



SAP J2EE Engine Cluster Architecture

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Product Management SAP AG

Duration of the eBook: 7 minutes

User Access

- SAP GUI
- Web Browser, Mobile Devices

User Interface Programming

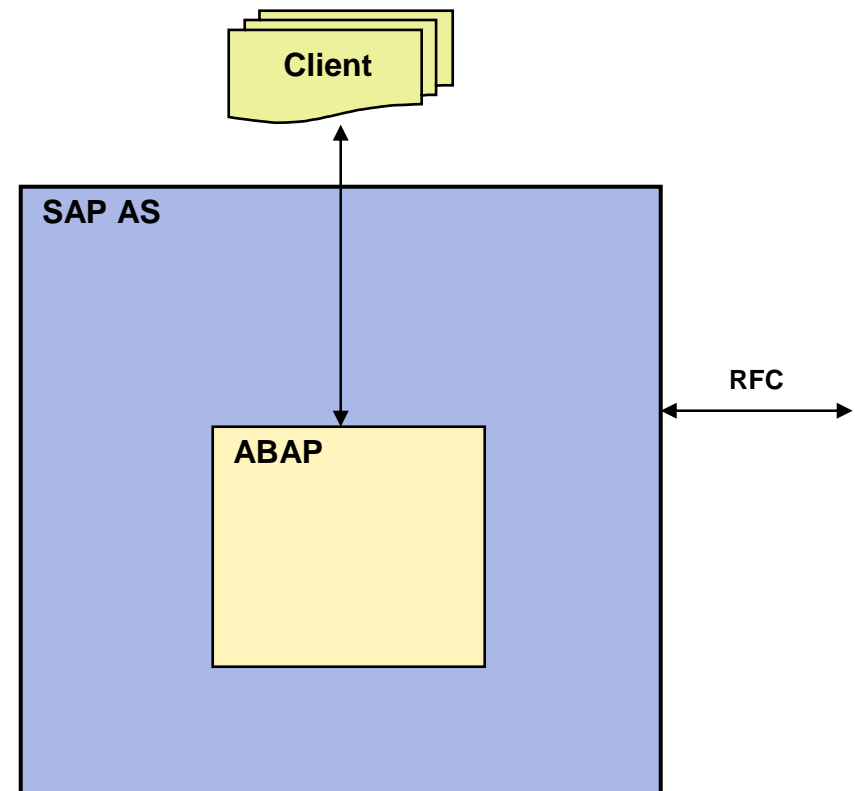
- Dynpro

Programming language

- ABAP

Connectivity

- RFC
- Access to 3rd party (connectors)



User Access

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User Interface Programming

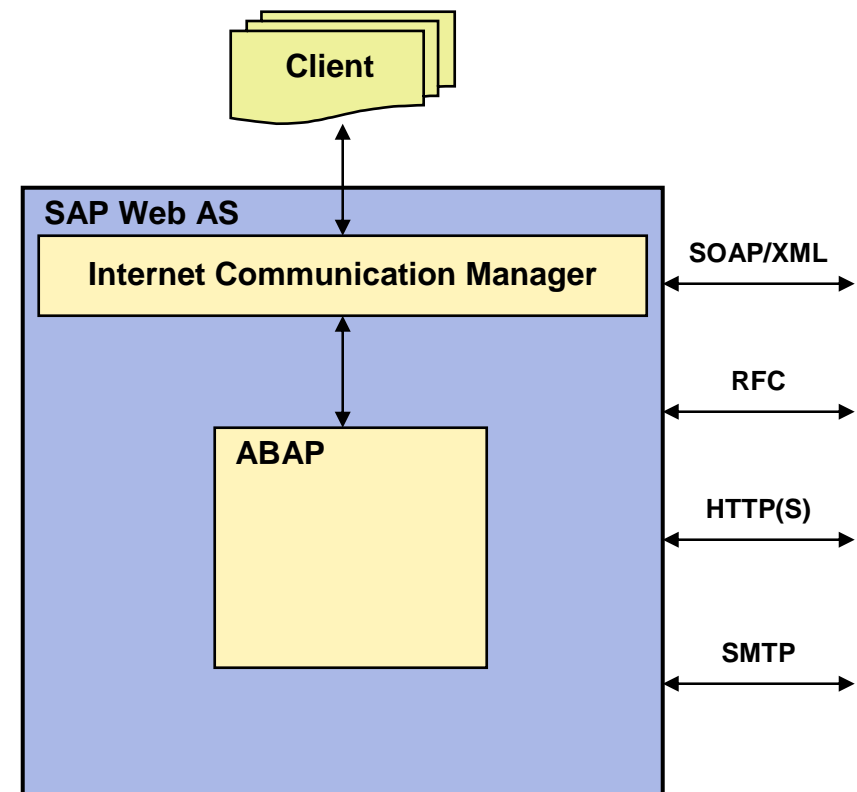
- Dynpro
- **BSP (Business Server Pages)**

Programming language

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Connectivity

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- **HTTP(S), SMTP, SOAP/XML**



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User Interface Programming

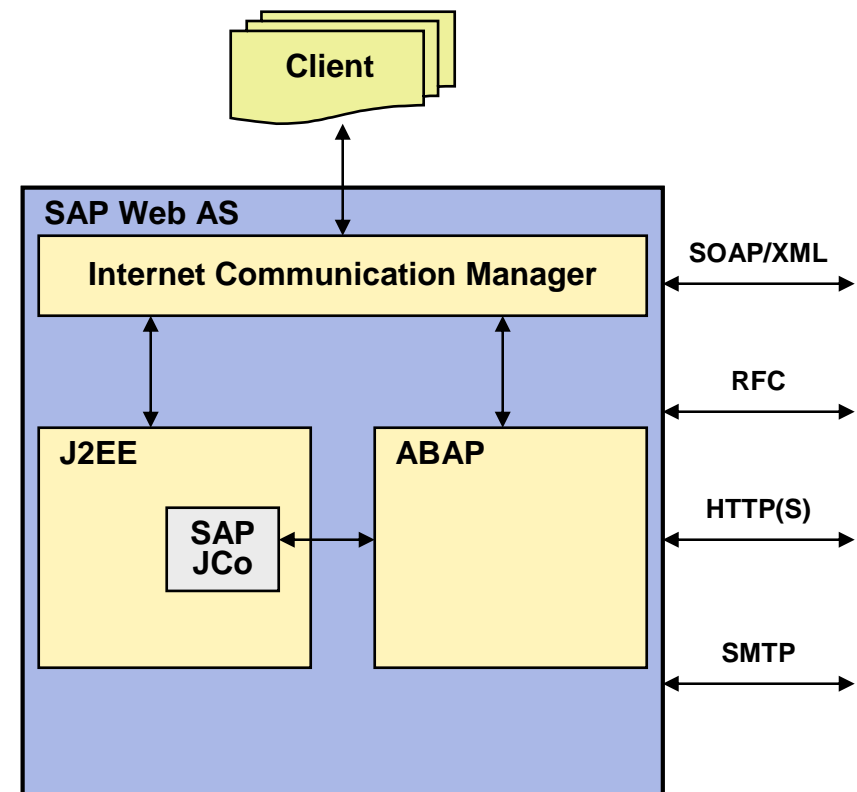
- Dynpro
- BSP (Business Server Pages)
- JSP (Java Server Pages)

Programming language

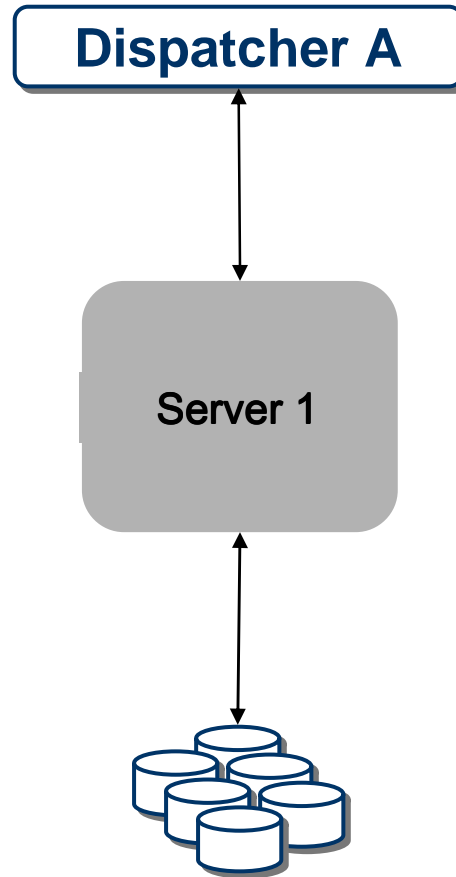
- ABAP
- Java
- SAP Java Connector

Connectivity

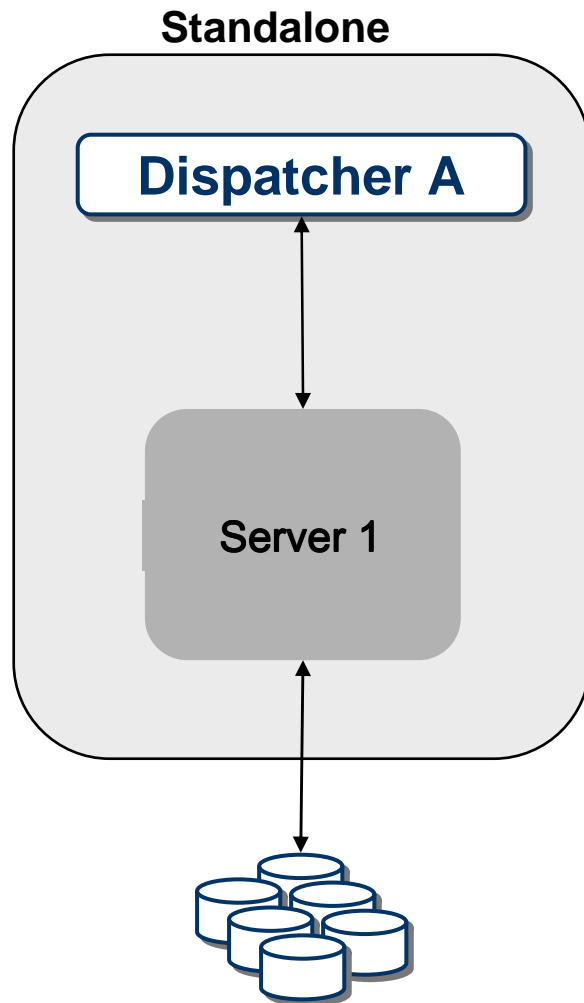
- fastRFC
- Access to 3rd party (connectors)
- HTTP(S), SMTP, SOAP/XML



Minimal Configuration of J2EE Engine



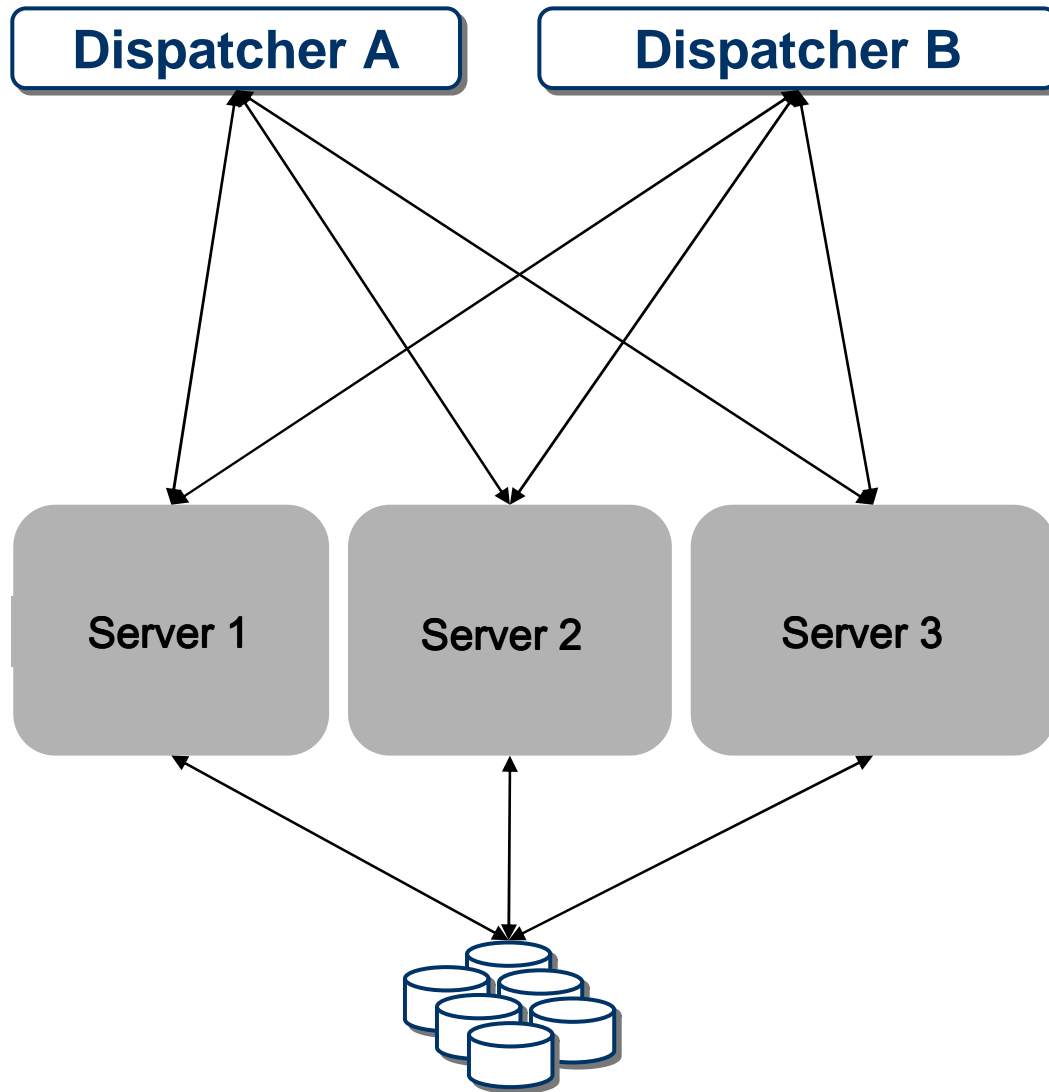
Configuration of J2EE Engine Development



■ Standalone Version

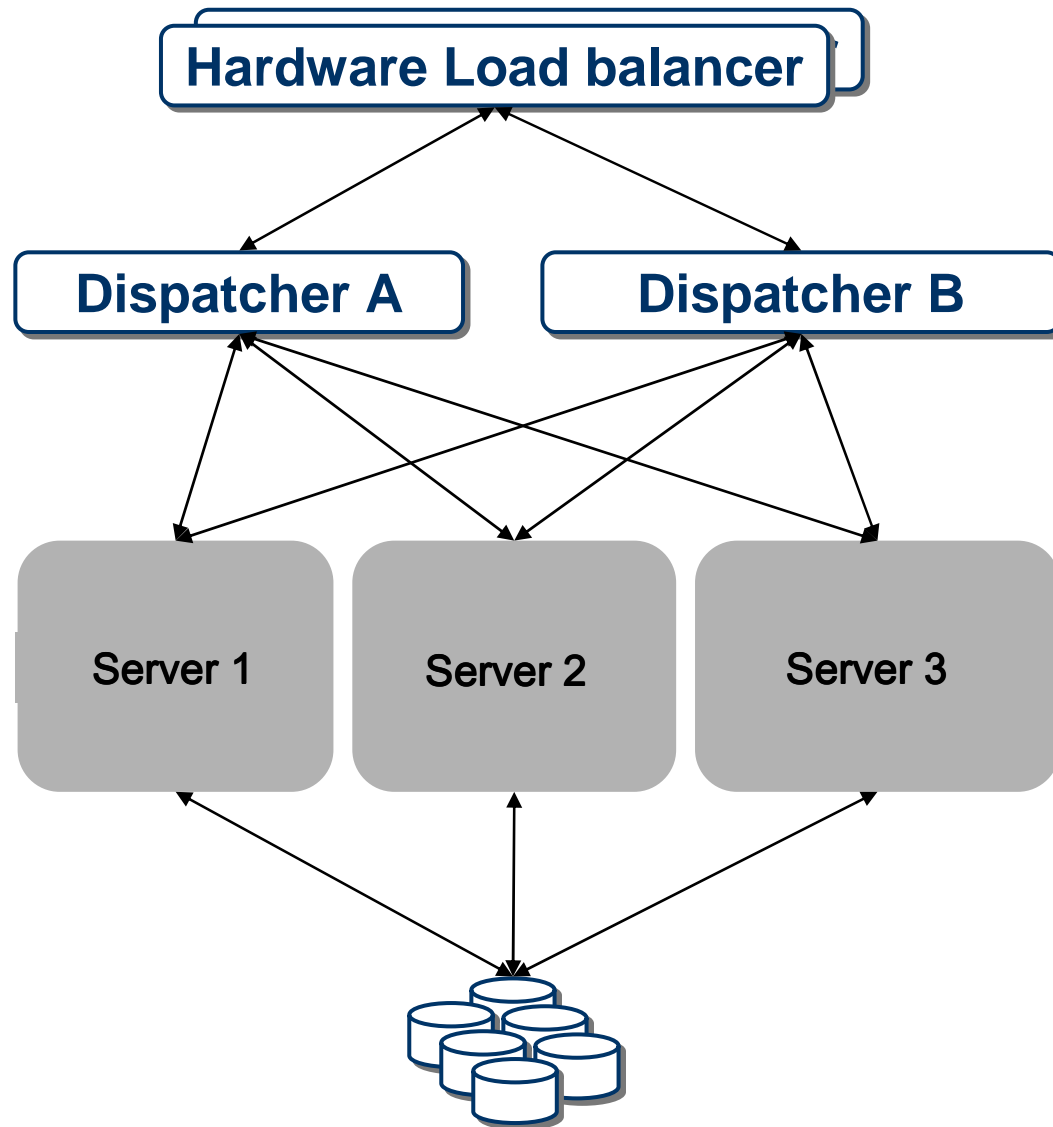
- Runs both Dispatcher and Server in one process

Cluster Architecture: What does this do?



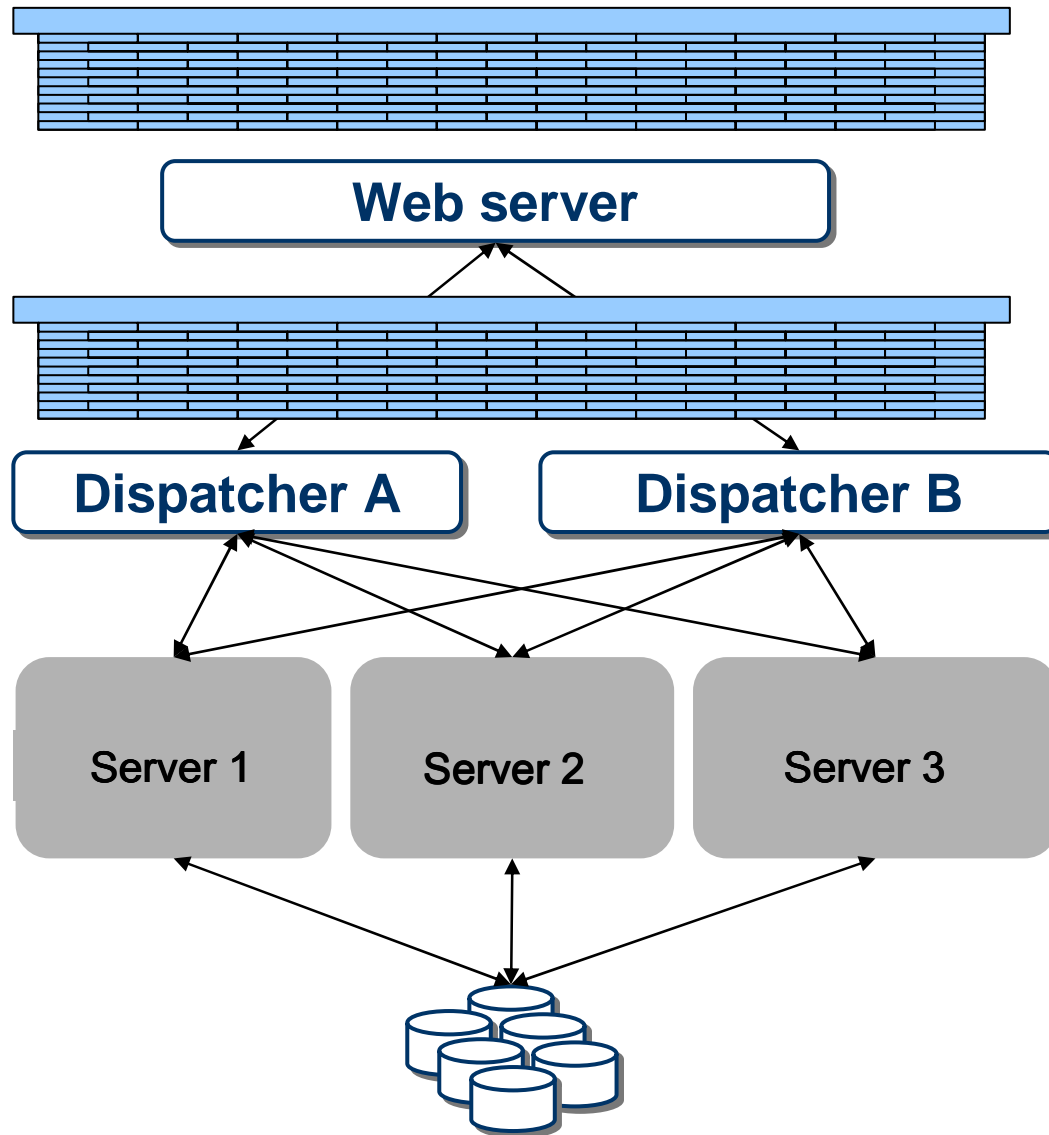
Cluster Elements are general referred to as „Nodes“

Cluster Architecture: Real load balancing



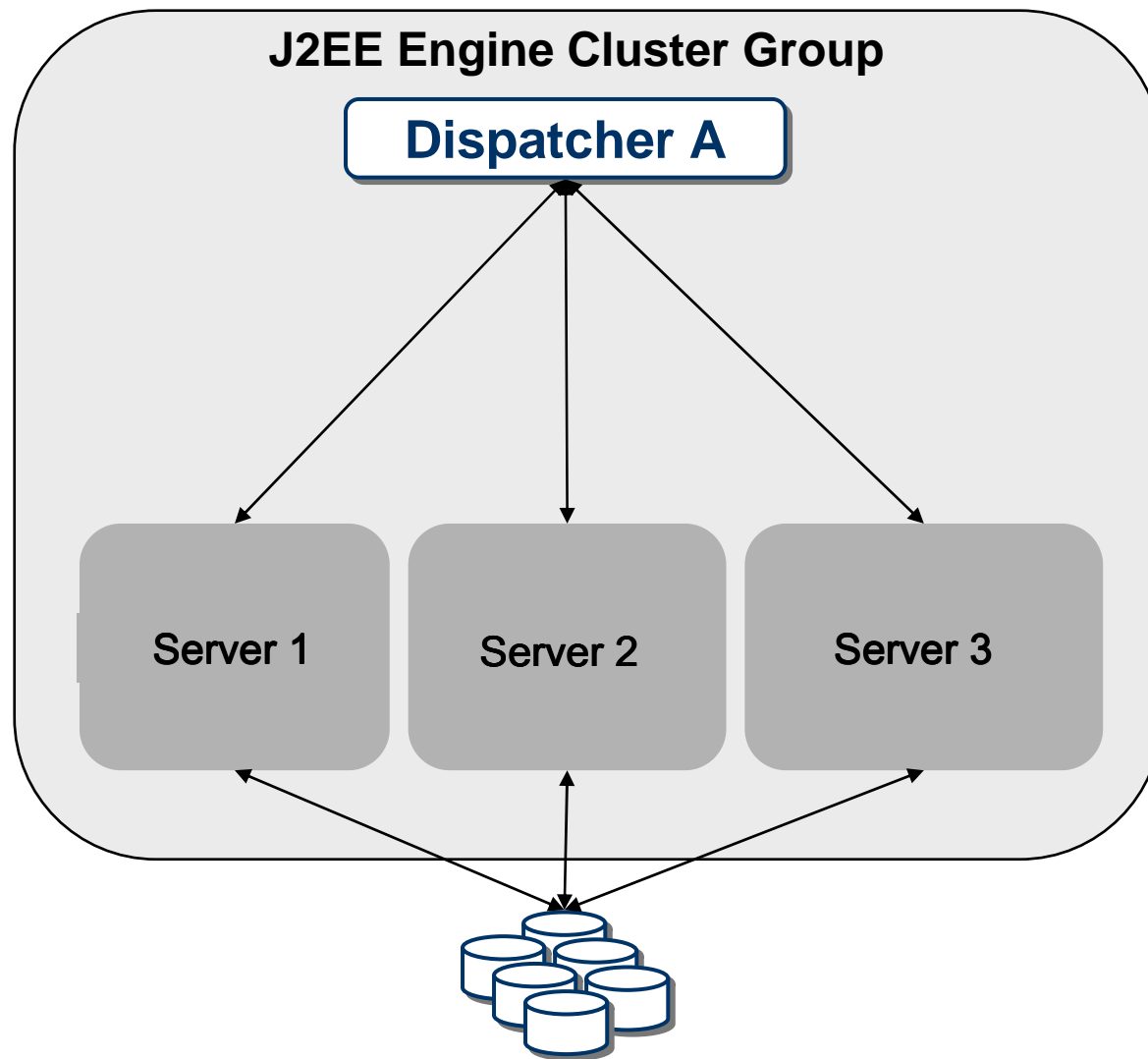
- Introduction of the hardware load balancer
 - Load balancing with different entries
 - Two applications go into different dispatchers, while both are installed on all servers.
- BUT!
 - What happens in case of SSL?

Cluster Architecture: Using additional web server



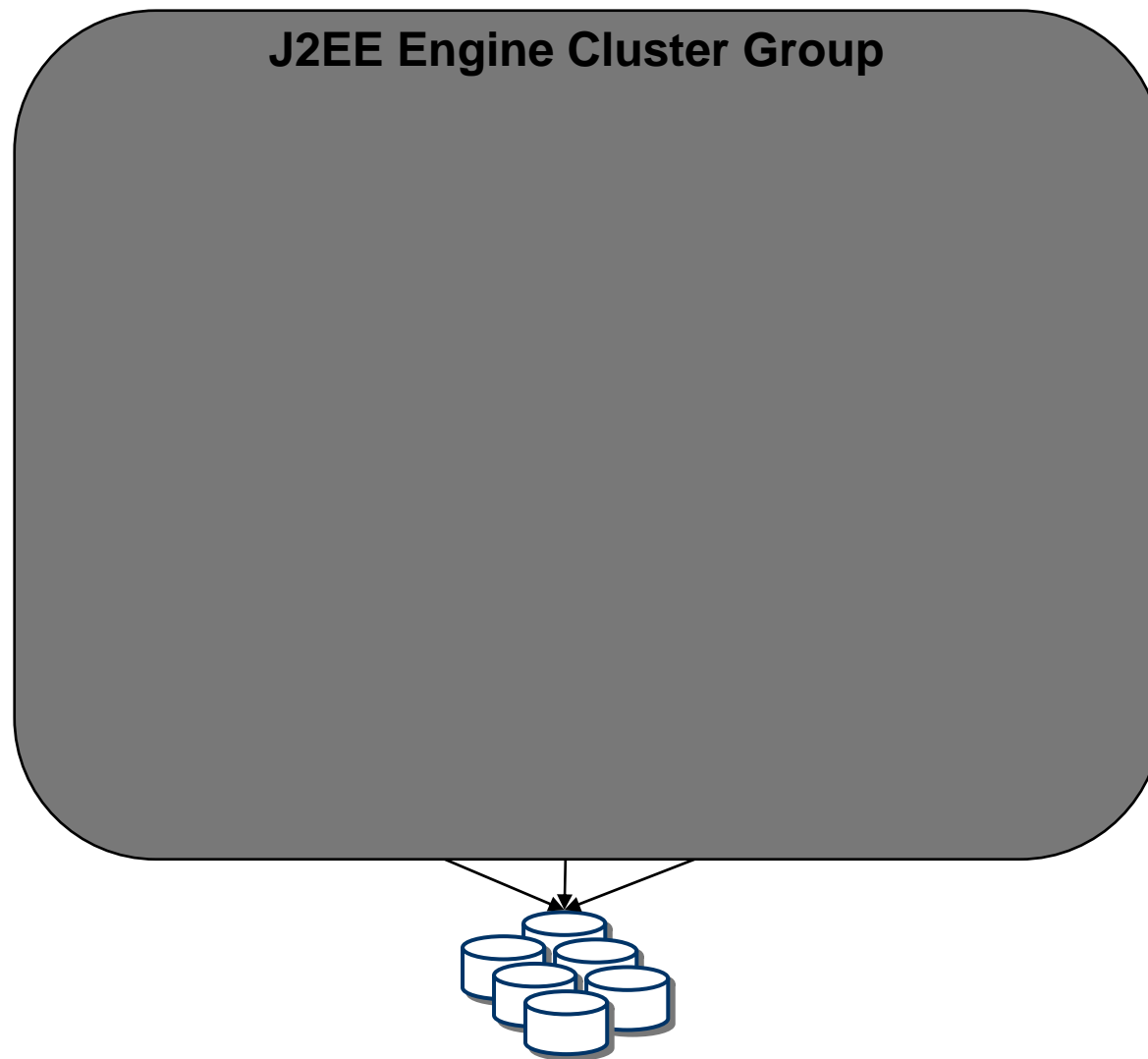
- **How to use another web server**
 - Plugins available
 - Apache
 - IIS
- **Why to do it?**
 - Maintenance of old systems
 - Faster delivery of static content

Cluster Architecture: Web Application Server



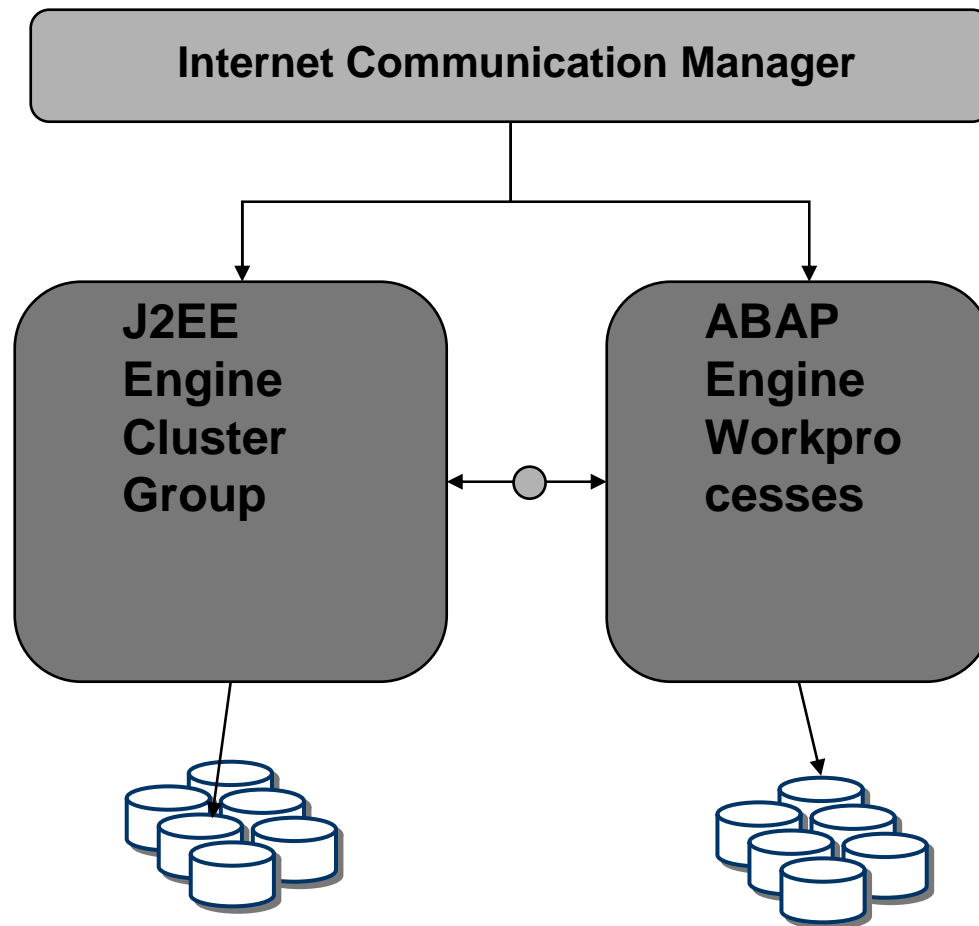
In a Web Application Server Installation the J2EE Engine installs a Java cluster as cluster group on one server.

Cluster Architecture: Web Application Server



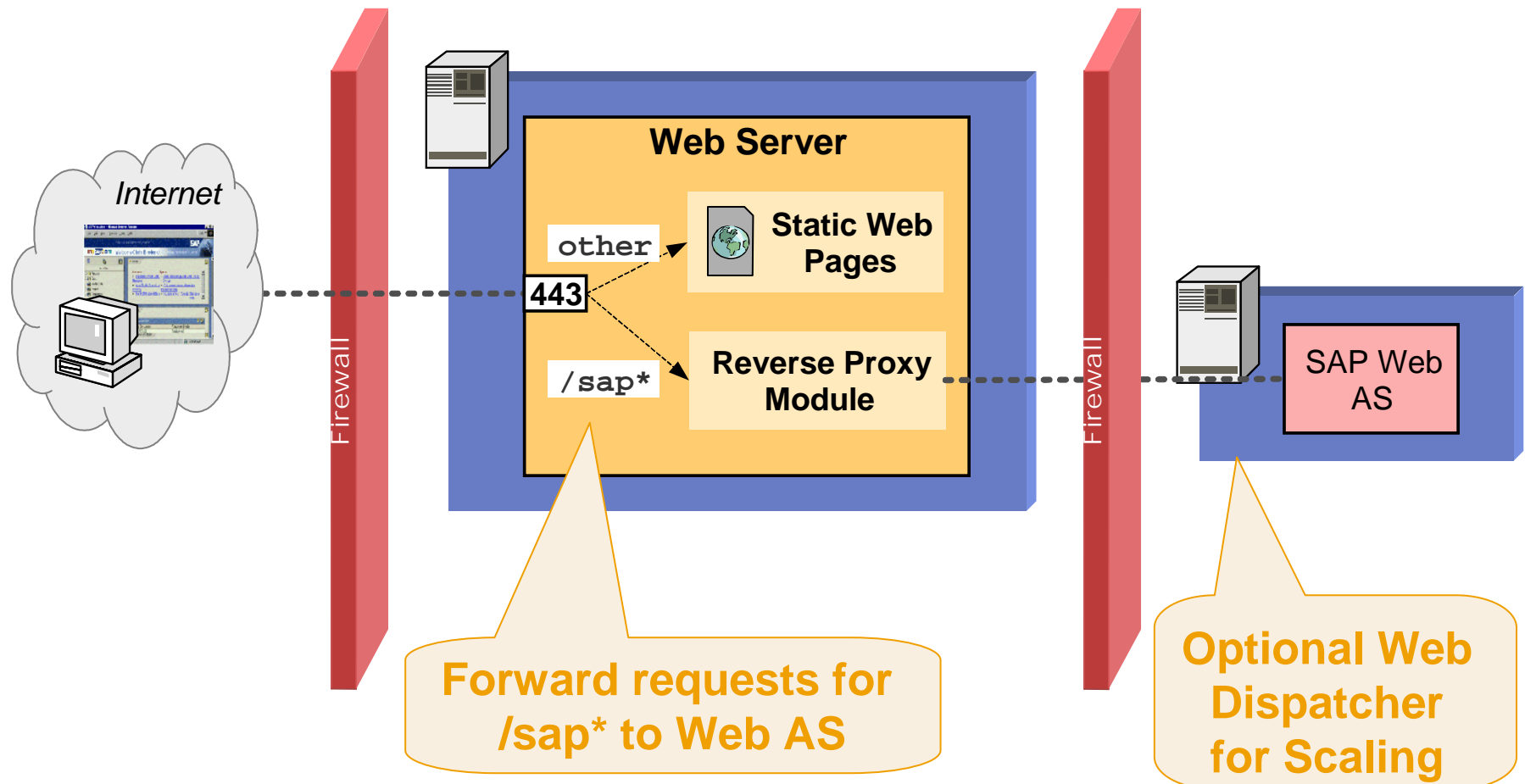
**This becomes the J2EE
part of a complete SAP
Web Application Server**

Cluster Architecture: Web Application Server



Integration Into Web Server / Reverse Proxy

Integrate SAP Web AS services into existing Web site



Beware of /sap(=JGF57FT)/... URL redirection

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