

Exercise Documentation: Active Directory Implementation

Overview

A comprehensive Active Directory structure for the tailwindtraders.internal domain was established. The implementation included:

- Organizational Unit structure (Sydney, Melbourne, Brisbane)
- Contractor user account management
- Security group configurations
- Delegation of administrative permissions
- Attribute-based operations
- Account lifecycle actions (disable, reset password)

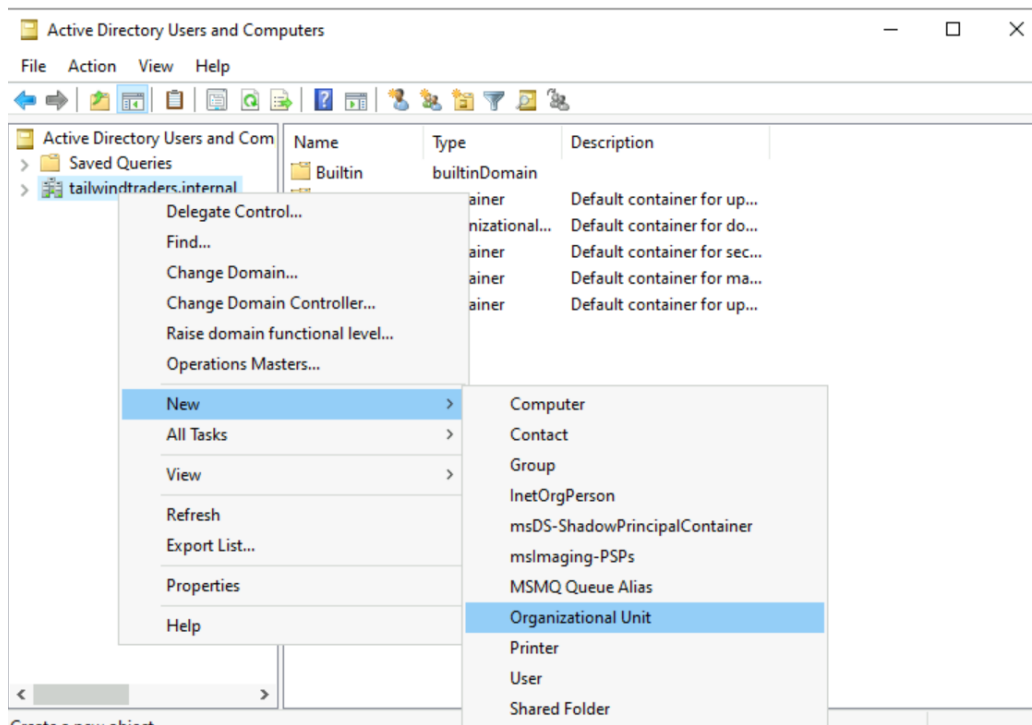
1. Organizational Unit Structure

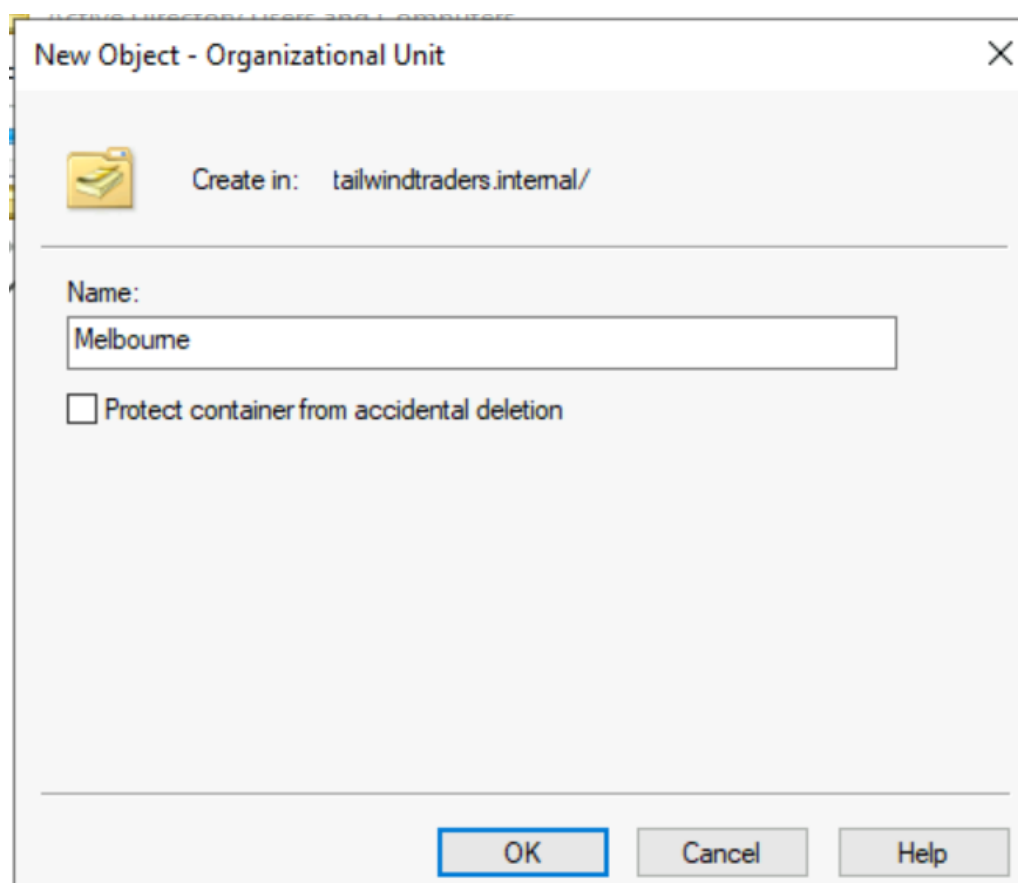
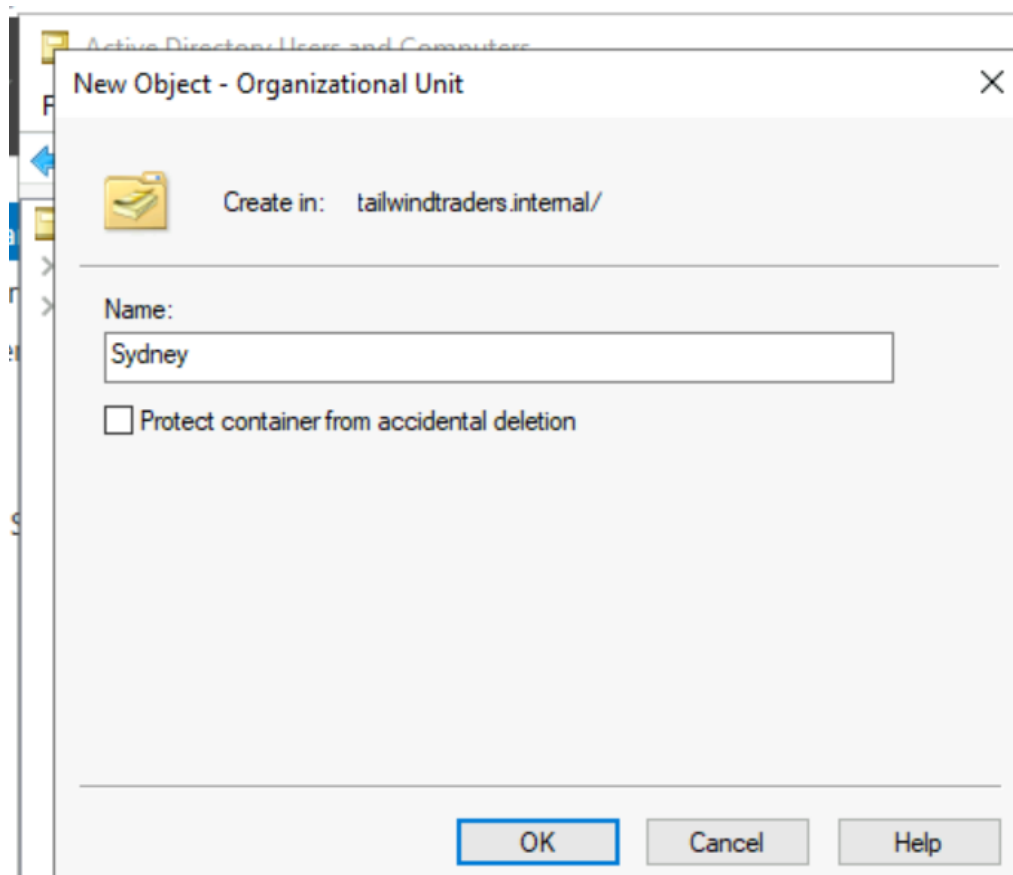
Three geographic OUs were created under the root domain to support delegated administration and logical separation:

- Sydney
- Melbourne
- Brisbane


Creation was performed via the Active Directory Users and Computers console, using the New Object – Organizational Unit dialog.

Screenshots:





New Object - Organizational Unit ✕

 Create in: tailwindtraders.internal/

Name:

☐ Protect container from accidental deletion

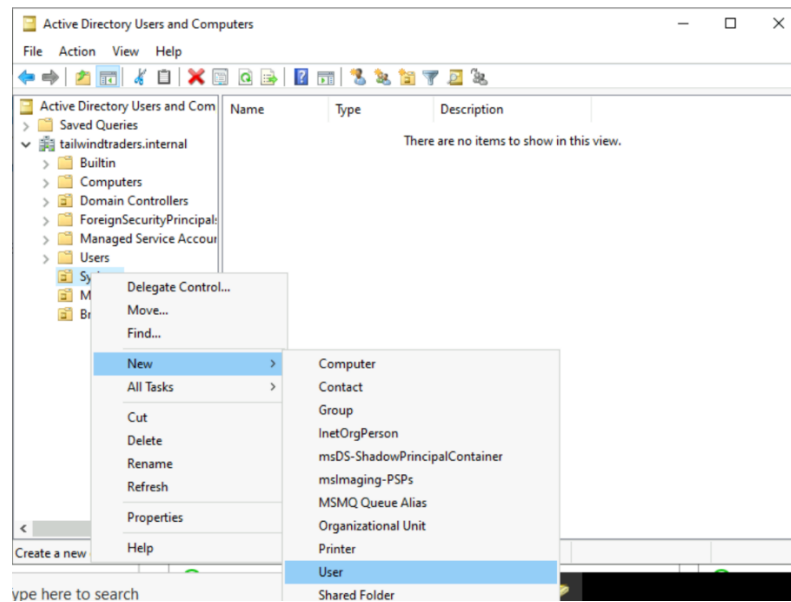
Continued....

2. Contractor User Accounts

Three accounts (SydneyContractor, MelbourneContractor, BrisbaneContractor) were provisioned:

- **SydneyContractor** created with an expiration date of January 1, 2030.
- **MelbourneContractor** and **BrisbaneContractor** cloned from SydneyContractor template via Copy Object – User.
- Accounts relocated to respective OUs.

Screenshots:

A screenshot of the 'New Object - User' dialog box. The 'Create in:' field is set to 'tailwindtraders.internal/Sydney'. There are two password input fields, one for 'Password:' and one for 'Confirm password:', both filled with dots. Below the password fields are four unchecked checkboxes: 'User must change password at next logon', 'User cannot change password', 'Password never expires', and 'Account is disabled'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

SydneyContractor Properties ? X

| Member Of | Dial-in | Environment | Sessions |
|----------------|---------------------------------|--------------|----------|
| Remote control | Remote Desktop Services Profile | | COM+ |
| General | Address | Account | Profile |
| | Telephones | Organization | |

User logon name:
SydneyContractor @tailwindtraders.internal

User logon name (pre-Windows 2000):
TAILWINDTRADERS\ SydneyContractor

Logon Hours... Log On To...

☐ Unlock account

Account options:

- ☐ User must change password at next logon
- ☐ User cannot change password
- ☐ Password never expires
- ☐ Store password using reversible encryption


Account expires

☐ Never

☒ End of: Tuesday , January 1, 2030

OK Cancel Apply Help

Copy Object - User X

 Create in: tailwindtraders.internal/Sydney

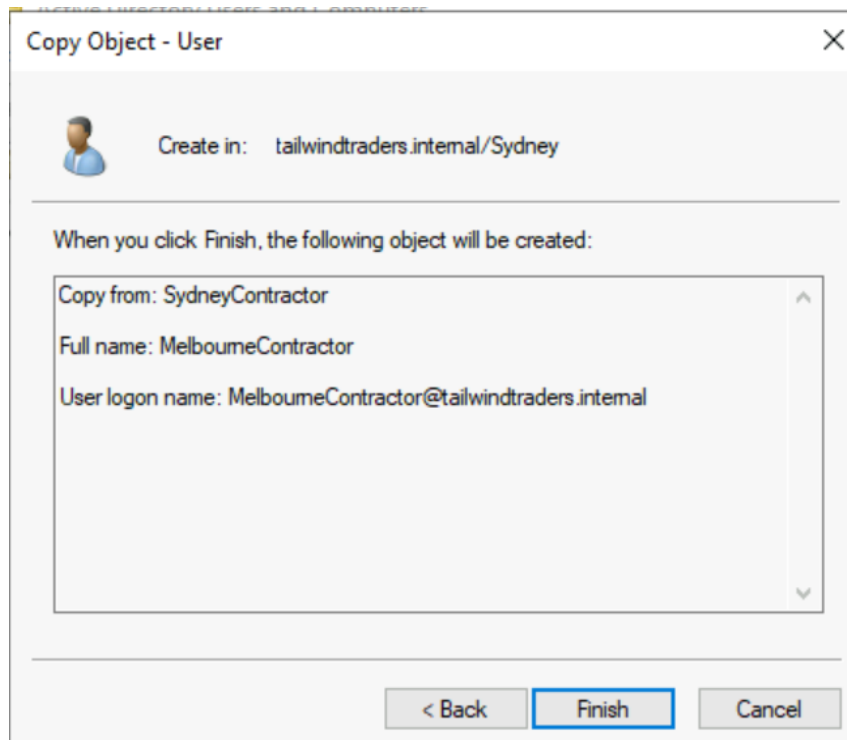
When you click Finish, the following object will be created:

Copy from: SydneyContractor

Full name: BrisbaneContractor

User logon name: BrisbaneContractor@tailwindtraders.internal

< Back Finish Cancel



3. Security Group and Membership

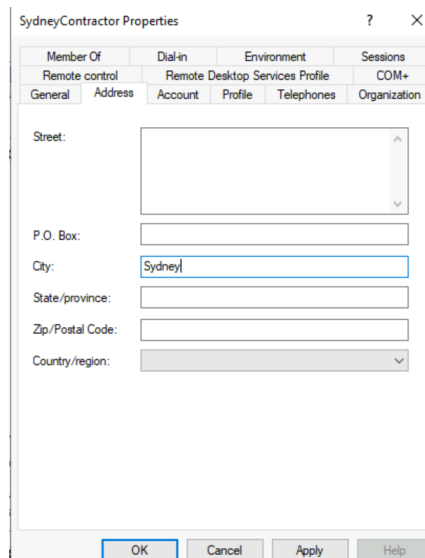
A universal security group, **Sydney Administrators**, was established:

- Created in the Sydney OU.
- SydneyContractor added to the group for delegated administrative access.

4. Protected Users Group

SydneyContractor was added to the **Protected Users** group to enforce enhanced authentication protections.

Screenshot:



5. Delegation of Control

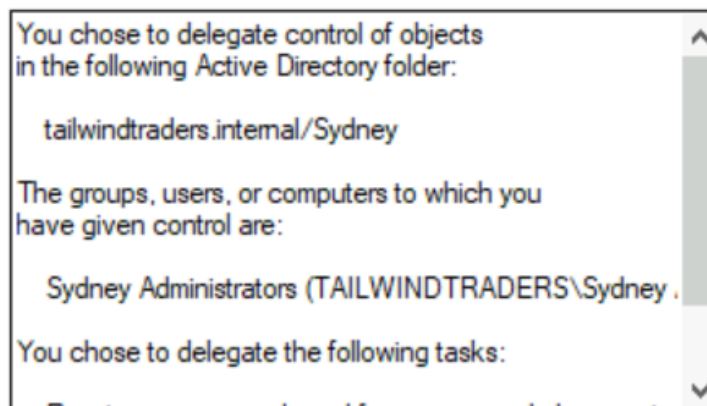
Password reset rights delegated to Sydney Administrators group for the Sydney OU:

- Selected “Reset user passwords and force password change at next logon.”

Screenshots:

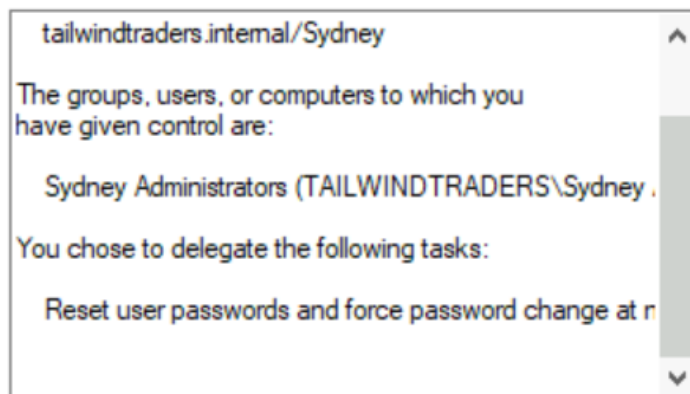
Completing the Delegation of Control Wizard

You have successfully completed the Delegation of Control wizard.



Completing the Delegation of Control Wizard

You have successfully completed the Delegation of Control wizard.



To close this wizard, click Finish.

Continued....

Computer Name/Domain Changes



You must restart your computer to apply these changes

Before restarting, save any open files and close all programs.

OK

6. Attribute-Based Configuration

SydneyContractor's **City** attribute set to "Sydney."

Directory-wide search validated attribute assignment.

Screenshots:

The screenshot shows the 'SydneyContractor Properties' dialog box with the 'Address' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar is a tabbed interface with the following tabs: 'Member Of', 'Dial-in', 'Environment', 'Sessions', 'Remote control', 'Remote Desktop Services Profile', 'COM+', 'General', 'Address', 'Account', 'Profile', 'Telephones', and 'Organization'. The 'Address' tab is active, displaying the following fields:

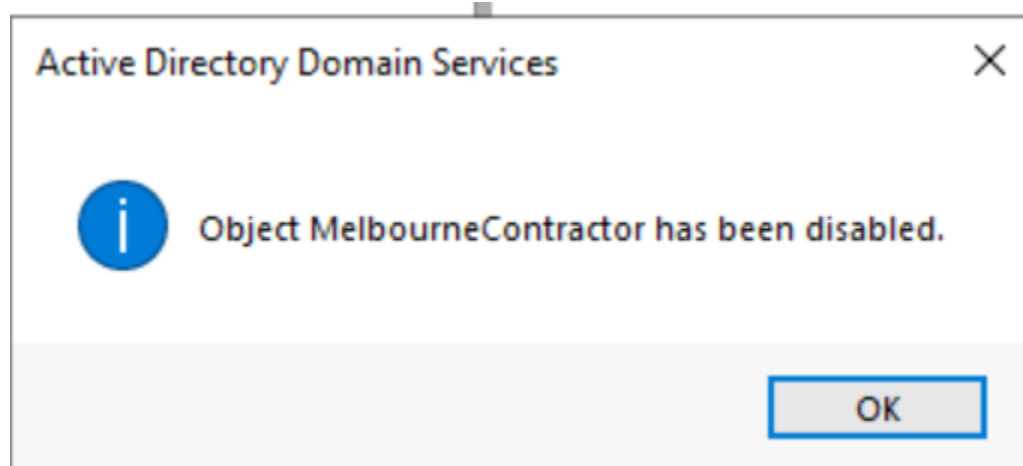
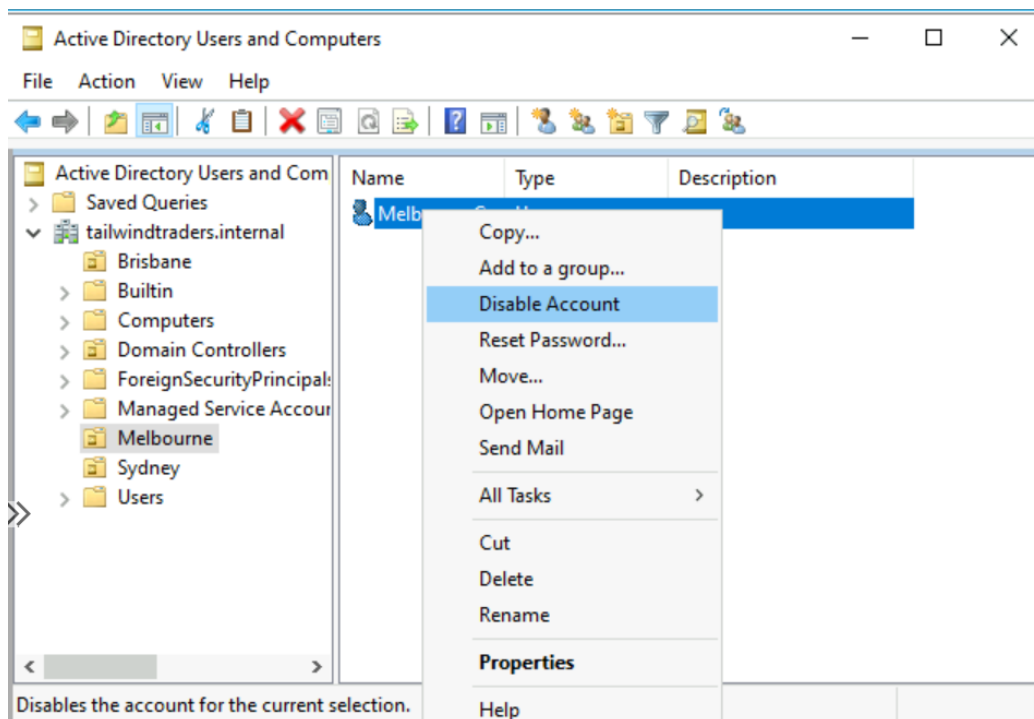
- Street: A large text area with a vertical scrollbar.
- P.O. Box: A single-line text box.
- City: A single-line text box containing the text 'Sydney'.
- State/province: A single-line text box.
- Zip/Postal Code: A single-line text box.
- Country/region: A dropdown menu with a downward arrow.

At the bottom of the dialog are four buttons: 'OK', 'Cancel', 'Apply', and 'Help'.

7. Account Lifecycle Actions

Disable MelbourneContractor via context menu; confirmation displayed.

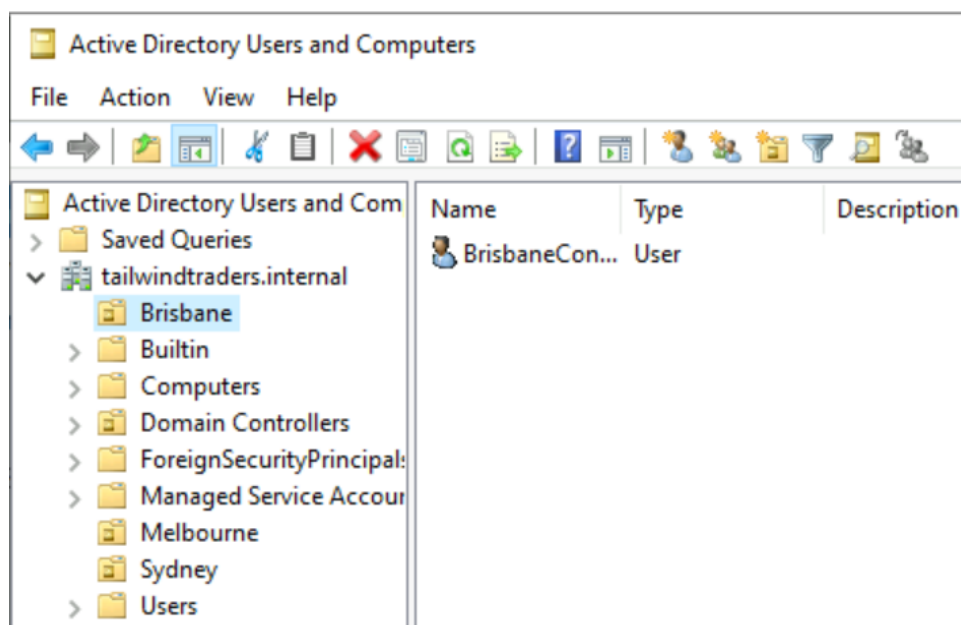
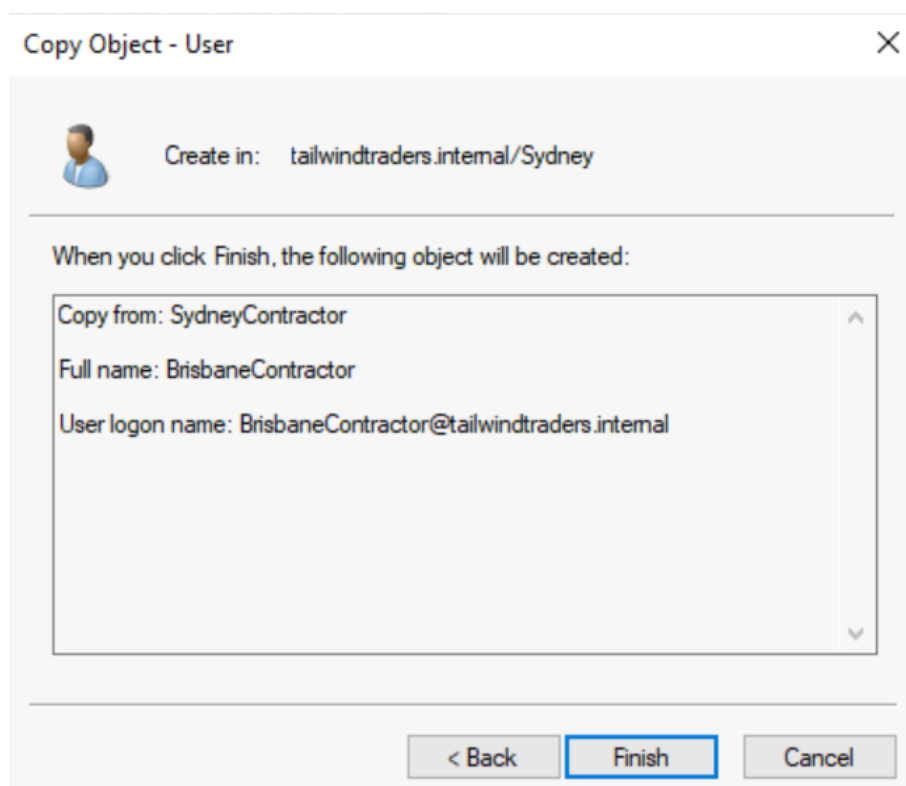
Screenshot:



Continued....

Reset BrisbaneContractor password to Pa66w.rdPa66w.rd.

Screenshot:



Continued....

Implementation Summary

The deployed structure provides a robust framework for delegated administration, security enforcement, and operational management within Active Directory. This environment supports geographic segmentation, group-based security, and comprehensive account lifecycle management.