SYNEL ™

360-365 WORKFORCE MANAGEMENT

Dear valued Distributor & Business Partner,
Synel proudly presents you to

SY HARMONY

DEMO SERVER

The HARMONY Demo Server allows you to
experiment with world leading Workforce & Security
Management Solutions for Organizations.
SYNEL offers you to try this innovative service
to experience what HARMONY has got to offer

For better training
we recommend following the instructions & workflow below.

The pssword is active for one week
TO GET YOUR PASSWORD PLEASE CONTACT:

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Using HARMONY Demo server
26th lesson
Enter the HARMONY Client
use the user name and password provided by the tech team

Working Environment

1. SY-Server and Harmony Server Computers
The number of employees and Harmony users are the main factors in determining
what hardware is optimal for the SY-Server. When installing a Harmony system,
make sure the customer has the following hardware:

Parameters	Application Server + IIS	DB Server	Clients
Processor	Minimum Xeon Quad Core 56xx series X 2 or later More than 20 users & 10,000 employees - 2 processors WEB module include for both	Minimum Xeon Quad Core 56xx series or later	Minimum Pentium IV
RAM memory	16 GB	8 GB One CPU to 8G RAM. Recommended 2 CPU's.	1GB recommended
Controllers and disks	Fast SAS Disk Drive 15kRPM RAID1	Fast SAS Disk Drive 15kRPM Raid 5 or 10 64K formatted separate disk(s) for database files .	2 GB available
Communication Card	Minimum 100 Mbit/s	Minimum 100 Mbit/s	Minimum 100 Mbit/s
Operation System	Windows 2008 R2 (Recommend)	Win 2008/2008 R2	Windows XP Pro Windows 7 Pro
Web Browser	Microsoft.Net Framework 4 required		IE - v. 8.0, v9.0 Opera – v. 11.50 FireFox – v 3.6.8 Google Chrome – v.12.0
IIS	Version 7		n.a.

2. Microsoft SQL Requirements
MS SQL 2008/2008 R2 (Recommend) Processor License (latest Service pack)
- Supported
- Server Management Studio is required

MS SQL must be installed in mixed mode (Windows and SQL server authentications).
The collation of the SQL server must be Latin1_General_CI_AS.
Choose Simple Mode in database properties options.
The SA username and password are required during installation.

SQL Database Growth:
- Up to 1000 employees with Time and Attendance module only, 2 GB per year.
- Up to 1000 employees with Time and Attendance and Access control modules,
  4 to 5 GB per year.

Database maintenance and backup:
   The customer is responsible for backup and maintaining the Harmony SQL database.

3. Domain
- The servers (database, application and IIS) and the Harmony clients must be on the
  same Active Directory or Trusted AD.
- We highly recommend creating in advance a "user group" object in Active Directory
  for all Harmony Users.

4. Ports
- Port 3734 must be open for TCPIP communication with the time recorders
  (it's default, but may be changed).
- 3 more ports are required for Syserver, Notifier and Guard between 6000 and 6005.
- Protocol: DCOM TCP on port 135- 137, 141 - 445.
- SQL - 1443.

5. Support
- Remote Access to all servers is compulsory, ideally not restricted to fixed IP addresses.
- support user must be member of Domain Users group and Local Administrator
  on the server

6. Thick and Thin Clients
- 10 MB minimum available bandwidth is required for the Harmony Windows Application
- The Windows Terminal Server or Citrix Servers should not be on the Harmony
  Application Server Recommended.
- The user that runs the harmony client should have full permission to the HARMONY
  CLIENT folder and all its sub folders.

7. VMWARE or Hyper-V Virtualizations Systems
- Supported

8. Supported Network
- Microsoft

See you in the next lesson..