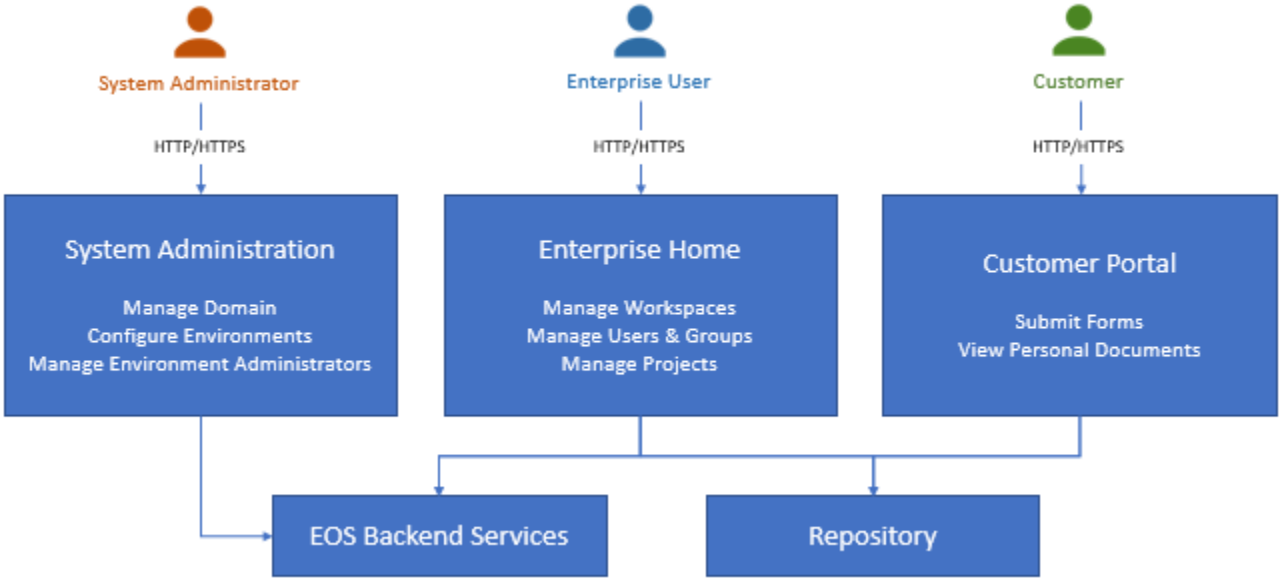
EOS Deployment Options

System Architecture

Architecture Overview

The architecture presents three distinct logical access points to users and applications.



To support this logical picture of the EOS architecture in various configurations, the deployment designer will distribute a set of independent service "components" over computing platforms (aka servers) to create a physical deployment configuration.

The main classifications of EOS components are either as front-end or back-end components:

- **Enterprise Home / Web Front-End** – IIS website providing access to enterprise users. Default port: 8094
- **Customer Portal Front-End** – IIS website providing access to customers. Default port: 8096
- **System Administration Front-End** – IIS website providing access to administrators. Default port: 8095
- **Backend Services** – Windows services for EOS, Publishing, Data, Analytics, Search
- **Database** – SQL Server database containing system configuration and repository metadata
- **File Storage** – Folder containing repository binary data (file contents)

Each component may be distributed on the same or on different servers, and the backend services may be replicated and pooled across multiple servers. File storage may reside on a local server's disk, or in a SAN/NAS.

Distributed Deployment Configurations

In some cases, it is desirable to host all of the components listed on a single server. This is useful for development environments, for example. When components are hosted on multiple servers, that is referred to as a "distributed" deployment configuration.

The most distributed setup that is possible without replicating any component hosts each of the following on a different server:

- **Enterprise Home / Web Front-End** – "EOS4" in IIS, port 8094
- **Customer Portal Front-End** – "PORTALEOS4" in IIS, port 8096
- **System Administration Front-End** – "ADMINEOS4" in IIS, port 8095
- **EOS Service Back-End** – "EOS4Svc.exe"
- **Publishing Service** – "PublisherSvc.exe"
- **Data Service Back-End** – "DASSvc.exe"
- **Analytics Service Back-End** – "BISvc.exe"
- **External Database Server** – "EOSDB4" in SQL Server (default value)
- **Internal/NAS File Storage** – "C:\ProgramData\Ecrion\EOSStorage" (default value)

Pooled Component Instances

Multiple *Publishing Service*, *Data Service* and *Analytics Service* component instances may be hosted on additional servers, typically with the server dedicated as a host for a specific component. These independent component instances are logically collected together as a resource pool. These are referred to as EOS "worker" servers.

Fully Expanded Distributed HA Configuration

A typical deployment designed for high volume and high availability illustrates a fully expanded deployment configuration. This full expansion is built from a three-tier architecture, as shown in the diagram.

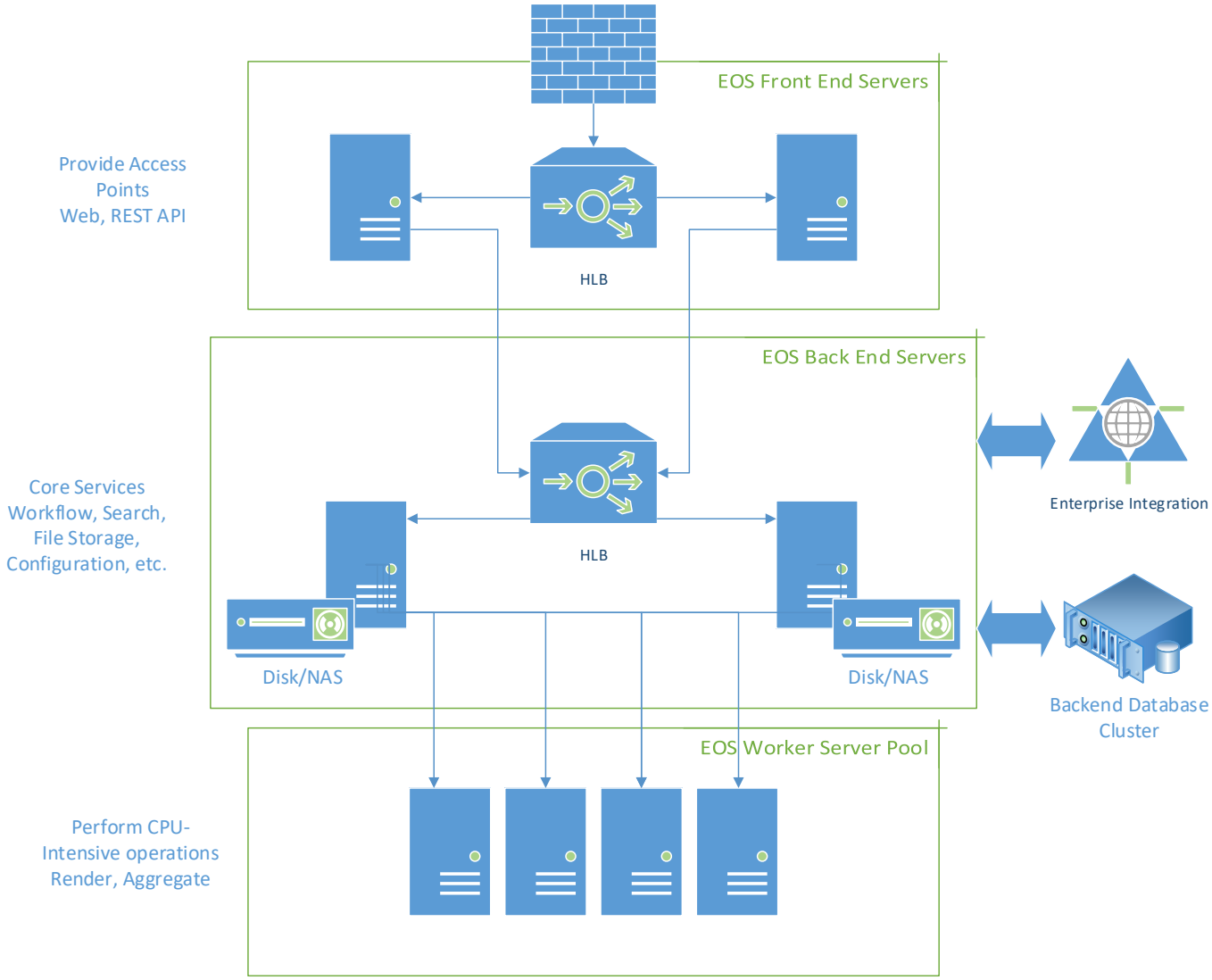


Figure 1: 3-Tier HA Deployment Configuration

All of the back-end component instances use the same database, which is typically a SQL Server cluster.

The file storages of the two back-end servers should be distinct, and can either be network addressable storage, or local storage. In the HA configuration, replication services are hosted on the back-end servers, and these keep the server-specific stores synchronized.