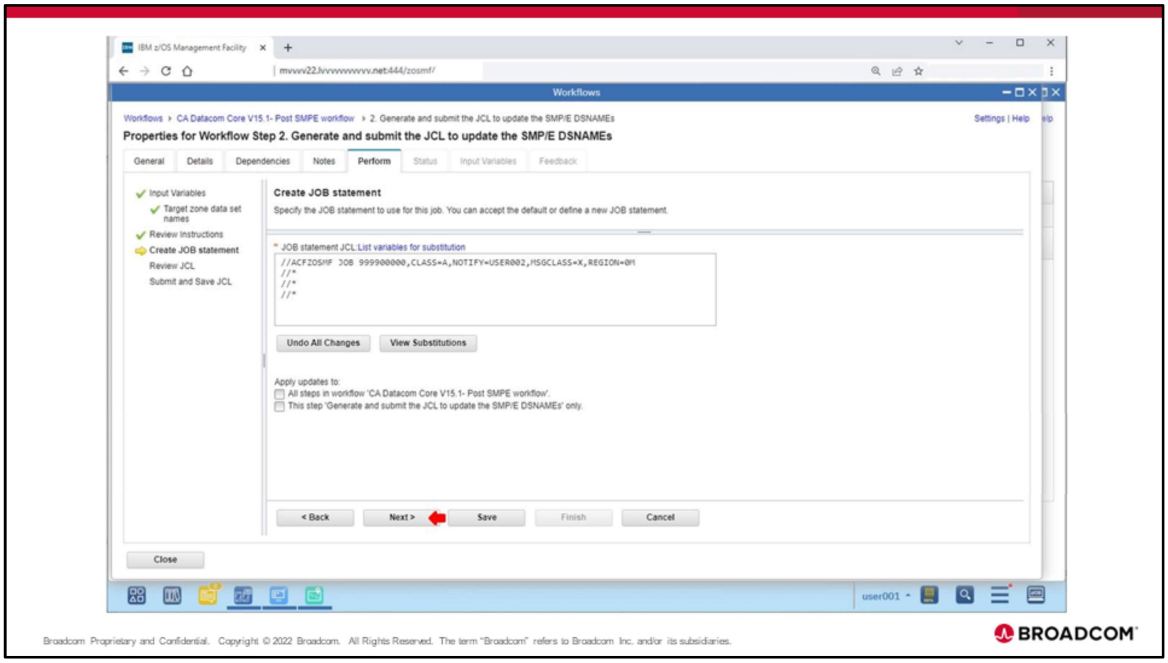
Here is the ‘Notes’ properties that describe Workflow step Actions that may be required. For this step there are no notes.



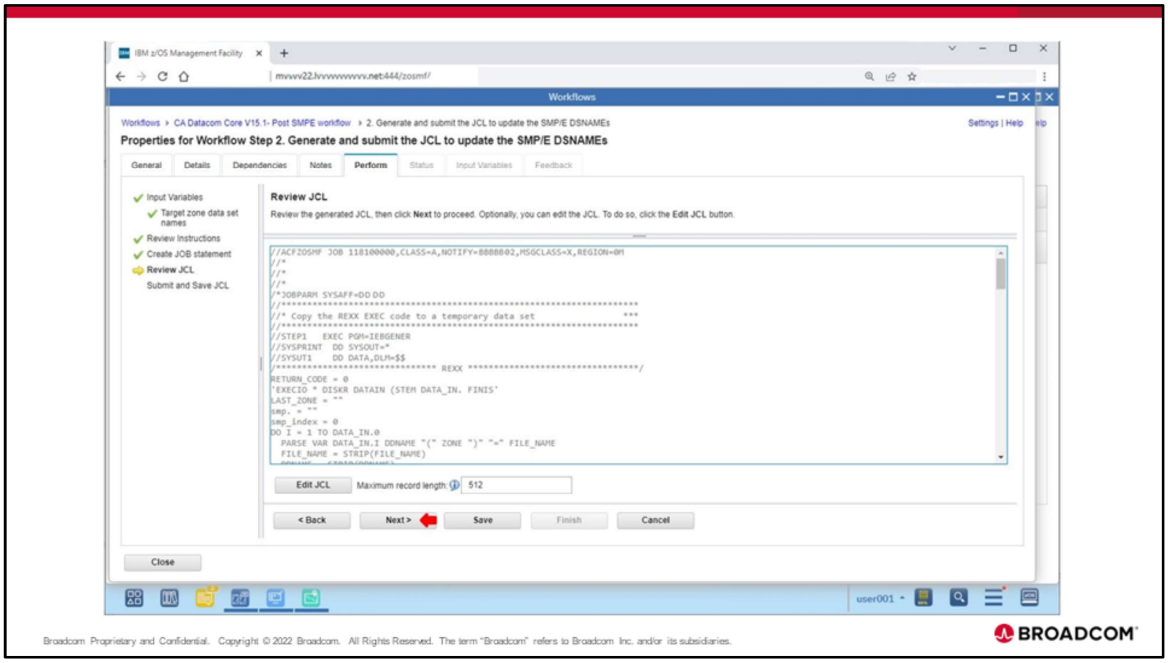
Here is the ‘Perform’ properties that specify the required Target zone data set names which should be updated with appropriate dsns. After updating the data set names click on ‘Next’ to proceed to the next ‘Perform’ ‘Review Instructions’ step.



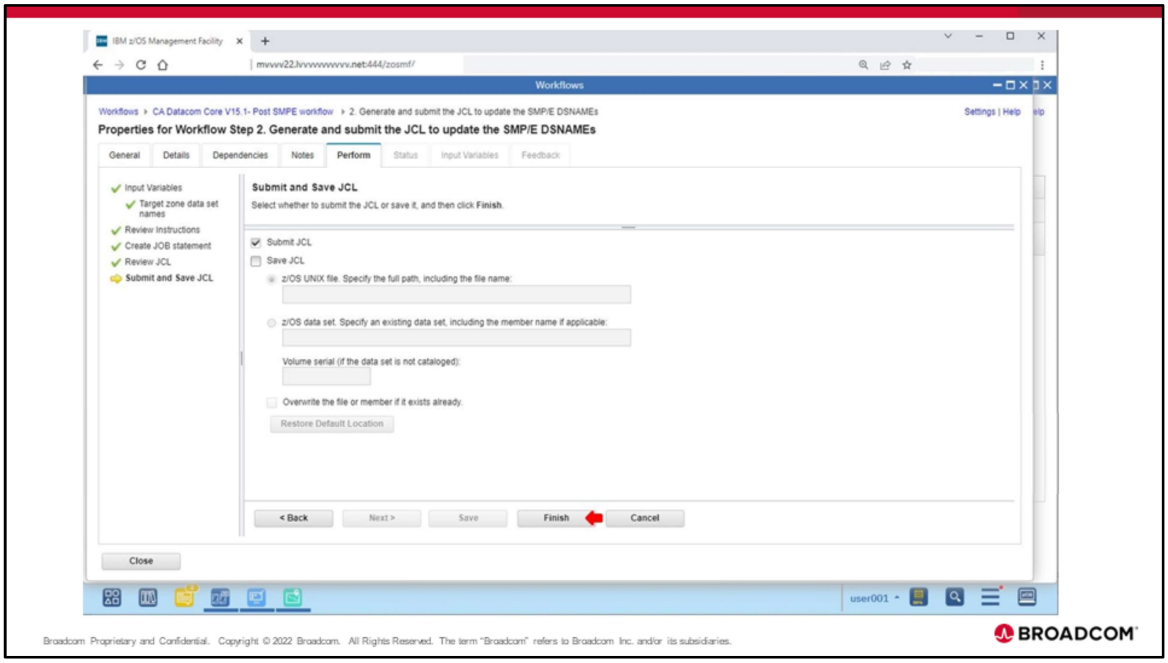
This is the ‘Review Instructions’ step that is part of the Workflow Step 2. Review the instructions and click ‘Next’ to proceed.



Review the Job Statement and update as required, then click ‘Next’ to proceed.



Review the JCL and update as required, then click ‘Next’ to proceed.



The JCL can optionally be saved to a z/OS Unix file or a z/OS dataset by checking on ‘Save JCL’ and specifying the location. To submit the JCL, check ‘Submit JCL’ and click ‘Finish’.

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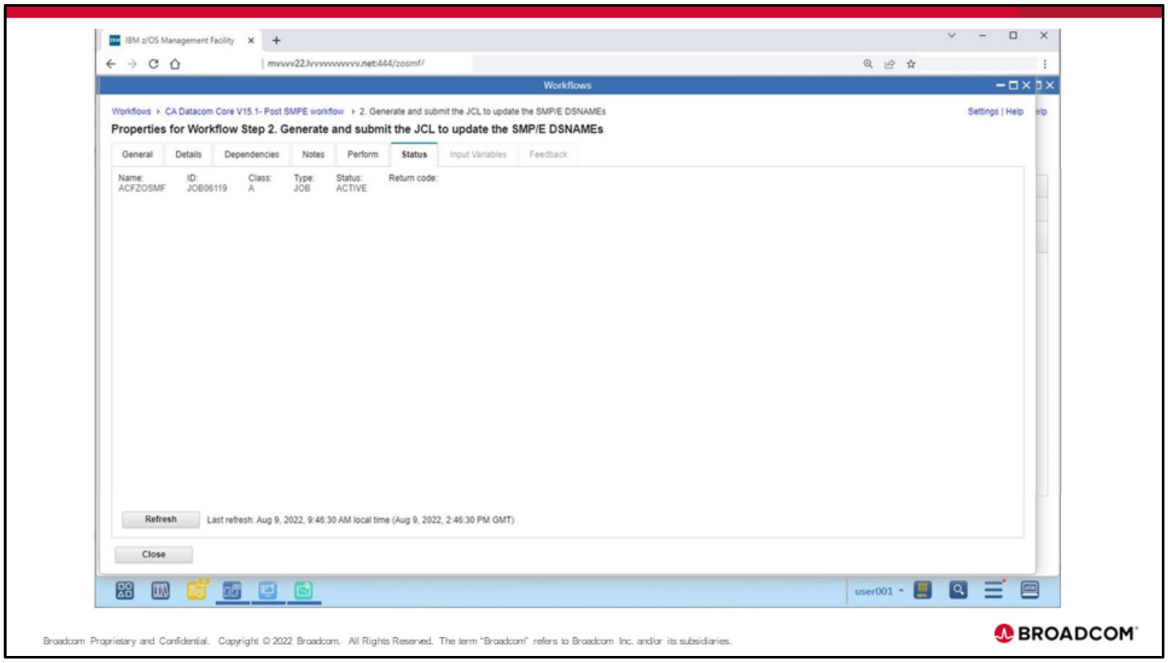
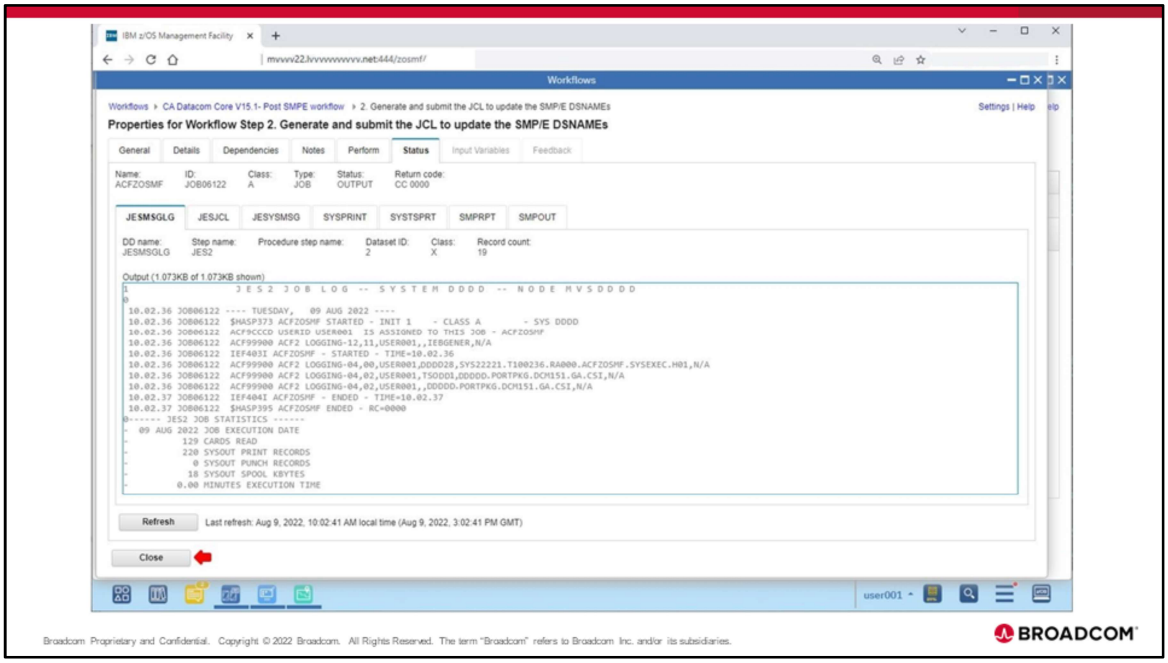
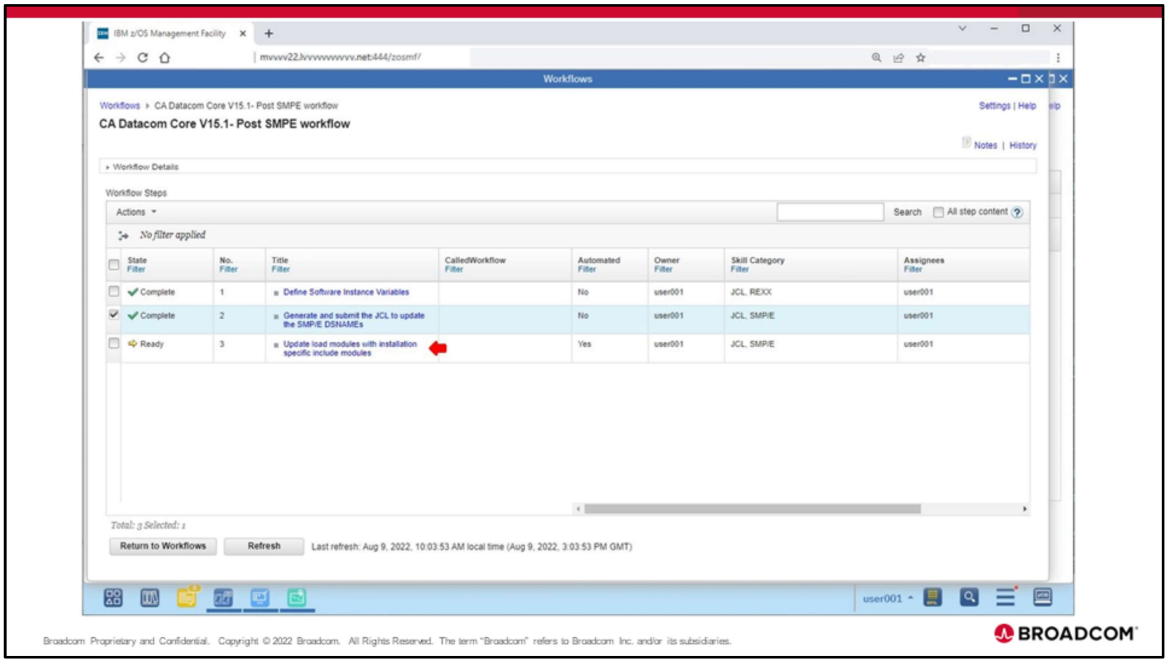


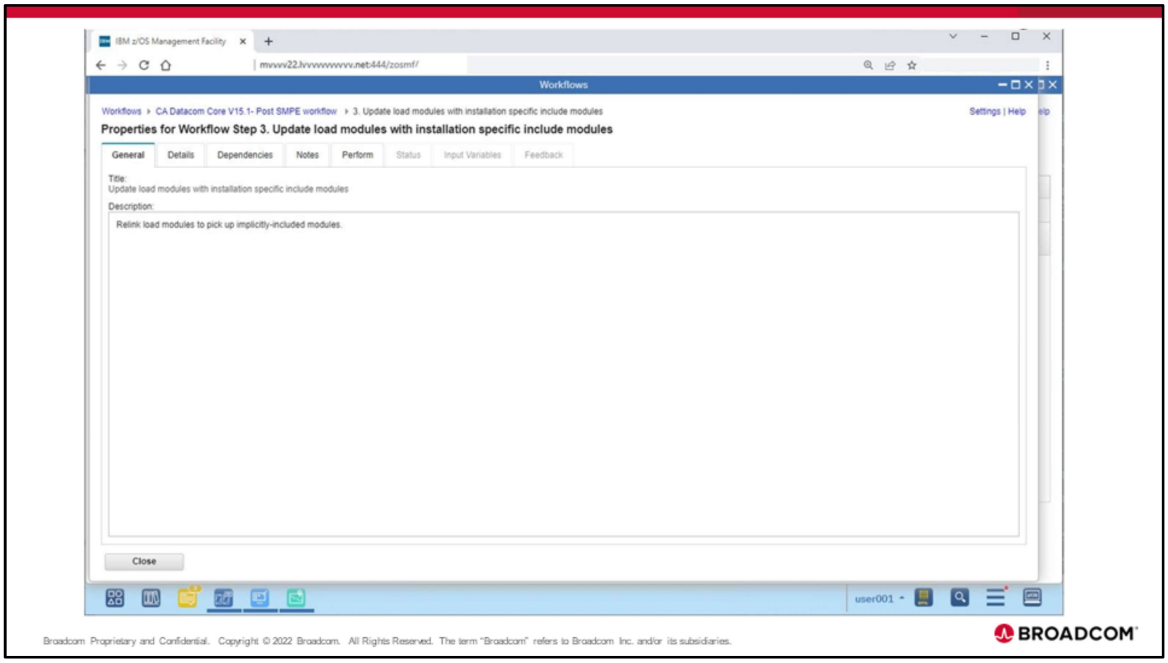
After submitting the job, wait until the job completes and the Status is updated with the completion code. Click ‘Refresh’ to update the Status.



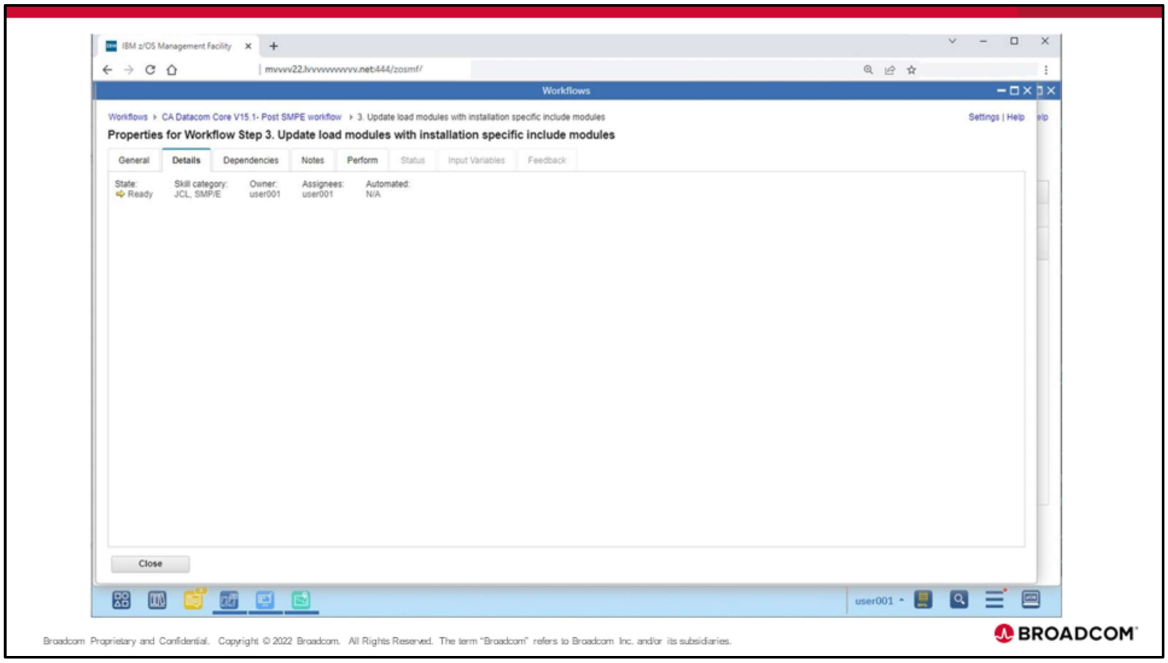
After getting complete code 00, click ‘Close’ to complete Workflow step 2.



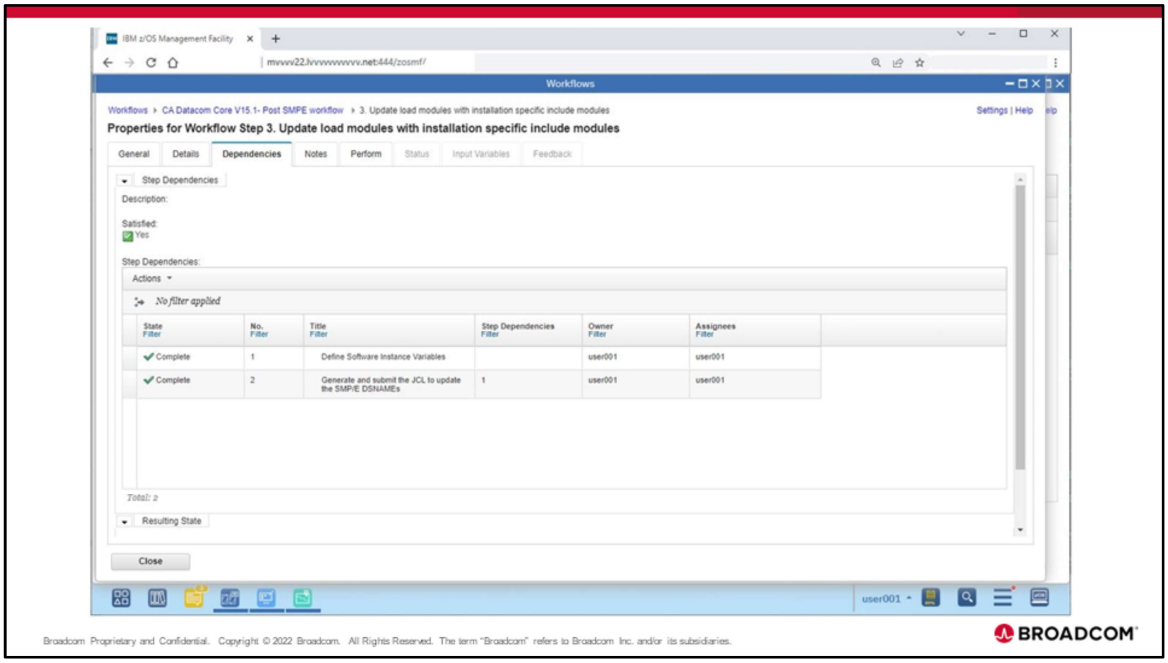
After successfully completing Workflow steps one and two, click on the third step for the Post SMPE workflow to proceed.



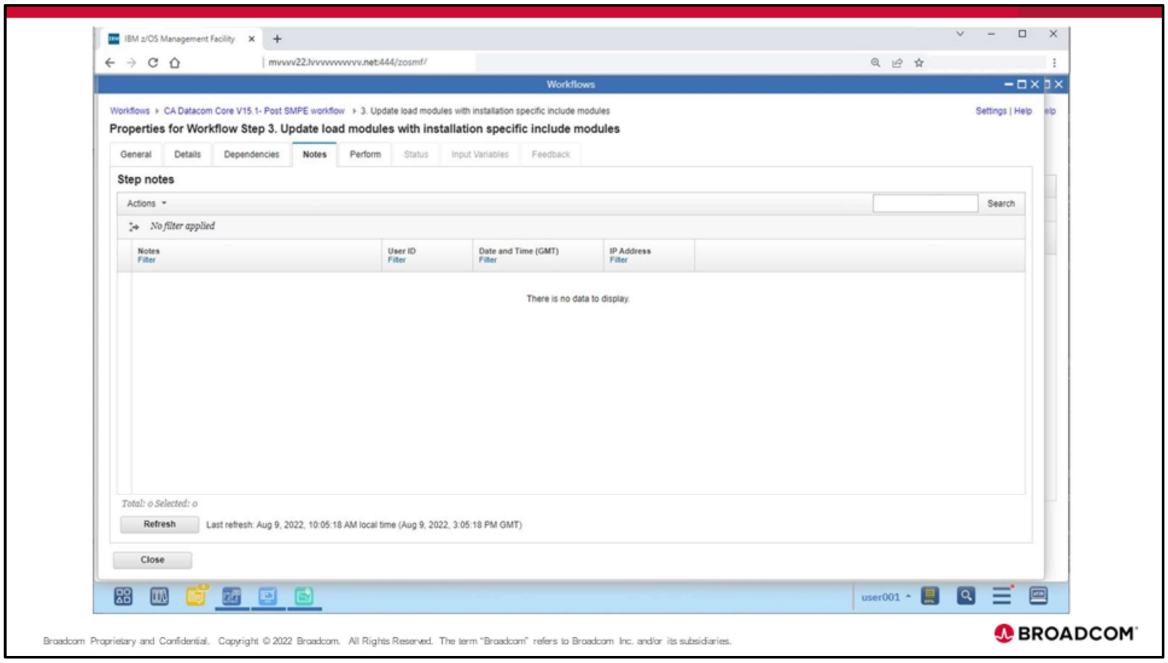
Here is the ‘General’ properties that describes Workflow Step 3.



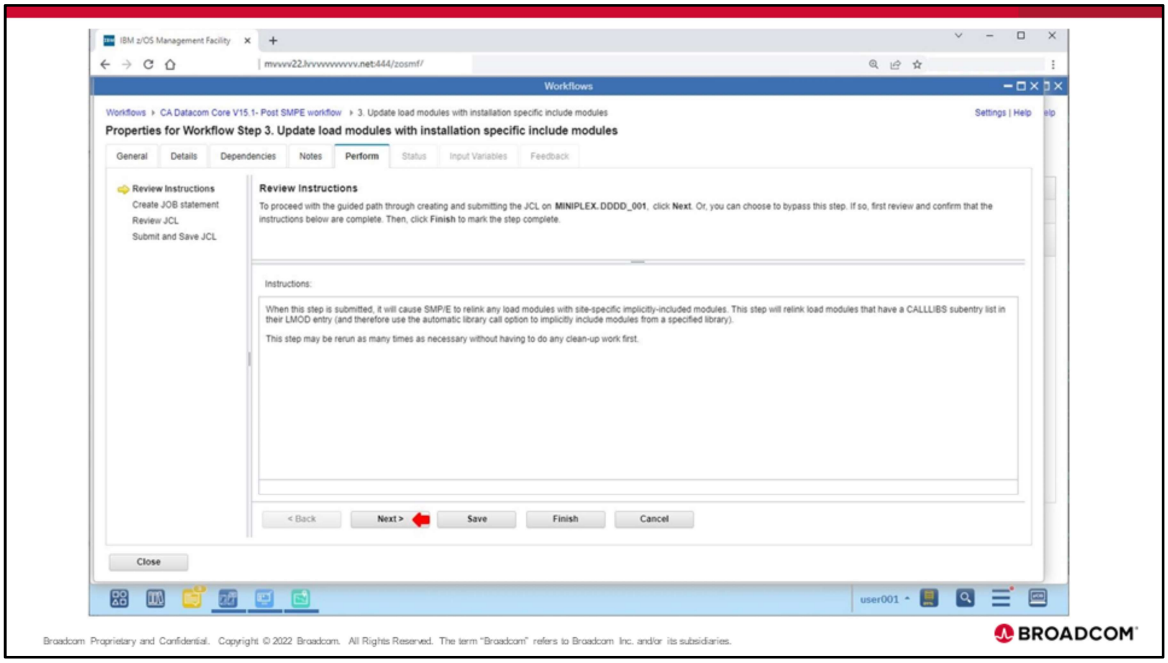
Here is the ‘Details’ properties that describe Workflow step 3 details.



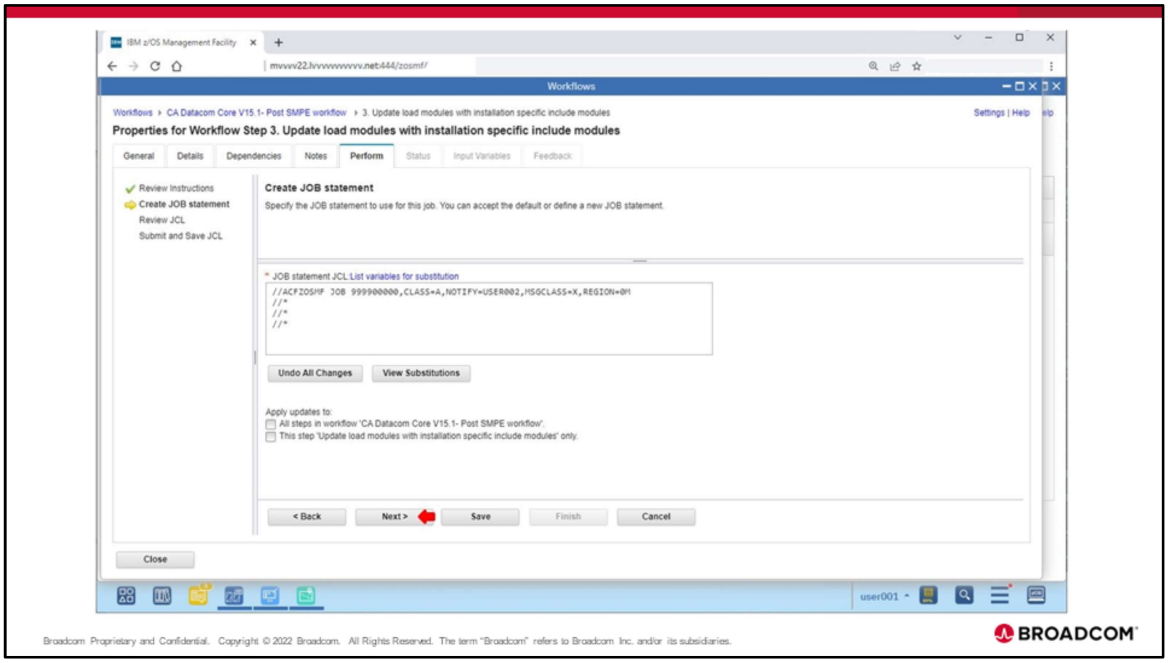
Here is the ‘Dependencies’ properties, note the perquisite step(s) completed.



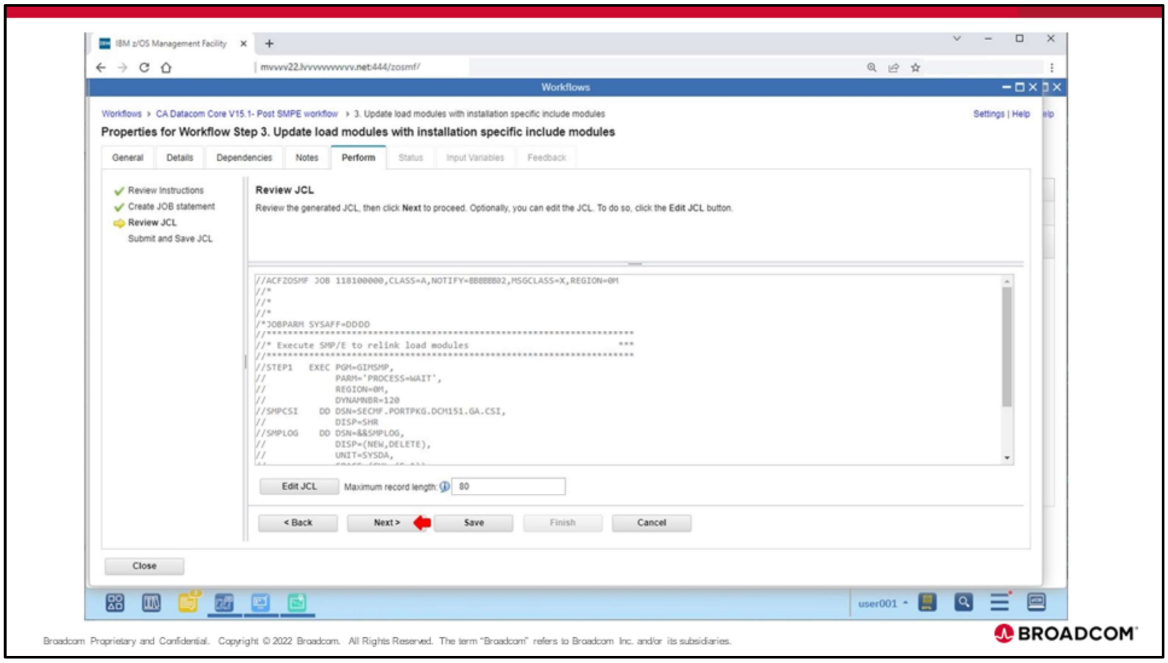
Here is the ‘Notes’ properties that describe Workflow step Actions that may be required. For this step there are no notes.



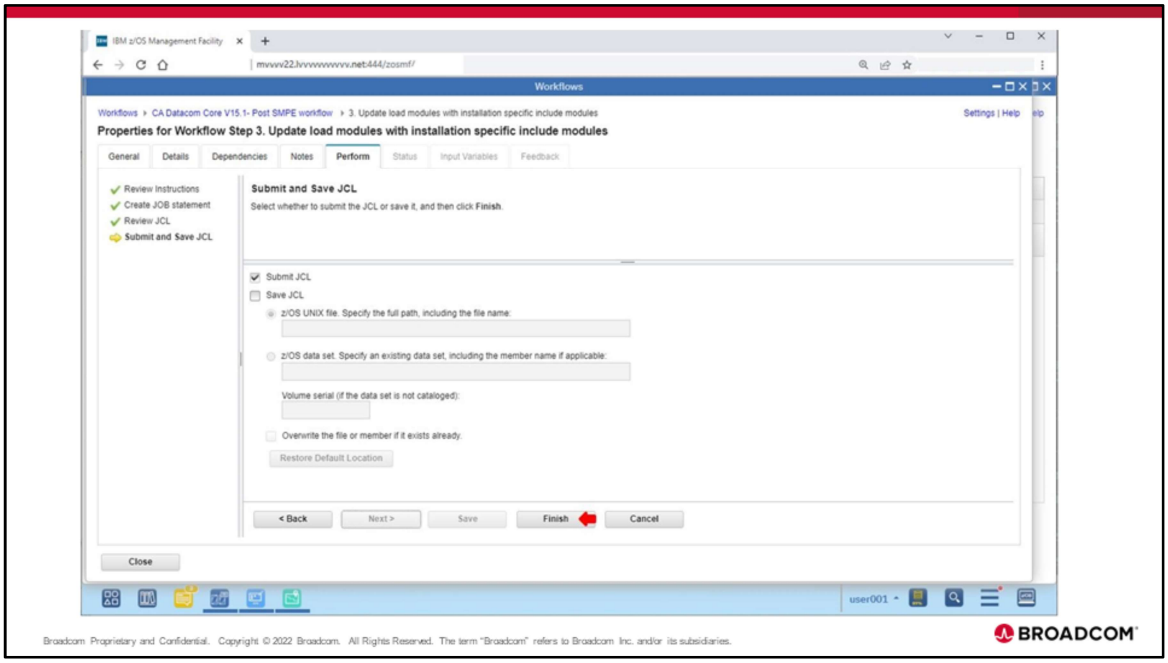
Here is the ‘Perform’ properties that specify the four Perform steps.



Review the Job Statement and update as required, then click ‘Next’ to proceed.



Review the JCL and update as required, then click ‘Next’ to proceed.



The JCL can optionally be saved to a z/OS Unix file or a z/OS dataset by checking on ‘Save JCL’ and specifying the location. To submit the JCL, check ‘Submit JCL’ and click ‘Finish’.

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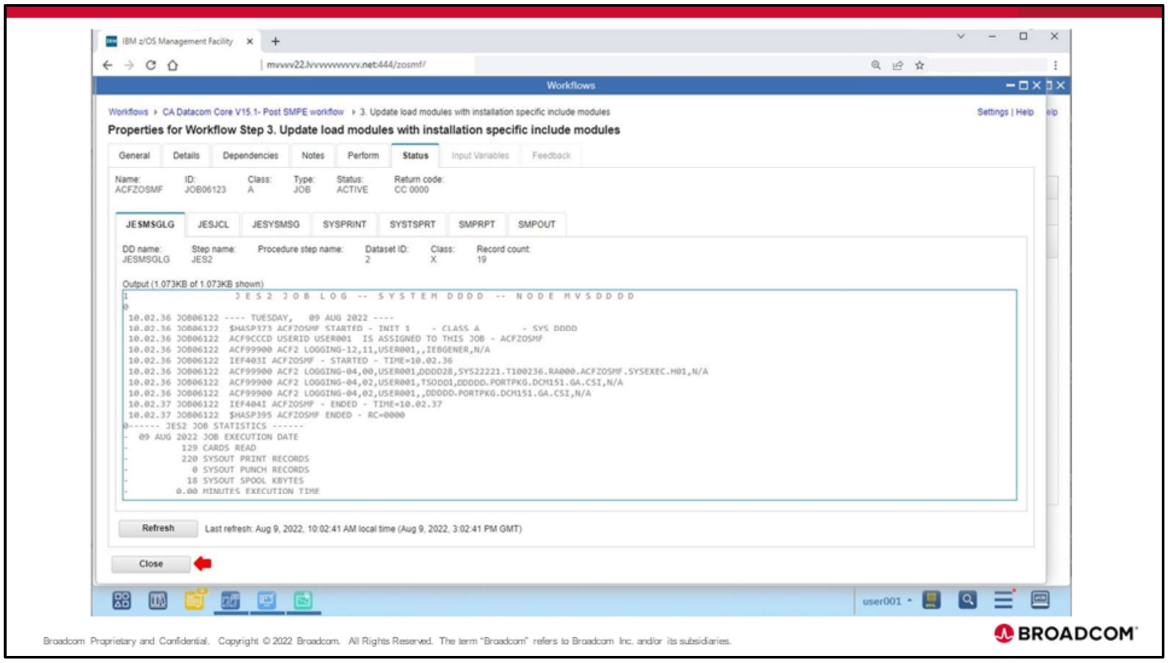
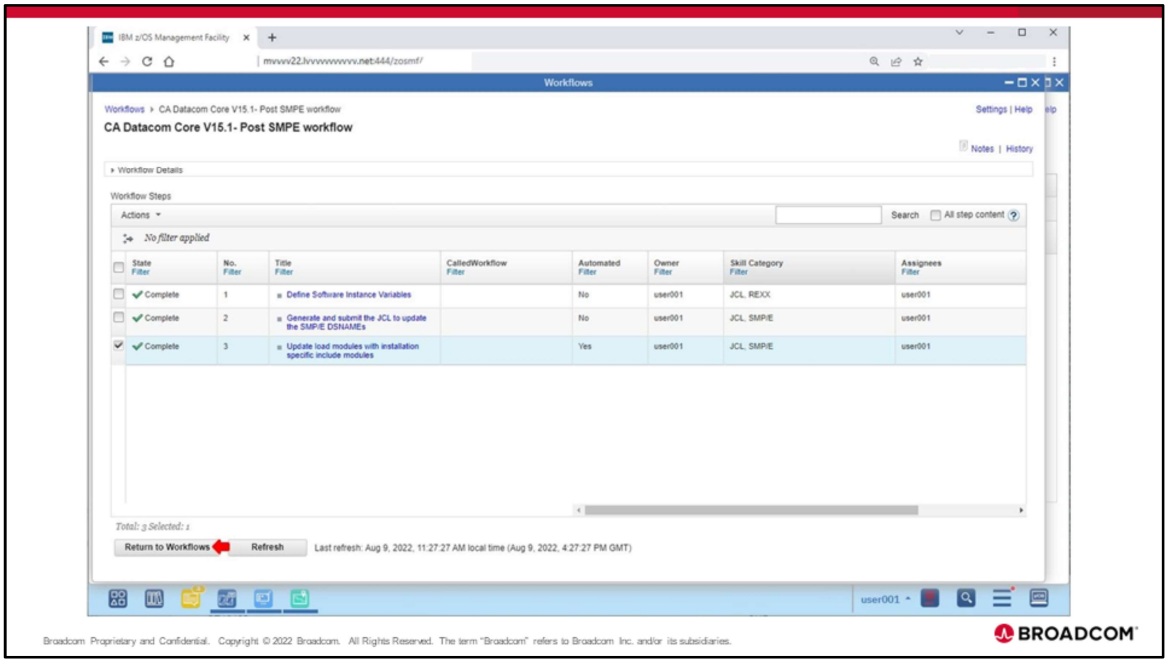


After submitting the job wait until the job completes and the Status is updated with the completion code. Click ‘Refresh’ to update the Status.



After getting complete code 00 for all three Post SMPE workflow steps, click ‘Return to Workflows’ to proceed to the next Workflow.

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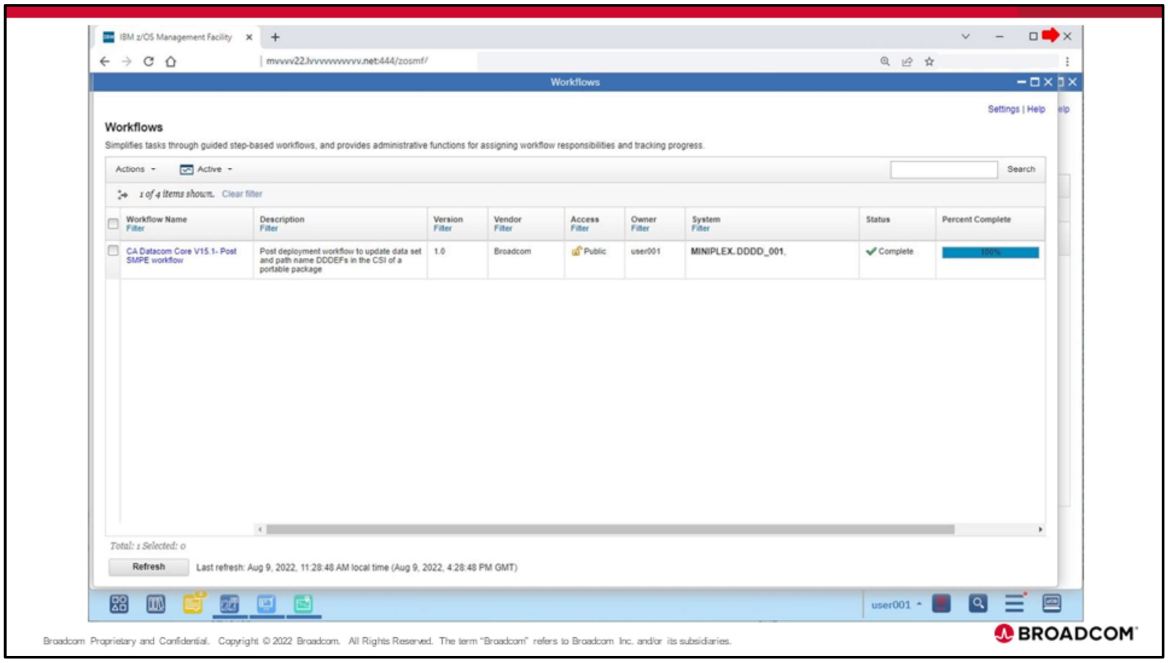
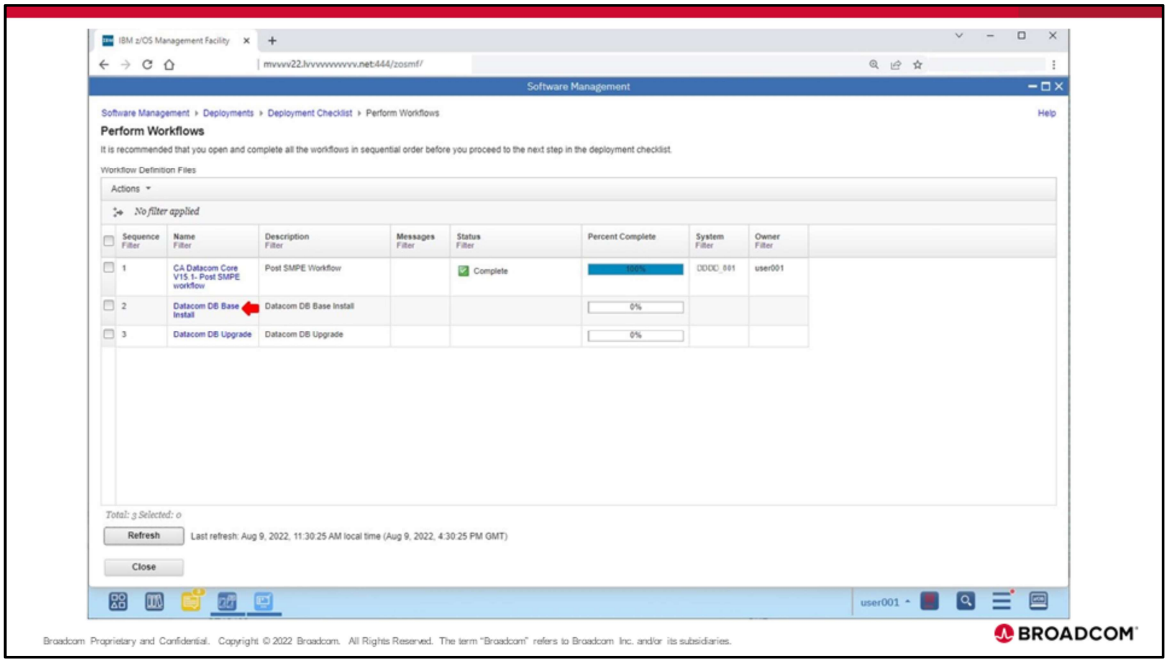
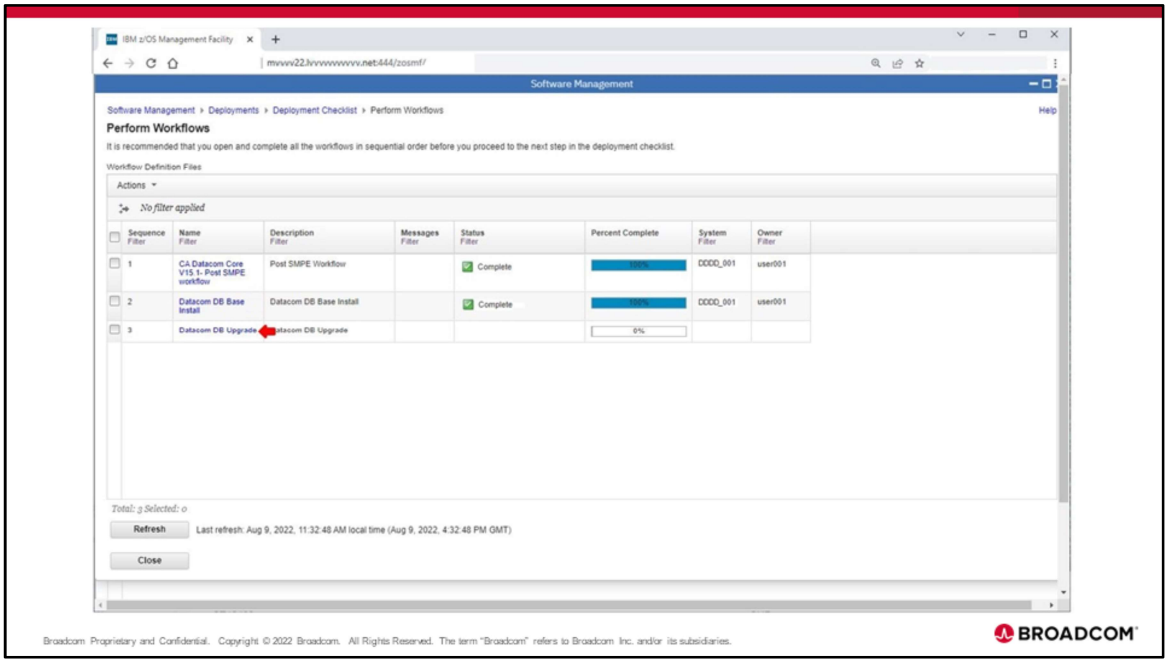


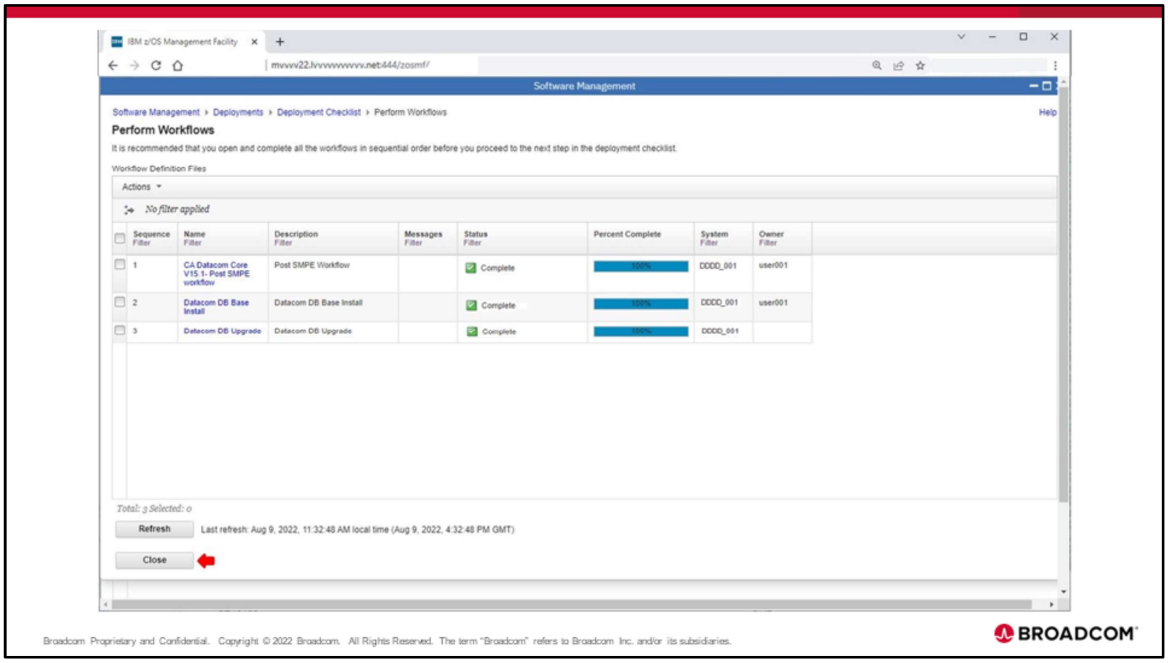
Note the Post SMPE Workflow ‘Percent Complete’ 100%, click the ‘X’ to close this Workflow window and proceed to the next Workflow.



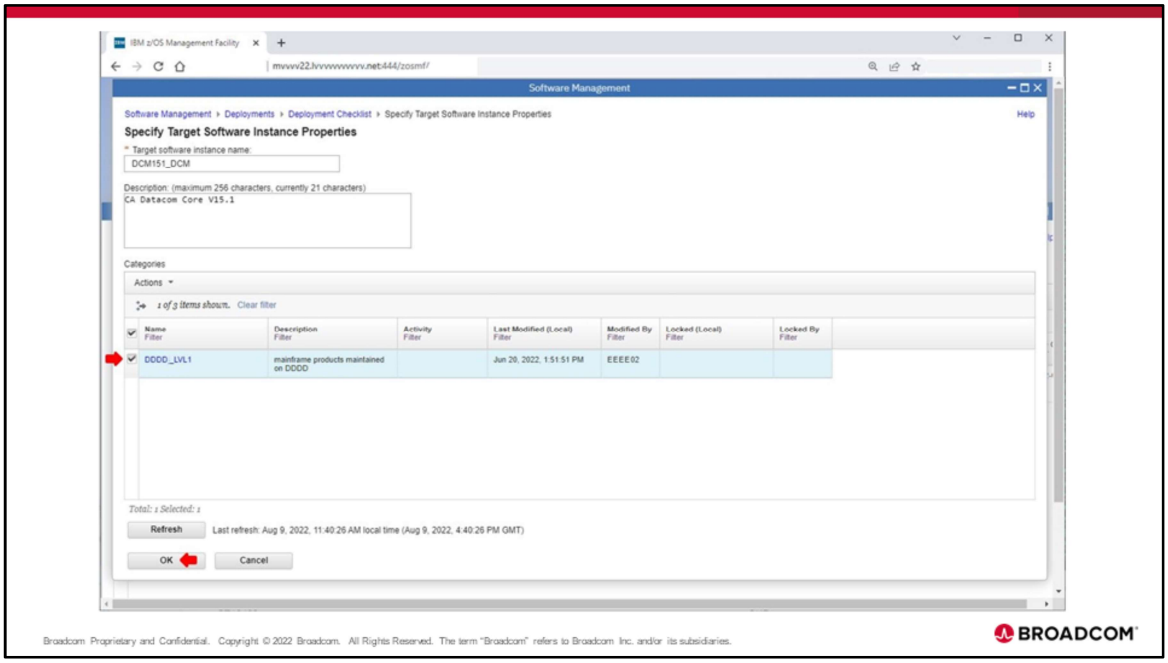
Click on the Workflow ‘Datacom DB Base Install’ and follow the same process as Workflow 1. Since the Workflow steps are similar for Workflow steps 2 and 3 we will not repeat the steps for this presentation.



After completing the Workflow ‘Datacom DB Base Install’, click on ‘Datacom DB Upgrade’ and follow the same process as Workflow 1 and 2. Since the Workflow steps are similar for Workflow steps 2 and 3 we will not repeat the steps for this presentation.



After all three Workflows have been completed, click on ‘Close’ to continue with the Deployment steps.



The last step is to review and update the ‘Target Software Instance Properties’, review and update the ‘instance name’ and description as needed. Optionally select a predefined ‘Category’ for this product instance or Click ‘Action’ and then ‘New’ to create a new category.

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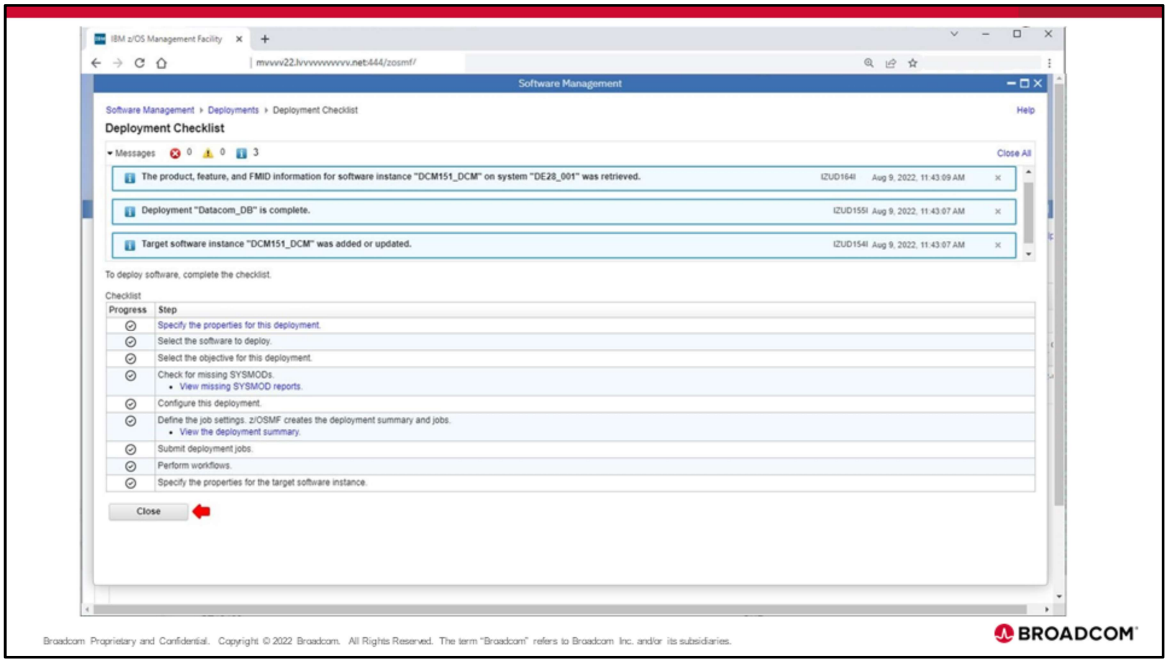
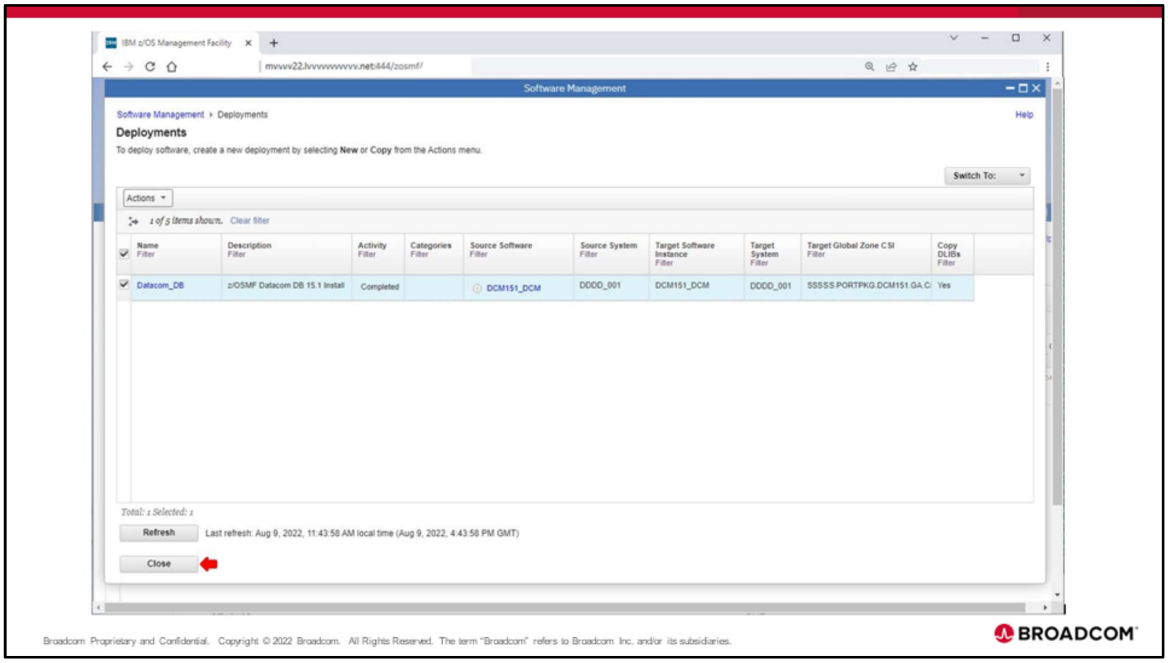


After all of the ‘Deployment Checklist’ steps have been completed, click on ‘Close’ to complete the Deployment.



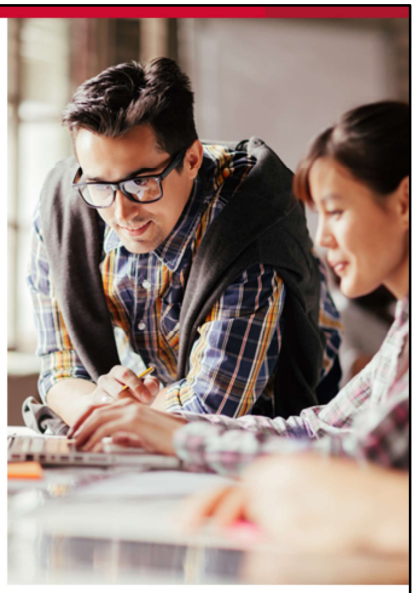
This ‘Deployments’ displays show the successful completion of the Datacom DB deployment.

Assistance/Questions

The Broadcom z/OSMF Migration website contains links for additional training and details on contacting a **Product z/OSMF Advisor**:

- Consultation/Q&A
- Available Training Videos:
  - zOSMF Acquire Product
  - zOSMF Migrate SMPE Environments
  - zOSMF Product Installation
  - zOSMF Product Install Maintenance
  - Receive Order

Broadcom z/OSMF Migration website:
http://mainframe.broadcom.com/zosmf_migration



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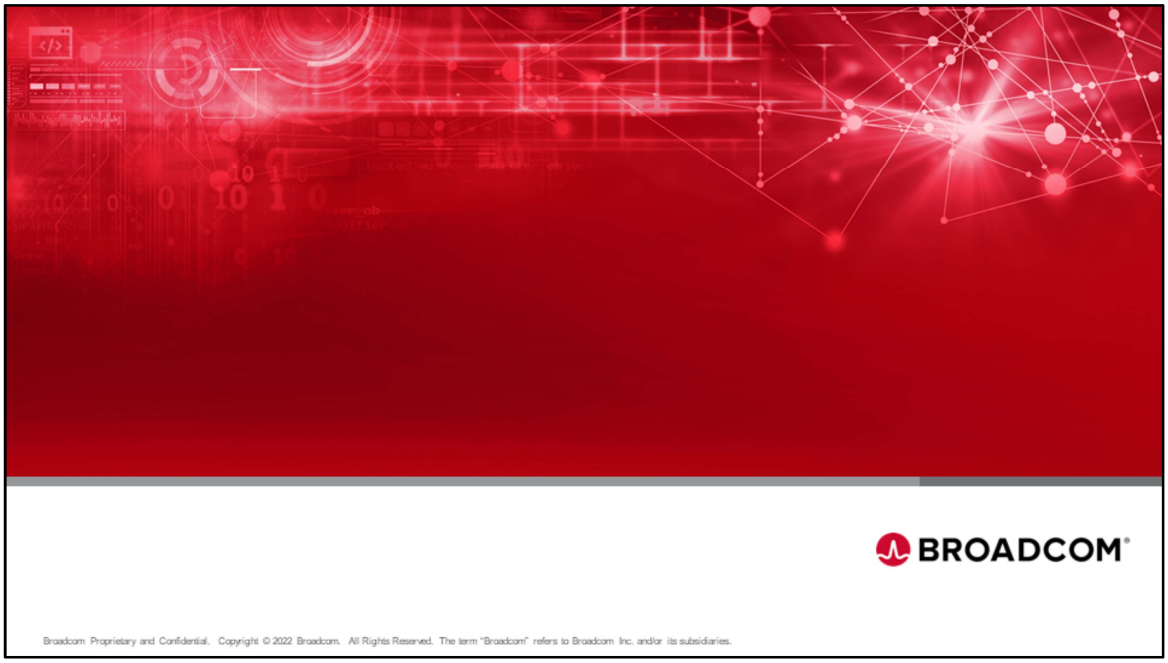
For additional training and details on contacting a Product z/OSMF Advisor please use the link or Q code to access the z/OSMF Migration website.



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