Create WFA workflow packs

OnCommand Workflow Automation 5.0

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Create WFA workflow packs

You can create workflow packs on OnCommand Workflow Automation (WFA) for your storage automation and integration requirements.

Steps

1. Log in to the **WFA** window through a web browser.
2. Click **Designer** > **Pack**.
3. Click the **New Pack** icon.
4. In the **New Pack** dialog box, enter values for the **Name**, **Author**, **Version**, and **Description** fields.
5. Click **Save**.
6. Verify that the new pack is created in the **Packs** window.

Add entities to WFA workflow packs

You can add one or more entities to a workflow pack in OnCommand Workflow Automation (WFA) for your storage automation and integration requirements.

About this task

You can remove a pack from the following entities:

- Workflow
- Finders
- Filters
- Commands
- Functions
- Templates
- Schemes
- Dictionary
- Data Sources Types
- Remote System Types
- Cache Queries
- Categories

Steps

1. Log in to the **WFA** window through a web browser.
2. Click **Designer** > **<Entities>**.
3. In the Entity window, select the entity you want to add to the pack.
4. Click the **Add To Pack** icon.

   “Add To Pack” is enabled only for entities for which the certification is set to `None`.

5. In the **Add To Pack <Entity>** dialog box, from the **Available Packs** drop-down list, select the pack to which you want to add the entity.
6. Click **OK**.

Delete OnCommand Workflow Automation packs

You can delete a pack from OnCommand Workflow Automation (WFA) if you no longer require it. If you delete a pack, all the entities associated with the pack are deleted.

About this task

- You cannot delete a pack if there are any dependencies on the entities that are part of the pack.

  For example, if you attempt to delete a pack that includes a command that is part of a custom workflow, the delete operation will fail because the custom workflow is dependent on the pack. You can delete the pack only after you delete the custom workflow.

- Entities that are part of a pack cannot be deleted individually.

  To delete an entity that is part of a pack, you must delete the pack containing that entity. If an entity is part of multiple packs, the entity will be deleted from the WFA server only when all the packs containing that entity are deleted.

Steps

1. Log in to WFA through a web browser as an admin.
2. Click **Designer** > **Packs**.
3. Select the pack you want to delete and click .
4. In the **Delete Pack** confirmation dialog box, click **OK**.

Export OnCommand Workflow Automation content

You can save user-created OnCommand Workflow Automation (WFA) content as a .dar file and share the content with other users. The WFA content can include the entire user-created content or specific items such as workflows, finders, commands, and dictionary terms.

What you'll need

- You must have access to the WFA content that you want to export.
- If content that is to be exported contains references to certified content, the corresponding certified content packs must be available on the system when the content is imported.

  These packs can be downloaded from the Storage Automation Store.

About this task

- You cannot export the following types of certified content:
  - - NetApp-certified content
  - - content developed by Professional Services (PS), which is available only on custom installations made by PS

- - packs developed by users

- All of the objects that are dependent on the exported object are also exported.

  For example, exporting a workflow also exports the dependent commands, filters, and finders for the workflow.

- You can export locked objects.

  The objects remain in the locked state when they are imported by other users.

Steps

1. Log in to WFA through a web browser.
2. Export the necessary content:

If you want to…	Do this…
Export all user-created content as a single `.dar` file	a. Click **Settings**, and under **Maintenance** click **Export All Workflows**. b. Specify a file name for the `.dar` file, and then click **Export**.
Export specific content	a. Navigate to the window from which you want to export content. b. Select one or more items from the window, and then click . c. In the Export As dialog box, specify a file name for the .dar file, and then click **Export**.

3. In the **Save As** dialog box, specify the location where you want to save the `.dar` file, and then click **Save**.

Import OnCommand Workflow Automation content

You can import user-created OnCommand Workflow Automation (WFA) content such as workflows, finders, and commands. You can also import content that is exported from another WFA installation, content that is downloaded from the Storage Automation Store or the WFA community, as well as packs, including Data ONTAP PowerShell toolkits and Perl NMSDK toolkits.

What you'll need

- You must have access to the WFA content that you want to import.
- The content that you want to import must have been created on a system that is running the same version or an earlier version of WFA.

  For example, if you are running WFA 2.2, you cannot import content that was created using WFA 3.0.

- If the `.dar` file references NetApp-certified content, the NetApp-certified content packs must be imported.

  The NetApp-certified content packs can be downloaded from the Storage Automation Store. You must refer

to the documentation of the pack to verify that all requirements are met.

Steps

1. Log in to WFA through a web browser.
2. Click **Settings**, and under **Maintenance** click **Import Workflows**.
3. Click **Choose File** to select the .dar file that you want to import, and then click **Import**.
4. In the **Import Success** dialog box, click **OK**.

Related information

NetApp community: OnCommand Workflow Automation

Import WFA workflow packs

You can import workflow packs from the server to OnCommand Workflow Automation (WFA) for your storage automation and integration requirements.

What you'll need

You must have access to the WFA content in the server that you want to import.

Steps

1. Log in to the **WFA** window through a web browser.
2. Click **Designer** > **Pack**.
3. Click the **Import From Server** icon.
4. In the Import From Server Folder dialog box, in the **Folder location at server system** field, enter the location of the pack in the server in a string format, for example, `C:\work\packs\test`.
5. Click **OK**.
6. Verify that the pack is imported in the **Packs** window.

Considerations while importing OnCommand Workflow Automation content

You must be aware of certain considerations when you import user-created content, content that is exported from another OnCommand Workflow Automation (WFA) installation, or content that is downloaded from the Storage Automation Store or the WFA community.

- WFA content is saved as a `.dar` file and can include the entire user-created content from another system or specific items such as workflows, finders, commands, and dictionary terms.
- When an existing category is imported from a `.dar` file, the imported content is merged with the existing content in the category.

  For example, consider there are two workflows WF1 and WF2 in category A in the WFA server. If workflows WF3 and WF4 in category A are imported to the WFA server, category A will contain workflows WF1, WF2, WF3, and WF4 after the import.

- If the `.dar` file contains dictionary entries, then the cache tables corresponding to the dictionary entries are automatically updated.

  If the cache tables are not updated automatically, an error message is logged in the `wfa.log` file.

- When importing a `.dar` file that has a dependency on a pack that is not present in the WFA server, WFA tries to identify whether all the dependencies on the entities are met.
  - If one or more entities are missing or if a lower version of an entity is found, the import fails and an error message is displayed.

    The error message provides details of the packs that should be installed in order to meet the dependencies.

  - If a higher version of an entity is found or if the certification has changed, a generic dialog box about the version mismatch is displayed, and the import is completed.

    The version mismatch details are logged in a `wfa.log` file.

- Questions and support requests for the following must be directed to the WFA community:
  - Any content downloaded from the WFA community
  - Custom WFA content that you have created
  - WFA content that you have modified

Pack identification during upgrade

During the upgrade process, OnCommand Workflow Automation (WFA) identifies and classifies the entities into a pack. If you had deleted any entity of a pack before the upgrade, the pack will not be identified during the upgrade.

During the upgrade process, WFA compares the packs in the database with the list of packs that were released in the Storage Automation Store to identify the packs that were installed before the upgrade. Pack identification thus classifies existing packs in the database.

WFA performs the following processes to identify and classify packs:

- Maintains a list of packs released in the Storage Automation Store to compare and identify the packs that were installed before the upgrade.
- Classifies the entities in a pack as part of the Storage Automation Store synchronization, if Storage Automation Store is enabled.
- Classifies the entities into packs using the updated list.

Pack identification is applicable only to NetApp-certified packs that were downloaded from the Storage Automation Store.

If a pack is not identified during upgrade, you can re-import the pack to get it identified in WFA. The wfa.log files provide details about the entities that were not identified as a pack during the upgrade.

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