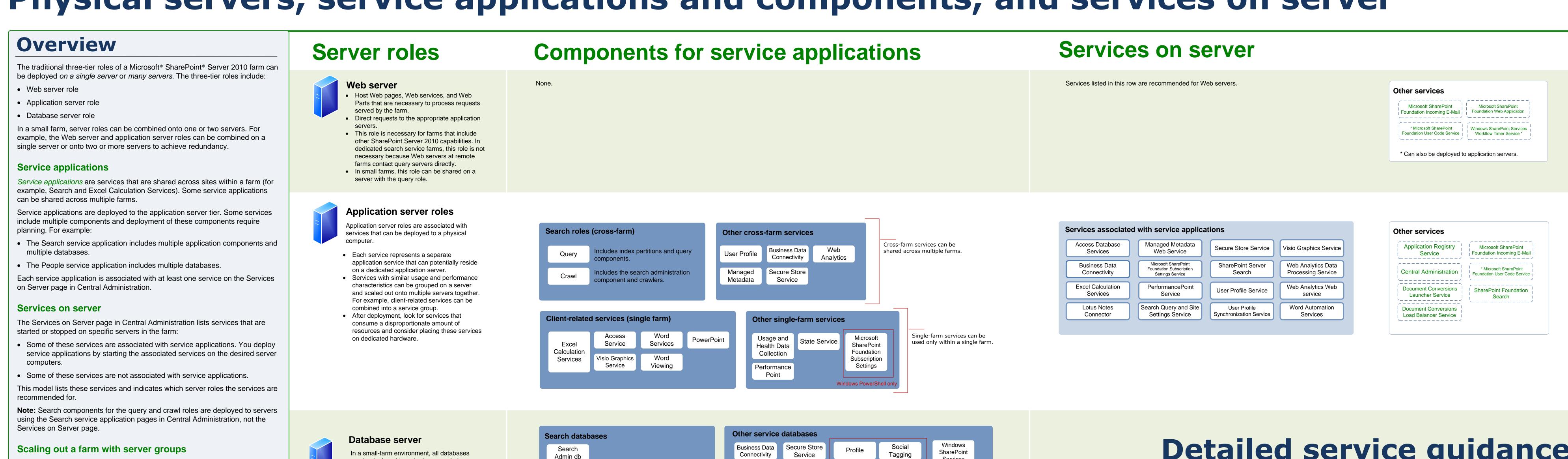
Topologies for SharePoint Server 2010

Physical servers, service applications and components, and services on server



Managed

Metadata

State Service

fultiple content databases, depending on the

olume of content and sizing goals for an

Multiple property

and crawl database

for medium- and

Content

Usage and

Synchronization

Health Data

Small to medium topology examples

can be deployed to a single server. In larger

deploy these to multiple database servers.

environments, group databases by roles and

Limited deployments

In SharePoint Server 2010, the number of services and corresponding

out a farm is to group services or databases with similar performance

service, such as Excel Calculation Services or Search.

on the specific demands for each service.

in Central Administration.

group.

characteristics onto dedicated servers and then scale out the servers as a

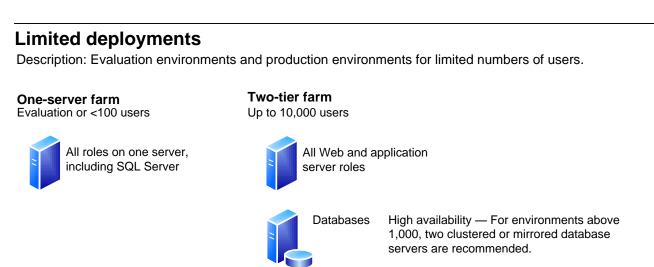
databases is greater than previous releases. The recommendation for scaling

For example, group all client-related services onto one or two servers and then add servers to this group as needed to satisfy user demand for these services. In some cases, you might need to create a dedicated server group for a single

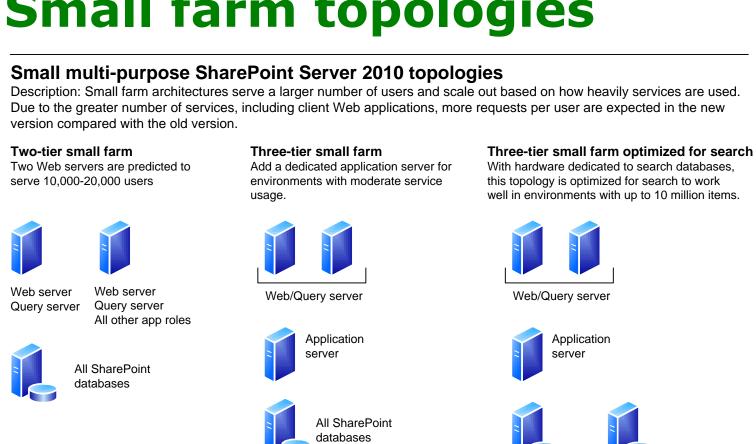
This model groups service applications and related components (for example,

databases) into several different logical groupings that can be used as a starting point. In large environments, the specific groups that evolve for a farm depends

Note: Server groups is a planning concept. This term and concept is not found



Small farm topologies



All other SharePoint

databases

Medium farm architectures

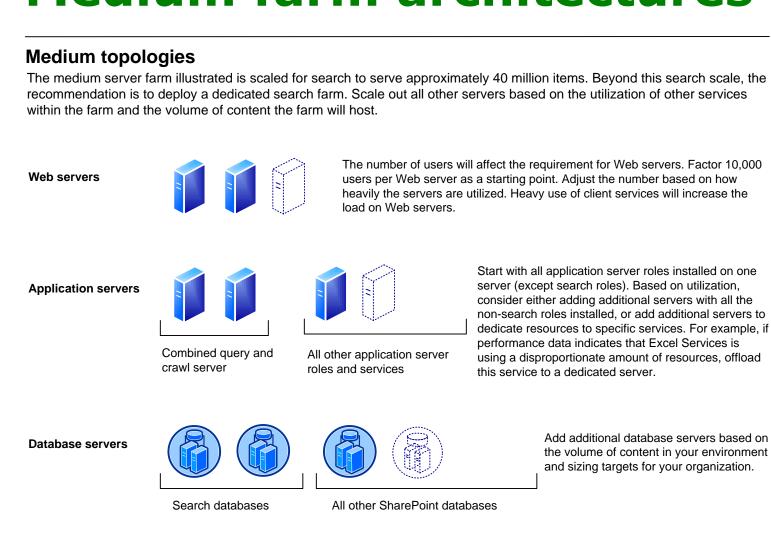
Property db

Content databases

Content

Content

Content



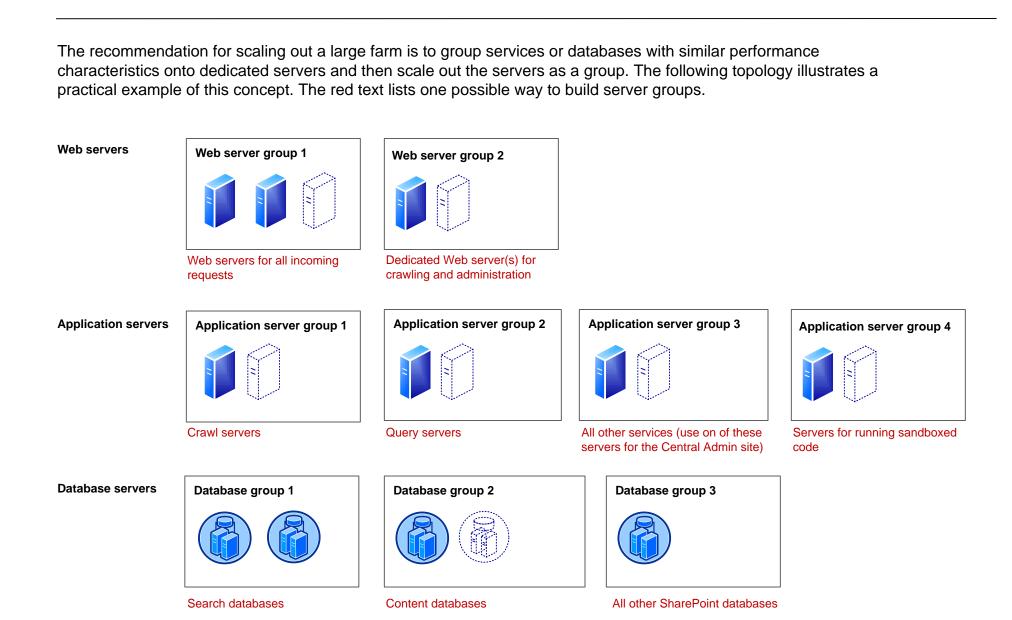
Large farm examples

Services

Subscription

Settings

Topologies with server groups



Detailed service guidance

applies. Note that search service application components are deployed to servers by using the search administration page, not the Services on

Service	Is this service associated with a service application?	Server recommendation	Additional information
Access Database Services	Yes	Application server	
Application Registry Service	No	Application server	Backward compatibility version of the Business Data Catalog service.
Business Data Connectivity	Yes	Application server	
Central Administration	No	Application server	This service runs the Central Administration site.
Document Conversions Launcher Service	No	Application server	Schedules and initiates the document conversion on a server.
Document Conversions Load Balancer Service	No	Application server	Balances document conversion requests from across the server farm. Each Web application car only have one load balancer registered with it at time.
Excel Calculation Services	Yes	Application server	
Lotus Notes Connector	Yes — Search	Application server — Start this service on the index server.	This service is required to crawl content from Lotus Notes Domino Servers.
Managed Metadata Web Service	Yes	Application server	
Microsoft SharePoint Foundation Incoming E-Mail	No	Web server or application server	Typically, this service runs on a Web server. If you need to isolate this service, you can start it on an application server.
Microsoft SharePoint Foundation Subscription Settings Service	Yes Note: This service application is deployed	Web server or application server — In hosting environments, this service is typically started on one or more	Start this service if you have deployed service applications in multitenant mode or if the farm includes sites using site subscriptions. This service stores settings and configuration data for topants

Excel Calculation Services	Yes	Application server	
Lotus Notes Connector	Yes — Search	Application server — Start this service on the index server.	This service is required to crawl content from Lotus Notes Domino Servers.
Managed Metadata Web Service	Yes	Application server	
Microsoft SharePoint Foundation Incoming E-Mail	No	Web server or application server	Typically, this service runs on a Web server. If you need to isolate this service, you can start it on an application server.
Microsoft SharePoint Foundation Subscription Settings Service	Yes Note: This service application is deployed only by using Windows PowerShell.	Web server or application server — In hosting environments, this service is typically started on one or more application servers.	Start this service if you have deployed service applications in multitenant mode or if the farm includes sites using site subscriptions. This service stores settings and configuration data for tenants in a multitenant environment. After it is started, Web applications consume this service automatically.
Microsoft SharePoint Foundation User Code Service	No	Web server or application server — Start this service on computers in the farm that run sandboxed code. This can include Web servers and application servers.	This service runs code deployed as part of a sandboxed solution in a remote, rights-restricted process and measures the server resources used during execution against a site collection-scoped, daily quota.
Microsoft SharePoint Foundation Web Application	No	Web server — Ensure that this service is started on all Web servers in a farm. Stop this service on application servers.	This service provides Web server functionality. It is started by default on Web servers.
Microsoft SharePoint Foundation Workflow Timer Service	No	Web server	This service is automatically configured to run on all Web servers in a farm.
PerformancePoint Service	Yes	Application server	
Search Query and Site Settings Service	Yes — Search	Application server — Start this service on all query servers in a farm. However, if it becomes memory intensive, consider moving this service to a dedicated computer to free up memory for query processing.	Load balances queries across query servers. Also detects farm-level changes to the search service and puts these in the Search Admin database.
Secure Store Service	Yes	Application server	
SharePoint Foundation Search	No	In a SharePoint Foundation farm, start this service on the search server. In a SharePoint Server farm, this service is only needed to search online Help. Start the service on any server in the farm.	This service provides search in a SharePoint Foundation farm. For SharePoint Server farms, this service is only used to search online Help. Start this service only on one computer.
SharePoint Server Search	Yes — Search	Automatically configured to run on the appropriate computers.	This service cannot be stopped or started from the Services on Server page.
User Profile Service	Yes	Application server	
User Profile Synchronization Service	Yes	Application server	
Visio Graphics Service	Yes	Application server	
Web Analytics Data Processing Service	Yes — Web Analytics	Application server	
Web Analytics Web service	Yes — Web Analytics	Application server	
Word Automation Services	Yes	Application server	Performs automated bulk document conversions. When actively converting, this service will fully utilize one CPU for each worker process (configured in Central Administration). If the service is started on multiple servers, a job will be shared across all the servers.