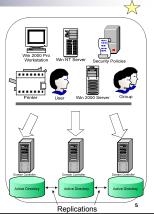




Replication

- In a Windows 2003 network, you can create multiple domain controllers (DCs)
- Each DC stores a copy of the Active Directory
- Each DC replicates changes in its copy of Active Directory to other DCs.



6

Global catalog (GC)

- During AD installation, W2003 Server creates a Global Catalog on the 1st DC
- The Global Catalog stores:
 - Information about all objects in the initial DC
 - Partial information about objects in other domains (attributes needed for search).
- An index and partial replica of objects and attributes most often used in AD database

Global Catalog (GC)

- Common attributes stored in the GC: users' first and last names, logon names, email address
- GC is primarily for:
 - Enabling users to find AD information from anywhere in the forest
 Providing authentication services when a user from another domain
 - logs on with a User Principal Name (eg. john@east.contoso.com)
 Responding to directory lookup from application programs like Microsoft Exchange.

When a Global Catalog server is not available, the user can only logon to the local computer.

Namespace and DNS Domain Name Service (DNS): Service that performs name resolutions, i.e. conversions between IP addresses and domain names Name resolutions take place in a logical area of the network called Namespace A Namespace includes (1) the Active

Directory, which contains named objects and (2) one or more DNS servers

8

