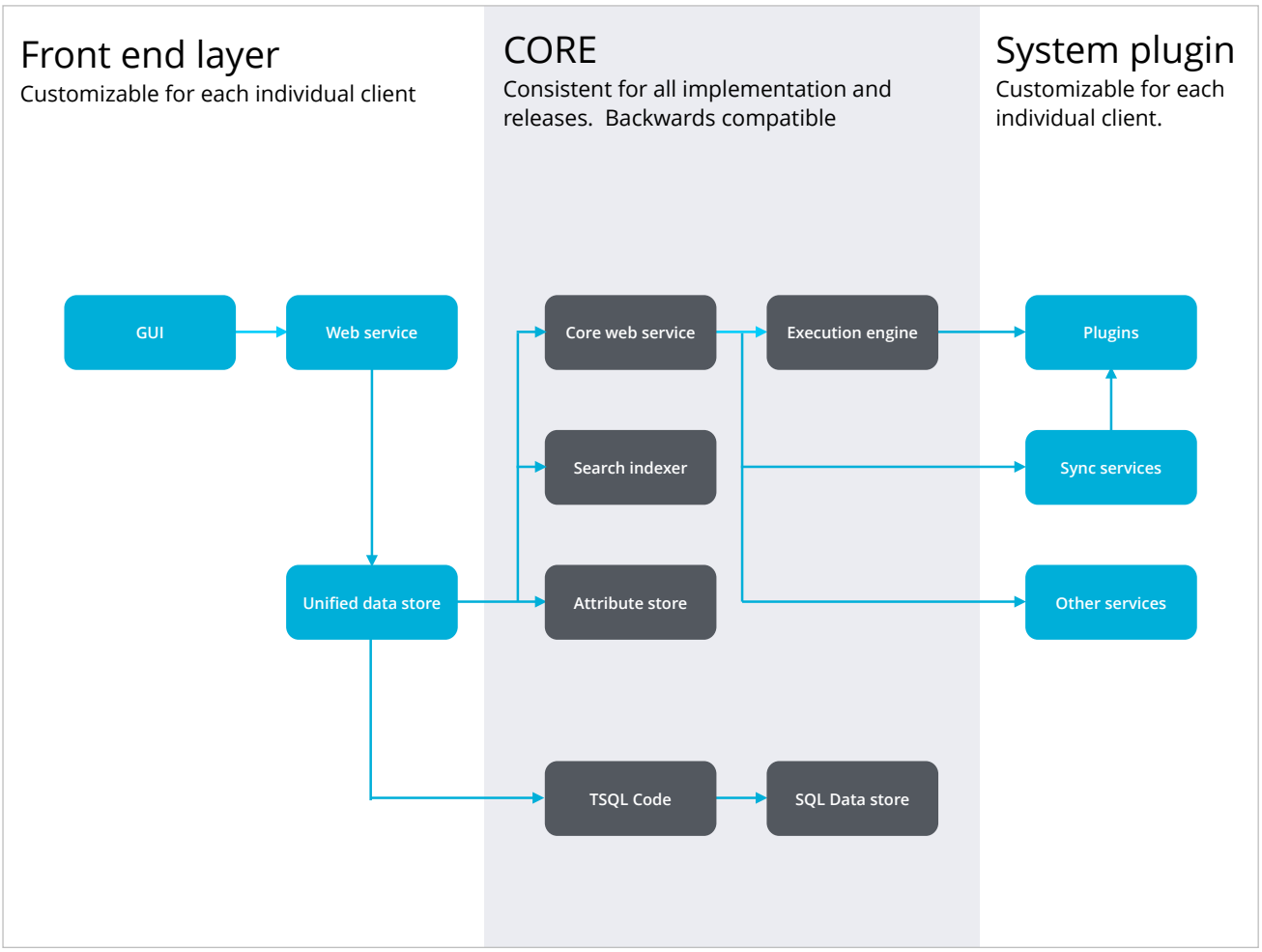
IDM365 Technical Information

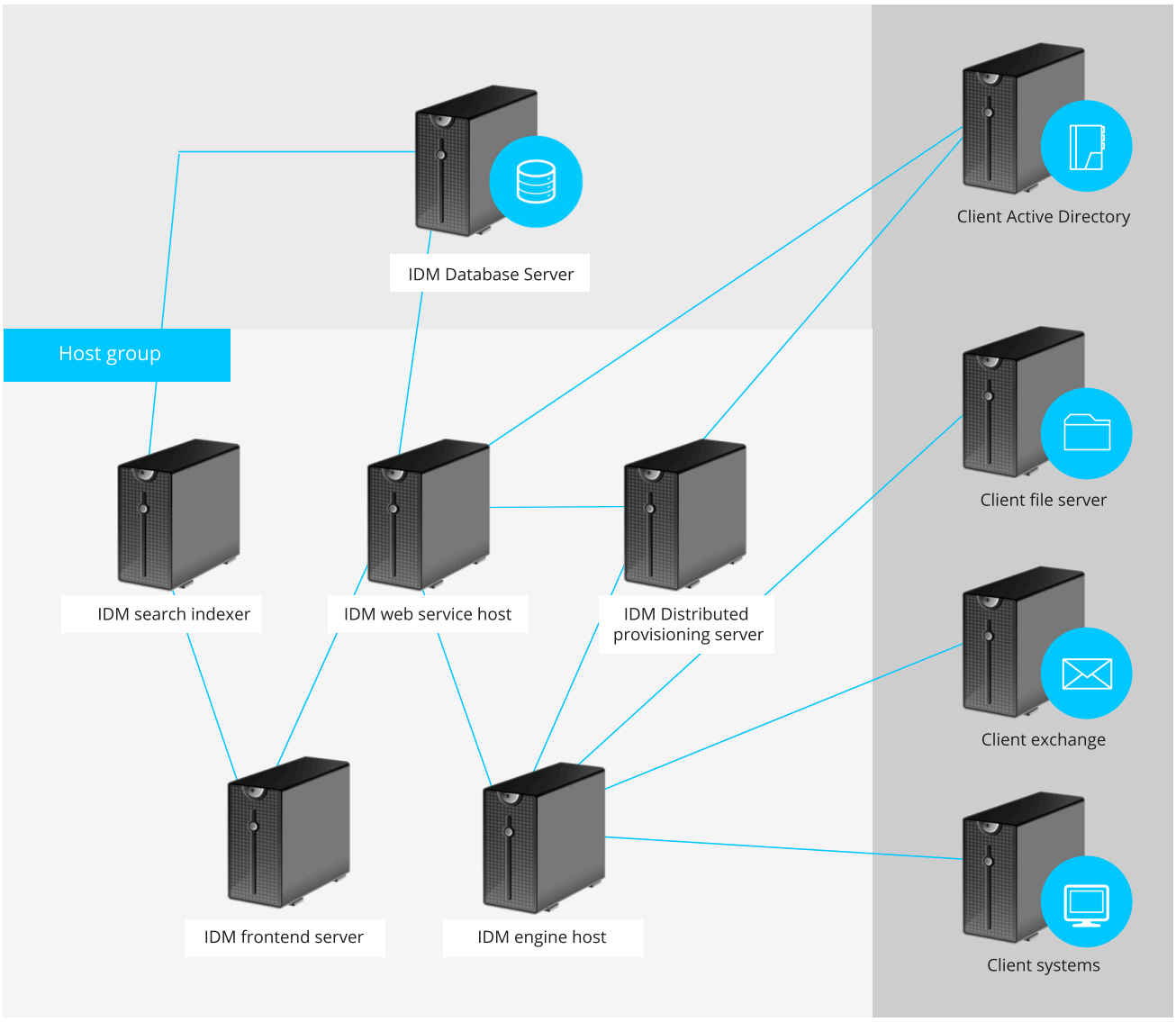
July 24, 2014

idm365.com

IDM365 Layers



IDM365 Server Infrastructure



Major hosted components of IDM365

1. Front end server *

- **Role:** Front end server hosts web interface and content store which is used in web interface of IDM365.
- **Operating system:** Windows server 2012 or later x64
- **Hardware:** Dual core processor with 4 GB RAM or higher depending upon the user base and frequency of access of system.

2. Search indexer *

- **Role:** Search indexer will host high performance IDM Search provider and will be responsible for keeping the indexes of data stored in SQL server up to date.
- **Operating system:** Windows server 2012 or later x64
- **Hardware:** Dual core processor with 2 GB RAM

3. Web service host*

- **Role:** This server will host all web services and WCF service related to IDM365, as services are used across various component including engines thus if web server shows high cpu /memory usage, it is advisable to host web services of system separately.
- **Operating system:** Windows server 2012 or later x64
- **Hardware:** Dual core processor with 4 GB RAM

4. Engine host*

- **Role:** This server will run 12 background processes including propagation engine.
- **Operating system:** Windows server 2012 or later x64
- **Hardware:** Dual core processor with 4 GB RAM

5. Database server

- **Role:** This server will host database of system.
- **Operating system:** Windows server 2012 or later x64, SQL server 2008 R2 or SQL Server 2012. It is advisable to keep DB server only for IDM365 but if user load is less than 3000 users it is possible to host the database on shared DB server where other databases are having moderate to low usage. In case of shared database server IDM database should be hosted with windows authentication enabled and IDMService user should have DBO access on database. In case of shared hosting administrator has to run several scripts and configure server to setup encryption certificate, linked server to active directory and provide access to such resources to IDM Service user.

  This server needs to have port 1433 or any SQL server port configured for instance available across firewall so that all other servers can access SQL Server
- **Hardware:** Quad core processor with 8 GB RAM (In case IDM database is the only database on server)

Note : All of the servers marked with * can be hosted on same hardware/virtual server with Quad core processor and 8 GB Ram. They can be separated out as separate server individually if required. The hardware requirement is applicable only in case of hosting the component on separate server.

6. Distributed provisioning host

- **Role:** This is an optional plugin which allows client to configure business rules on active directory propagation. This component has its own database and used only if client needs more control on how and what is written in their active directory by IDM. This module is high maintenance module and has its own logging framework and set of services and front end. It is advisable that in environment where single active directory is used by business they should use normal IDM AD connector as it does not require separate configuration and maintenance.
- **Operating system:** Windows server 2012 or later x64
- **Hardware:** Dual core processor with 4 GB RAM

IDM365 Security

The following security measures are followed for all implementations of IDM365:

- 256 bit encryption on all passwords
- We do not store system passwords in database
- Encrypted system integration information
- Database secured with windows authentication
- Extensive access log to ensure tracking of user and their access if necessary
- Access secured via windows authentication
- Role based access to functionality within IDM with well-defined security matrix
- Solution validated against various well known threats
- Well established release management process to ensure uninterrupted operation
- Regular data validation by team of experts to ensure consistency of data in system

IDM365 Software Dependency

	.Net Framework 4.0	Windows communication foundation on HTTP	ASP .net MVC framework 3.0	Jquery version 9.1	Customized Telerik control V2.0 for MVC with jquery 1.4.1	SQL Server 2008 R2/ SQL server 2012	Lucene.net V3.0.3.0	Windows Active directory	Exchange 2010	Exchange 2013	Lync	MCMS	Oracle data provider for .net version	SAP BI	SAP	Oracle	Email server	AD SQL Linked server	SQL Server certificate for encryption	Sharepoint	DFS	IIS 7
IDM Web interface	x	x	x	x	x	x		x										x				X
IDM Search	x	x	x	x	x	x	x															X
IDM software package plugin	x	x	x	x	x	x												x				X
IDM moblity management plugin	x	x	x	x	x	x												x				X
IDM Asset management plugin	x	x	x	x	x	x												x				X
AssetManagementService	x	x				x																X
AuditService	x	x				x																X
CommonService	x	x				x												x				X
CostControlService	x	x				x																X
ExecutionEngineService	x	x				x		x											x			X
GlobalSearchService	x	x				x	x															X
IDMSupportiveTimerWebService	x	x				x																X
InvoiceManagementService	x	x				x																X
NewCommonService	x	x				x																X
NewWinWebService	x	x				x													x			X
OldWinWebService	x	x				x																X
OrganizationSetupService	x	x				x																X
ProfileService	x	x				x																X
SoftwarePackageService	x	x				x						x										X
SupportDeskService	x	x				x													x			X
SyncService	x	x				x													x			X
SystemConfiguration	x	x				x																X
UmsConfigurationService	x	x				x													x			X
UserManagementService	x	x				x													x			X
WinProfileService	x	x				x																X
IDM365.EmailService	x	x				x																
IDM365.ExeucutionService	x	x				x																
IDM365.ExeucutionService.Email	x	x				x																
IDM365.ExeucutionService.Emailservice	x	x				x																
IDM365.ProcessToBatchJob	x	x				x																
IDM365.ProfileService	x	x				x																
IDM365.SupportDesk	x	x				x																
IDM365.SupportiveTimerService	x	x				x																
IDM365.SyncService	x	x				x																
IDM365SearchIndexService	x	x				x																
ProcessToActivateUser	x	x				x																
ADSIConnector	x							x														
Exchange2007Connector	x								x													
Exchange 2013Connector	x									x												
IDM365WebConnector	x					x																
Lync2013Connector	x										x											
MSSQLConnector	x					x																
OCSConnector	x										x											
OLEDBConnector	x																					
SAPBIConnector	x													x	x							
OracleConnector	x												x			x						
SAPConnector	x														x							
ShareFolderConnector	x																				x	
SharepointSiteConnector	x																			x		
IDM365.DistributedService	x	x	x	x	x	x		x														X