AeroDrive --- School Practical Use Case

School Name

Queen's College Old Boys' Association Secondary School (www.qcobass.edu.hk)

Network Configurations (Refer to figure 1):

    2 x AeroDrive Server with High Availability Module

    1 x Email/WWW/FTP server for Teachers and for School Web Page

    1 x Email/WWW/FTP server for Students

Description

1. AeroDrive Production Server User Accounts are replicated to AeroDrive Backup Server in real time.
2. User data files in AeroDrive Production Server are synchronized with AeroDrive Backup Server at night.
3. Email and FTP Account authentication request is sent to LDAP server in AeroDrive Backup Server.
4. Email alias is done by Postfix via querying user account entry in LDAP server.
5. System log from email and ftp server is replicated to AeroDrive Backup Server.

Benefits

1. **Centralized Account Management**:

   By consolidating all accounts in LDAP server, there is no need to maintain duplicate account database. The benefits are as follows:

       i.   No more password synchronization problem for users

       ii.   Administrator does not need to create a new account database for individual application: popular web-based applications such as web-based email, discussion forum and voting can now perform the authentication in the LDAP server.

2. **Security**

- By separating teacher and student files in two servers, your favourite php or cgi web-based program can now be deployed with ease.
- By implementing distributed logging feature, audit trail is more secure as there is one more copy of system log in AeroDrive Backup Server.

3. **Data and Service Backup**

   User files and account information are mirrored to AeroDrive Backup Server. In case of hardware failure of the AeroDrive Production Server, service interruption is minimal as the AeroDrive Backup Server can be brought online within minutes.
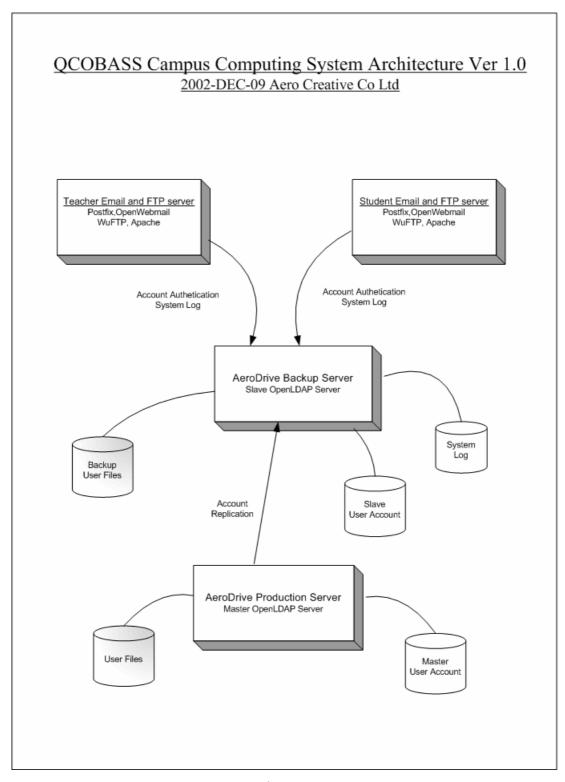
Figure 1

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