IT2654: Systems Administration & Security

TOPIC 8:
SERVER ADMINISTRATION

Objectives

- Server management tools and processes

- Remote services

- Delegation

Network Administration

- In a Windows Server environment, administrator will normally be responsible for more than one server

- A useful tool for administrators to manage remote servers is Microsoft Management Console (MMC)

- Secondary logon is another useful tool for administrators

Secondary Logon

runas /user:administrator regedit

- Use the Run as command to log on with a non-administrative account and still perform administrative tasks

- Run as allows a user to run specific tools and programs with different permissions than the user's current logon provides

- For most computer activity, log on as a user to perform routine tasks and use Run as to perform administrative tasks

- You can start Run as:

  - In the user interface on the Start menu

  - In Windows Explorer

  - In the command line prompt

Remote Administration
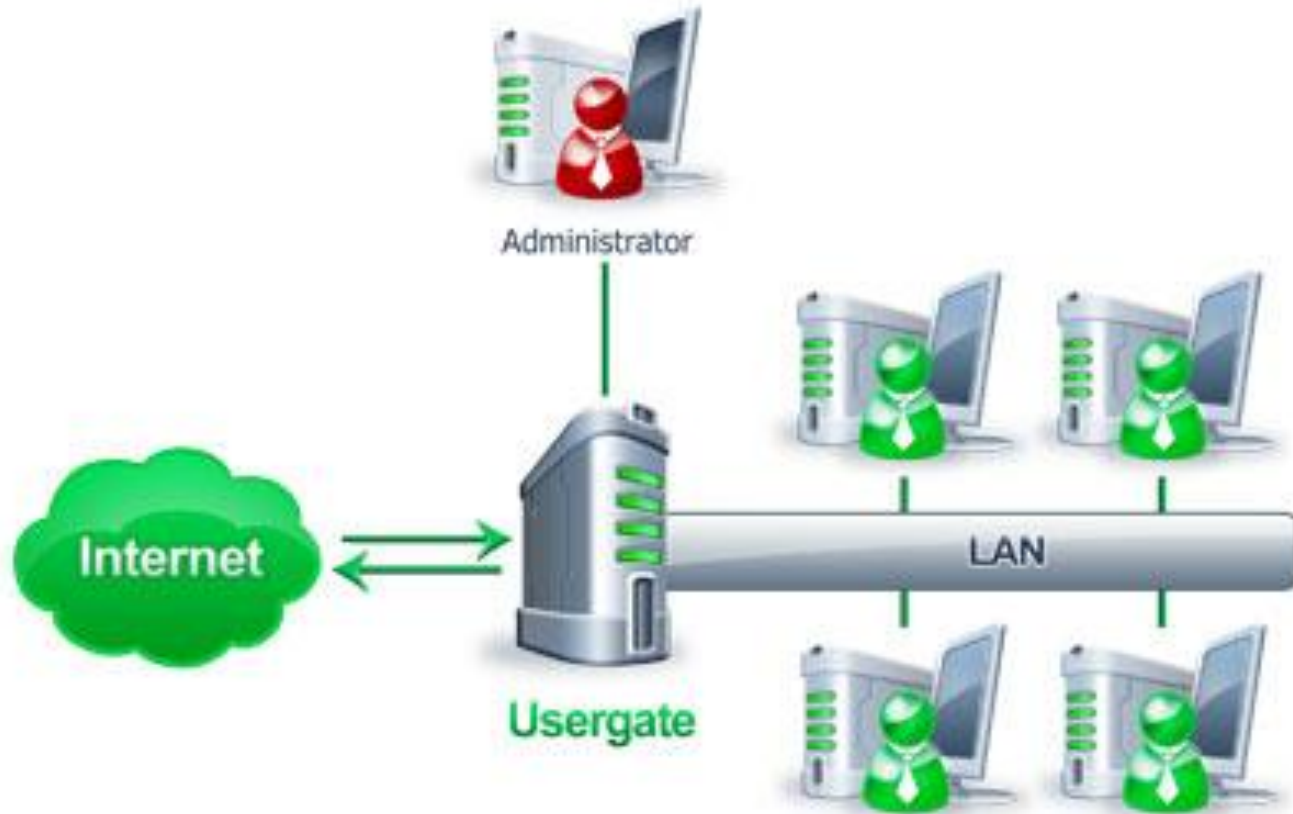
Remote Desktop Administration Benefits

- Provide remote access to most configuration settings

- Diagnose a problem and test multiple solutions quickly

- Allow access to servers from anywhere in the world

- Perform time-consuming batch administrative jobs, such as tape backups

- Upgrade server applications and operating systems remotely

# Enabling Remote Desktop for Administration

- Installed automatically as a part of Windows Server

- Once enabled, only Administrators group can connect by default
  - Maximum 2 users can be granted access
  - Server will support **2 concurrent connections** from users who belong to the Remote Desktop Users group

- No additional licensing is required.

Enable Remote Desktop Connections

- Open Control Panel, System Properties, Remote Settings, Select Allow Users to Connect Remotely
- Add users to Remote Desktop Users group and configure this group to allow remote log on.
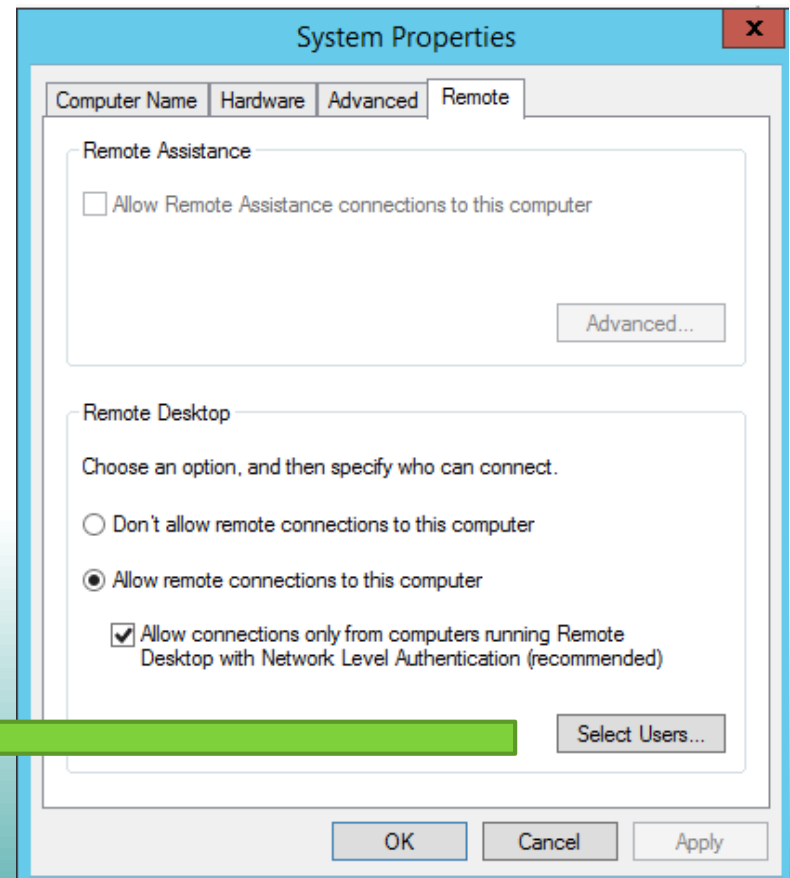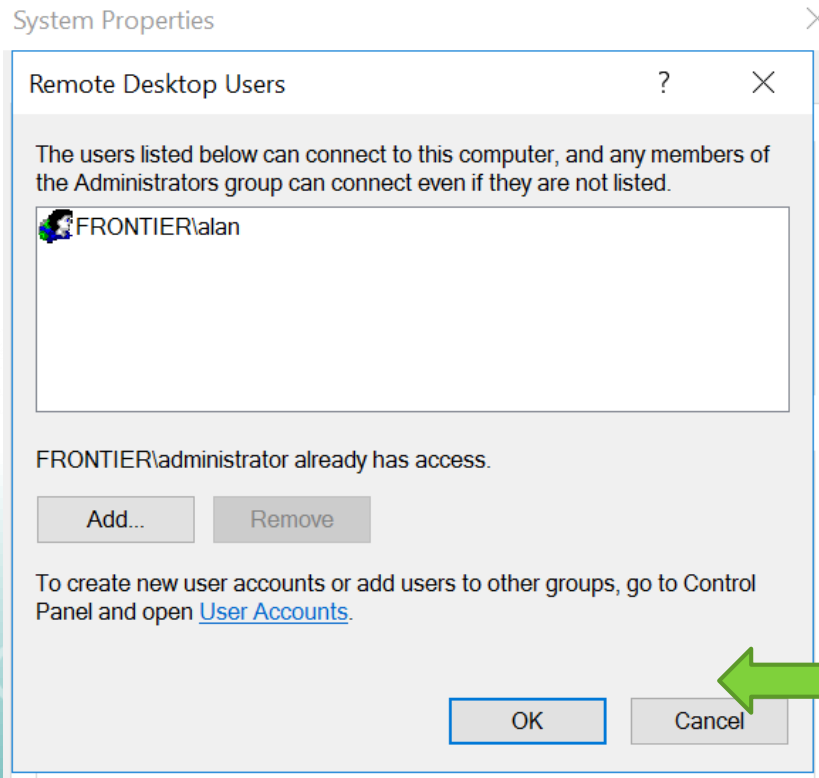
Client - Remote Desktop Connection
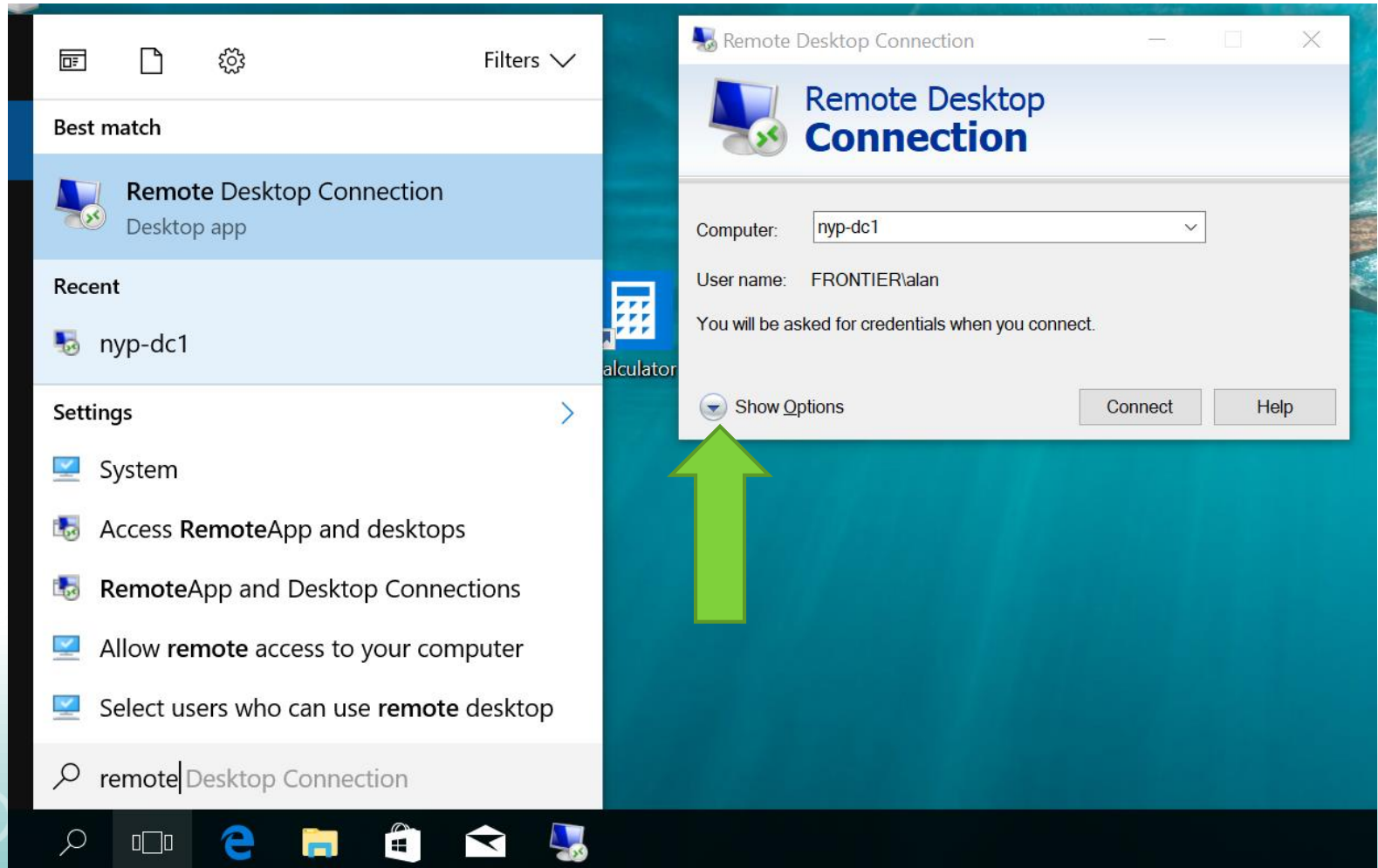
Remote Desktop Connection – Client Preferences

- Remote Desktop Connection preferences
  1. General
  2. Display characteristics
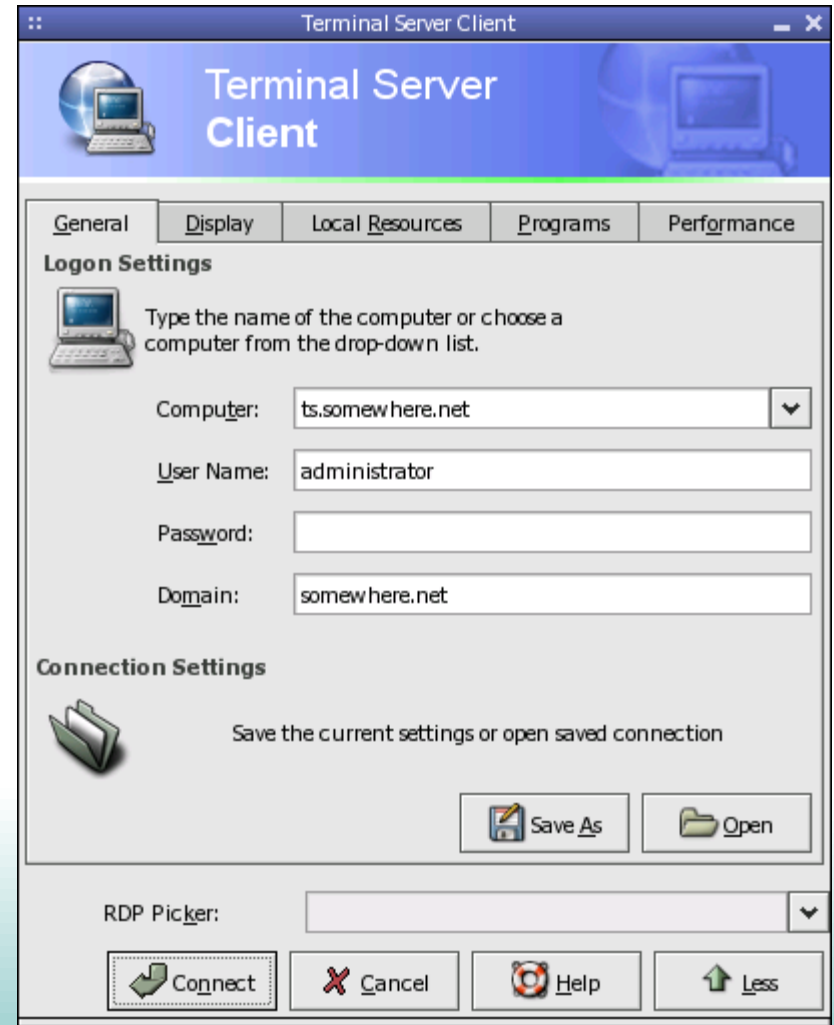 3. Local Resources
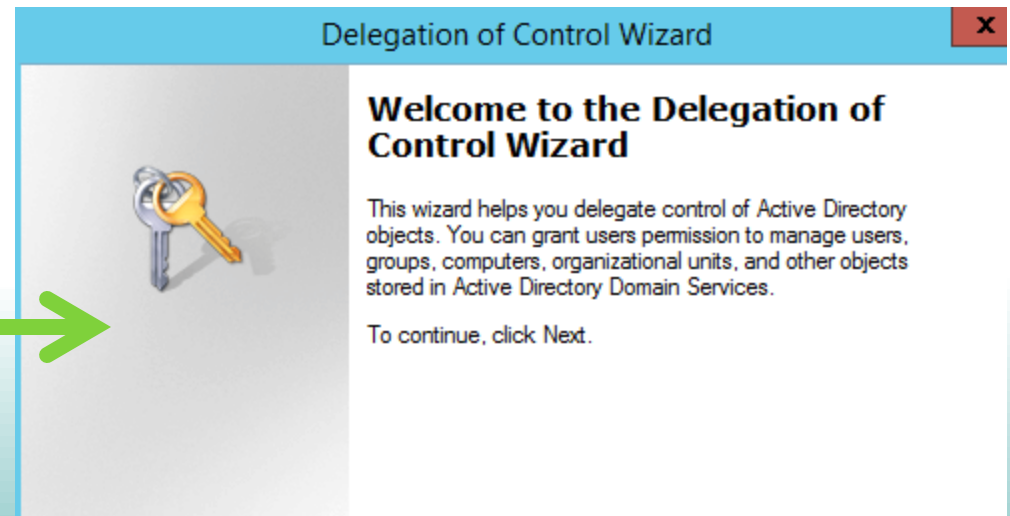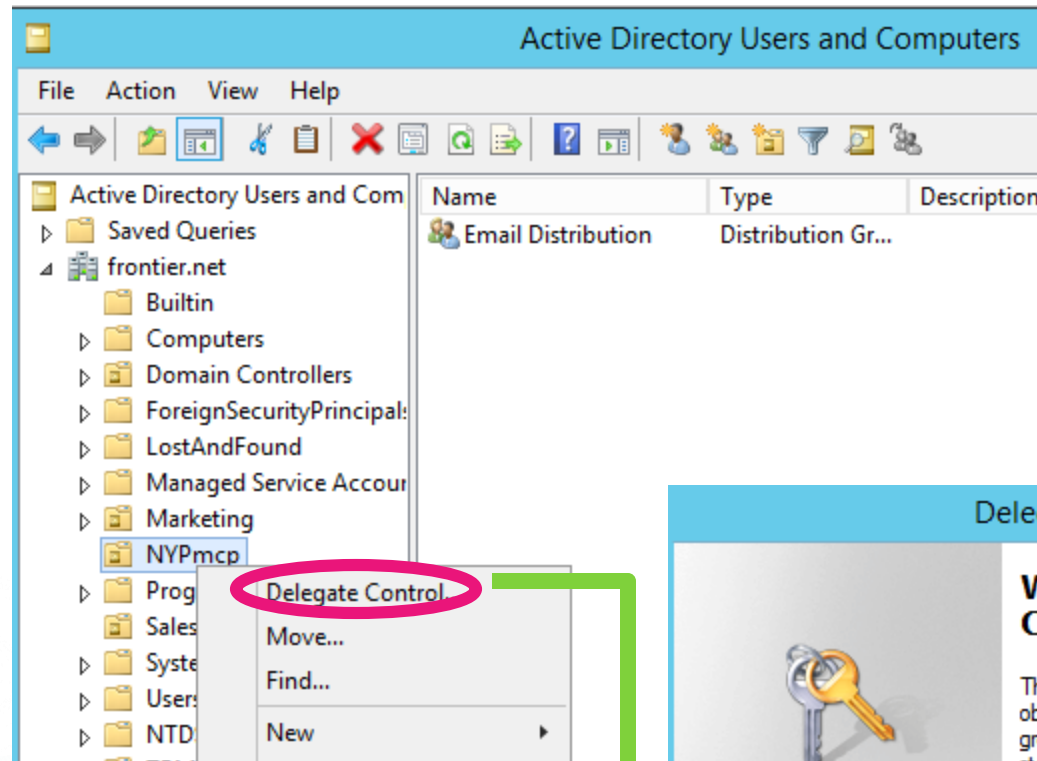 4. Experience
  5. Advanced
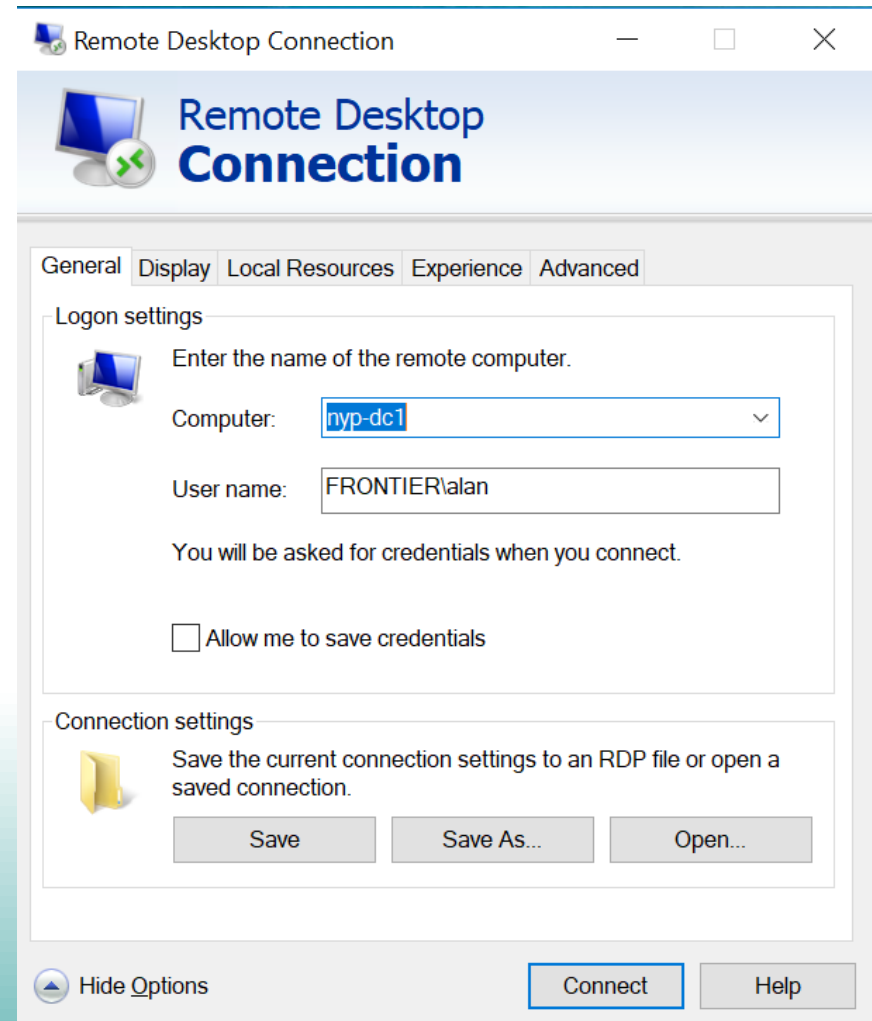
Sales1 RDC from NYP-CL1 into NYP-DC1
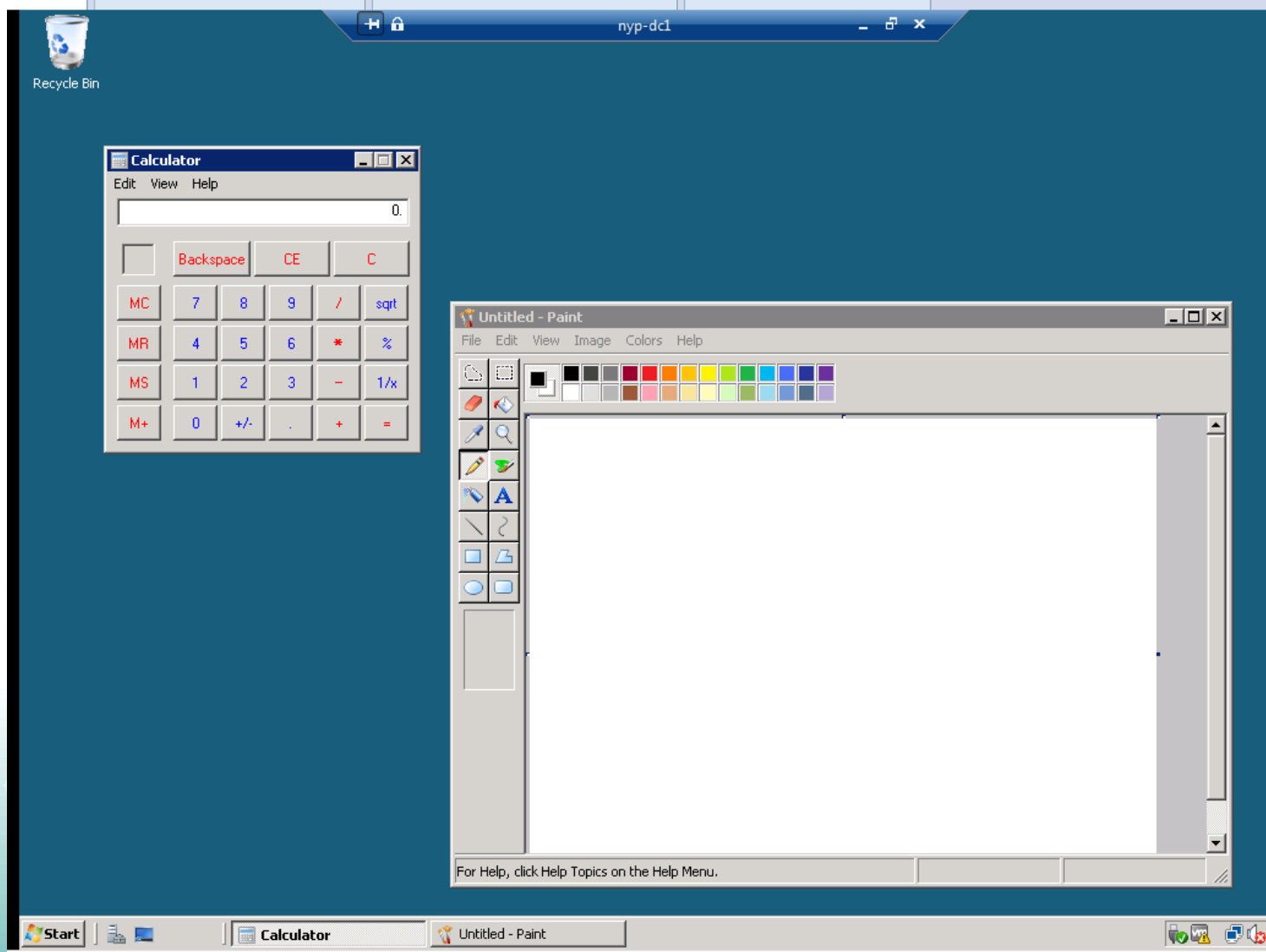
Linux Clients

- **Rdesktop**
  - freeware client
  - www.rdesktop.org
- **Tsclient**
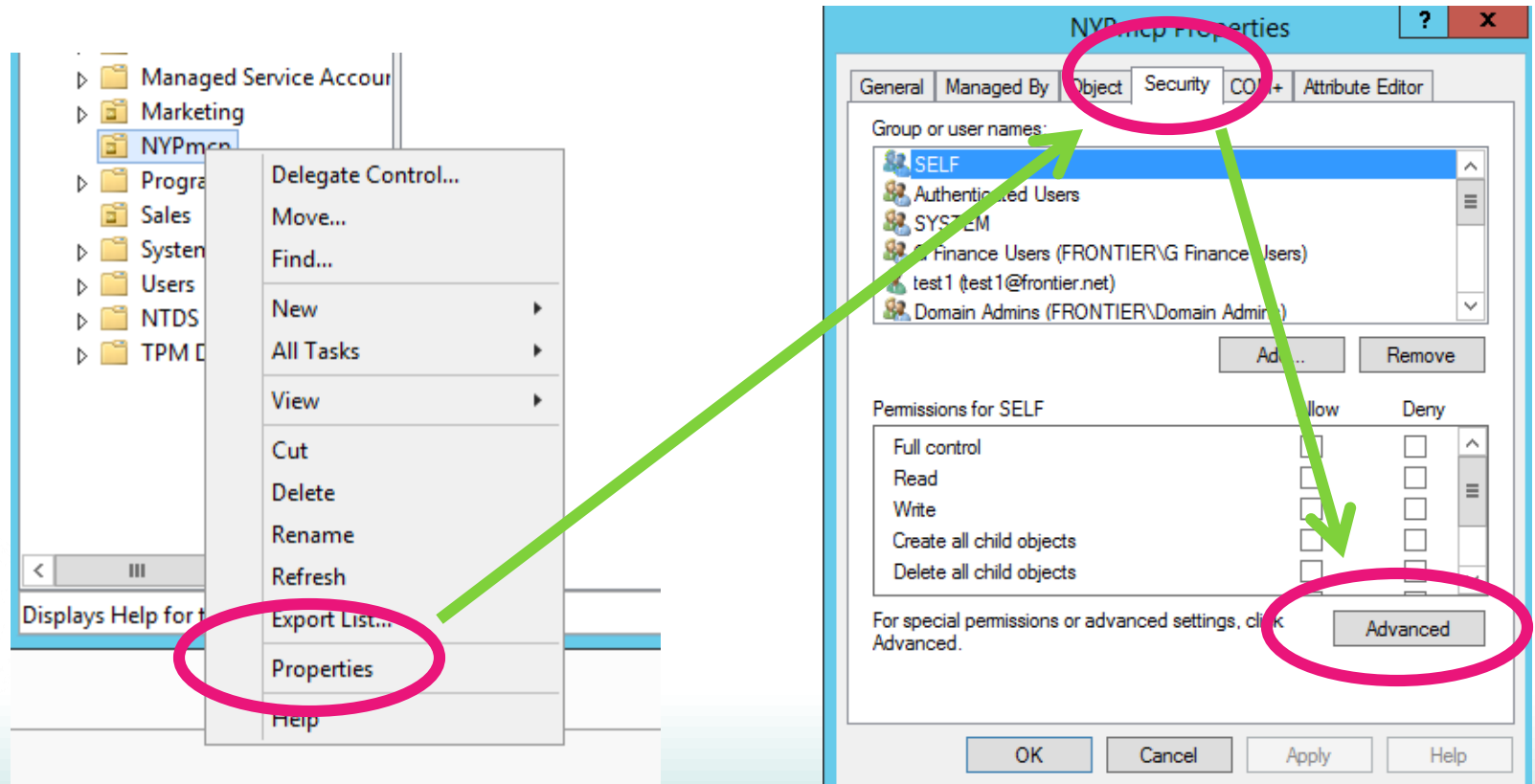 - freeware front-end for rdesktop.
  - Google for latest version.

Delegating Administrative Authority

- Allows a user to perform a set of assigned administrative tasks for a specific OU.

- Tasks include:
  - ✓ Create, delete, and manage accounts
  - ✓ Reset user passwords, and force password changes at next logon
  - ✓ Read all user information
  - ✓ Create, delete, and manage groups
  - ✓ Modify the membership of a group
  - ✓ Manage group policy links
  - ✓ Generate resultant set of policy
  - ✓ Others

Delegation

Checking Delegation

Delegation Result

Bob has been delegated the rights to reset user's password

Summary

- Tools used to manage server tasks and remote management of clients:
  - Microsoft Management Console (MMC)
  - Secondary logon feature
- Remote Desktop for Administration allows administrators to connect to and interact with remote servers.
- Client use Remote Desktop Connection to remote login.
- Administrative authority for Active Directory objects can be delegated through object-level and attribute-level permissions.