

# **ArcGIS Server Architecture**

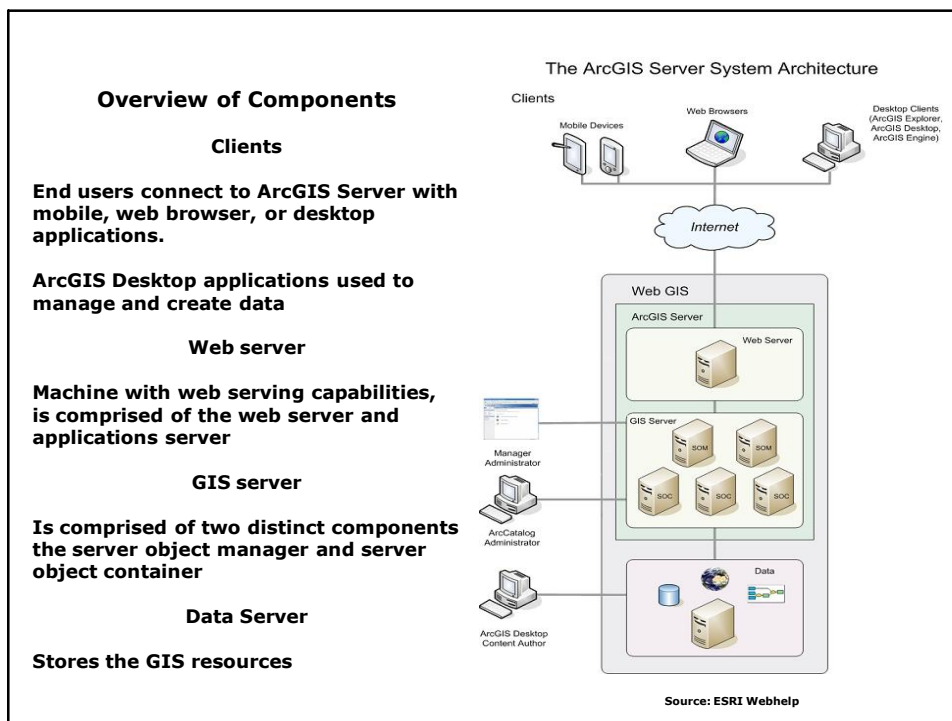
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**Joe Chan**

## **ArcGIS Server Architecture Overview**

- **Based on the ArcObjects framework, a common set of software components used in ESRI products**
- **Is a distributed system, that uses several components to host, manage, and process GIS or Web services**
- **Can be deployed on a single or multiple machines**
- **Internet / LAN/ WAN access**
- **Multiplatform support – Windows and UNIX**

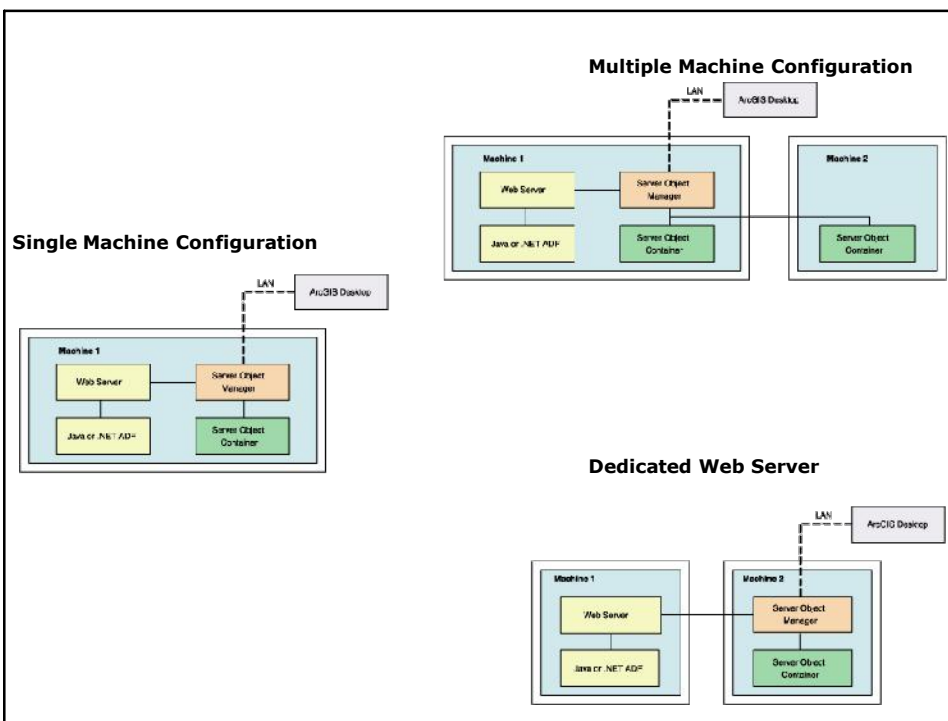


## Server Object Manager (SOM)

- The SOM is a Windows service or UNIX daemon
- Manages requests to SOC's
- Handles load distribution among available SOC's
- Error logging

## Server Object Container (SOC)

- The SOC can be one or more machines
- Each SOC machine can host multiple processes
- Data in geodatabases or other file-based data is accessible by the SOC
- Receives incoming requests from the SOM
- The SOC will process this request
- Returns the output result back to the SOM which in turn sends the output to the client



## References

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**ESRI. *ArcGIS Server Administrator and Developer Guide.***

**ESRI. ArcGIS Server 9.3 Webhelp. *Components of an ArcGIS Server System.***  
**[http://webhelp.esri.com/arcgisserver/9.3/Java/components\\_of\\_server.htm#](http://webhelp.esri.com/arcgisserver/9.3/Java/components_of_server.htm#)**