

# Network Attached Storage QNAP Disk On-line Server

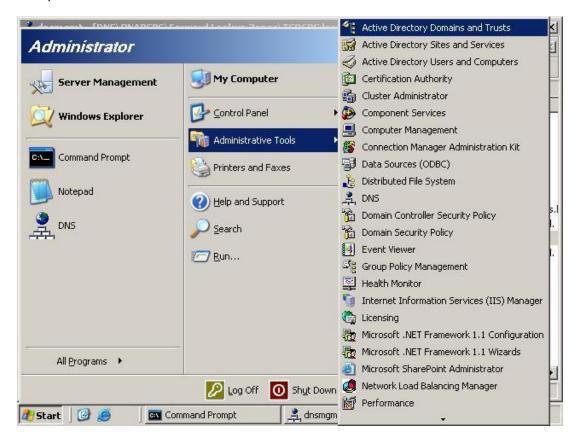
# NAS Series How to Join AD Domain

#### Check the following items before joining AD domain:

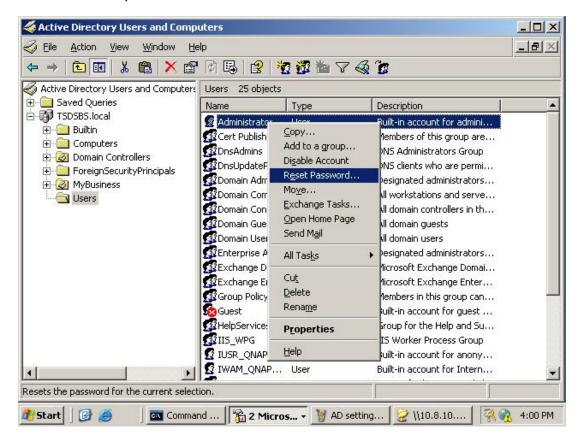
NAS firmware version V4.x can only be joined to pure AD domain (DC, domain controller). To join PDC domain (NT Server, or Windows 2000 with Mixed Mode), please ask your distributor to degrade NAS firmware version to V3.x. It is suggested to use Windows 2000 Service Pack 4 or Windows 2003 Service Pack 1.

## **Check your AD server settings:**

Make sure you have enabled Active Directory Service on the Windows server.
 If you have enabled AD, you can find the menu "Active Directory Users and Computers" on "Administrative Tools" of Windows.



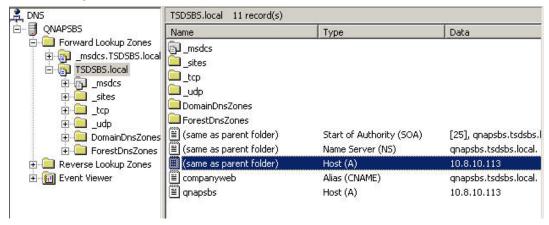
2. Reset the password of "administrator" account on AD server after creating "Active Directory" service on AD server.



3. The DNS server settings on the AD server should have at least two records.

For example, you have an AD server with IP address **10.8.10.113**, server name: **qnapsbs.tsdsbs.local**, domain name: **tsdsbs.local** 

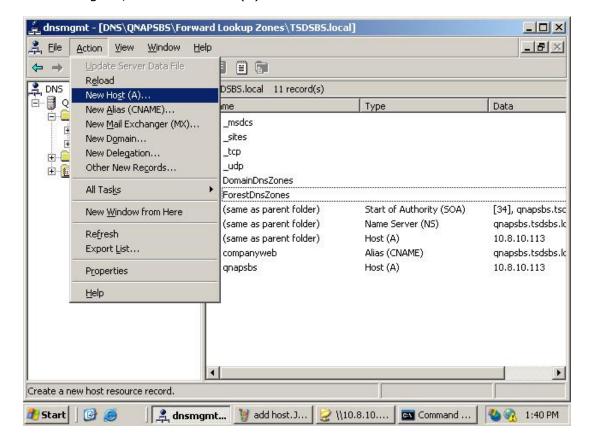
#### DNS settings on AD server:



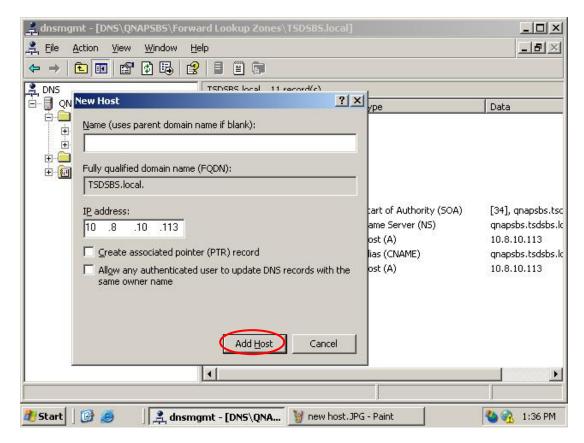
- a. "A record" for AD server itself → qnapsbs Host(A)
  - 10.8.10.113
- b. "A record" for domain → (same as parent folder) Host(A)
  - 10.8.10.113

#### \* How to create "A record" for domain on DNS settings:

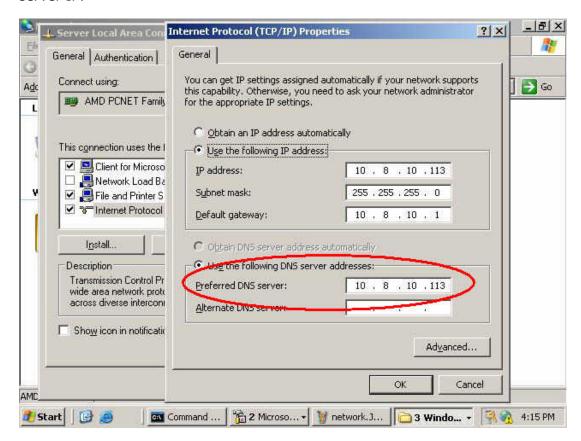
a. On "dnsmgmt", select New Host(A) in Action.



b. Enter IP address: 10.8.10.113 (AD server IP address), and then click "Add Host".

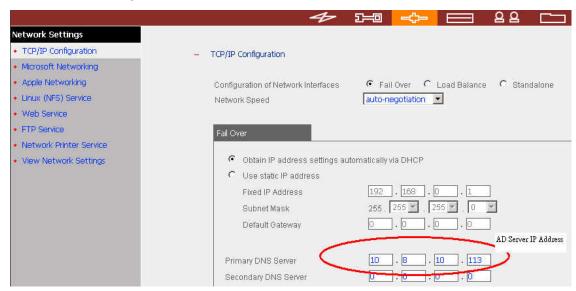


4. The DNS IP on "Network setting" of AD server should have a record of the AD server IP.



#### Check the following items on NAS:

i. DNS server setting on NAS should be directed to AD server.

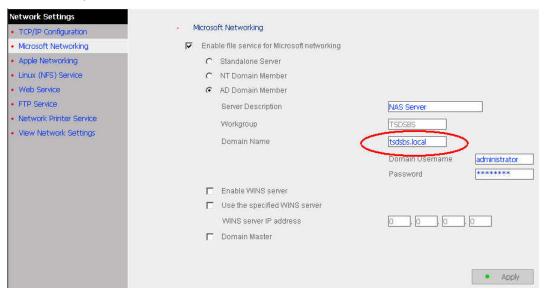


ii. Check the "time zone" and "Current date and time" on NAS, AD server can synchronize only if their time difference is less than 5 minutes.



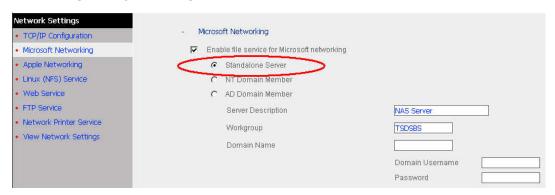
5. You should use the full domain name in AD settings of NAS.
For example, if your FQDN name of AD server is "qnapsbs.tsdsbs.local", you should use "tsdsbs.local" as the domain name.

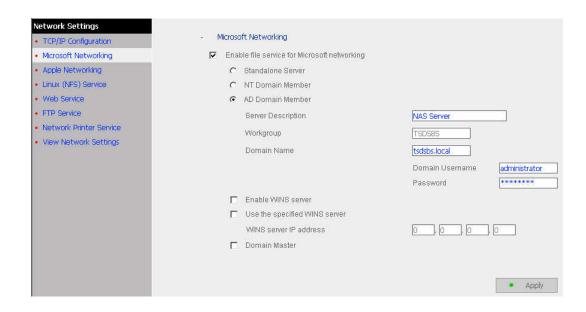
Domain Username must be entered for AD domain. (We use "administrator" in this case).



6. NAS and AD server will synchronize each 5 minutes. To configure the settings manually, NAS has to be set as standalone mode and then added to AD domain again.

If you cannot join AD domain, please switch to "Standalone" setting. Check all the settings and join AD again.





### **Notes on joining AD:**

 After joining NAS to AD domain, you must login the share folder of NAS by "domain\_name\Username". NAS local user account cannot be used anymore on network sharing.

For example: norman is an account on the AD domain (tsdsbs.local):



- ii. AD can be joined successfully even if NAS and AD server are on different subnets.
- iii. After NAS has joined AD domain, the authority of "everyone" will not work, "everyone" is the original account of NAS, but is not included AD. Therefore the authority has to be reset.
- iv. DNS settings on Windows 2000 server should be added as "Active Directory DNS".
- v. If you change the DNS setting on the Windows server, please reboot the server to avoid DNS cache error.