

Server Consolidation & Centralization

The University IT services started the server consolidation and centralization at the Data Center, there are benefits of servers consolidation & Centralization to one location:

Consolidation involves reducing quantities: Server consolidation will reduce the number of physical locations where servers are installed, the actual number of servers, the quantity of software licenses, or the number of points of management.

Improved standardization: Standards are more easily enforced across fewer servers. With fewer servers to monitor and manage, an organization can more easily ensure that they are running the same version of software, including service packs and patches, which benefits organizations in making management of the servers more consistent and efficient.

Improved security: Fewer servers present a smaller attack surface and create an environment that is easier to monitor for security problems and patch in the event of vulnerabilities.

Improved management: Fewer servers combined with the other improvements of consolidation, such as reducing the number of locations where servers are installed, may result in fewer administrators to manage the servers or may simply allow the administrators to do a better job managing them, such as keeping them up-to-date with patches. Fewer servers can enhance data backup operations and reduce the complexity of restore operations when required.

Improved facilities utilization: Centralizing and reducing the numbers of servers reduce the number of computer or server rooms that require specialized power, air conditioning, and physical security.

Expanding Virtual Infrastructure

Following the trend and need of reducing the power consumption the University IT services UITS continue on building and expanding a virtual infrastructure based on VMware platform for Linux and Windows Servers (x86 Processors) and LDOM for Sun Solaris Systems. At Present time there are over **200+** Servers running in this environment.

External Name Server

UAE University has upgraded the External DNS to deliver the external domain name resolution (DNS) service. Advantages of using Infoblox Appliance include central management of all UAEU domain Name Servers, reliability and easy maintenance for most critical network service.

To improve reliability and increase security of DNS system, UAEU followed Infoblox's suggested DNS best practices, using different appliance for forwarding, hidden primary and secondary system. This deployment provides protection of DNS data eliminates distributed denial of service (DDoS) vulnerabilities.