ST2612 Tutorial 2 (Week 4)

Recap of Practical 2, Practical 3, Lecture 2 and Lecture 3

Learning objective of Practical 2:

* Perform basic window storage management operations.
* Using the Best Practices Analyzer (BPA) to check against the configuration of a window server.
* Create and configure Organization Units within a Domain.
  + Difference between OU and normal folder.
  + Delegation feature enable delegation of day to day administrative tasks (Mostly account/group oriented) to business owners.
* Carry out basic domain user account management.
  + The difference (and the applications) between Domain Accounts and Local Accounts.
* Using Remote Server Administration Tools (RSAT) Apps at the Client Workstation.
* Understand the basic operations of security groups operations.
  + To be elaborated in Lecture 3 and the AGDLP practices. Learning objective of Practical 3 (beginning part):
* Joining a Windows 2012R2 server to a Domain
  + Re-confirmation the concept and procedure of joining to a Domain.
  + Preferred DNS of a domain member 'must' refer to the Domain's own DNS server.
* Configuring NTFS/Shared Folder Permissions

Enable Network Discovery and Shared Folder feature using (SCW) Lecture 2 is focus on the following:

* Setting up of an Active Directory.
  + Prepare a 'clean' system using Sigverif and sfc.
  + Sigverif checks signature of 3rd party drivers and ensure is valid. SFC checks the checksum of
  + Use Server Manager for Domain/Server administration.
* BPA - A role based scanner to identify potential and/or existing system issues.
  + Provide some information / suggestions.
  + No automated solutions.
* Introduction to the Active Directory Structure
  + Forest, Tree, Site, Domain, OU
    - Schema
    - Global Catalog
      * Contains 'indexes' to all objects in the forest.
      * Support fast forest wide object lookup.
      * Each domain contains at least one Global Catalog.
    - Namespace
      * Contiguous vs Disjointed
  + Multi-Master Replications between DCs.
    - DCs to DCs within the same domain (Active Directory Database Replication)
    - Cross Domain DCs to DCs replications (Global Catalog Replication)
    - Replication efficiency can be improved:
      * Proper configuration on Site to Site communication costing.
      * Utilize bridge server if it is applicable. Lecture 3 (Beginning Part):
* Account and Security Group Management
  + Disable vs Delete Account
  + Security Group Attributes
    - Scope - the domain in which the group exists.
    - Membership capabilities - what type of Active Directory objects can be its member.
    - Permissions - resource permissions that have be granted to the group.

Self-evaluation Check list

* How often should we run the BPA for a server? Why?

BPA is a role-based scanner

Every time you add a new role or feature. BPA allows for you to scan for configurations and errors in your server.

Or regular checking every month

Often every 6 months as Microsoft releases new BPA rules periodically

* What is the main advantage of implementing Active Directory in a Windows System?
* What is the primary prerequisite to implement Active Directory in a Windows System? (Bad Question)

Need to have a network for Active Directory

Need to have a server-based windows system to be able to add the ADDS role, Domain Name server and file and printer services

* What is the relationship between the Windows Registry Database and the Active Directory Database?

Group policy is stored in the Active Directory Database. It is pulled out and translated to the Windows Registry Database for configurations to the local machine

* List all the hierarchical containers in the Active Directory Structure.
* What is the 'Namespace' in an Active Directory?
* Briefly describe the possibility of setting up servers which belong to different Domains in the same Site.
* A user account, Mary, belongs to two global security groups: G1 and G2. The permission settings given to G1 only allows it to have read only access to a file X. The permission settings of G2 allows it to have read and change access to the file X.

What will be the effective access right of Mary having for the file X ?

Challenging questions:

* Briefly describe the best approach to ensure only a group of selected domain user accounts can send print jobs to a particular network printer (The printer is attached to a domain member.).
* Identify three major difference between BPA and SCW in terms its functionality and applications.

(Hint: Ask yourself: When will you use SCW and when will you use BPA ?)

* Briefly describe what the NTFS inherited permissions is and what will be the combination effect of inherited permissions and explicit permissions?

Nano Test Questions (Will be given by your tutor).

Q1.

Q2.

Q3.

Q4.

Submit your answers to the Nano Test Journal before the end of the class.

~ That's All ~