

Apparo Fast Edit

System architecture

IBM Cognos Analytics



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1 Overview about the Apparo Fast Edit architecture

1.1 Web server

Following web servers can be used:

- Microsoft Internet Information Server (IIS)
- Apache 2.4 (Linux and Windows)

The web servers are enhanced by an ISAPI module/mod_proxy and a virtual directory “apparo” that takes all Fast Edit requests and deliver them to the Apparo Application servers.

1.2 Apparo Gateway

The Apparo Gateway takes all http/https-requests starting with /apparo/ and move them to the Apparo Application servers using the communication port 9800 (default).

With this functionality load balancing and better availability is possible. If an Apparo Application server is crashing then the Apparo Gateway is ignoring this server. If an application server is running again then this is noticed automatically by the Gateway.

The Apparo Gateway must be installed on all used web servers like the Cognos Gateway.

1.3 Apparo Application Server

The Apparo Application server is working with the requests and delivers the answer back to the Apparo Gateway.

An Apparo Application server can be installed on a single host or together with an Apparo Gateway.

It's possible to install many application servers on one host too but then the ports (start port and communication port) must be different for each application server.

1.4 Apparo Repository

The Repository stores all definitions about clients, Business Cases, database connections and so on.

Each Apparo Application server must use a repository. If the application servers are working in a cluster then all servers must use the same repository.

2 Security

Following firewall architecture is possible:

----- Firewall 1 ----- open: 80/443 only -----

Web server
Apparo Gateway

----- Firewall 2 ----- open: 9800 only -----

Apparo Application server

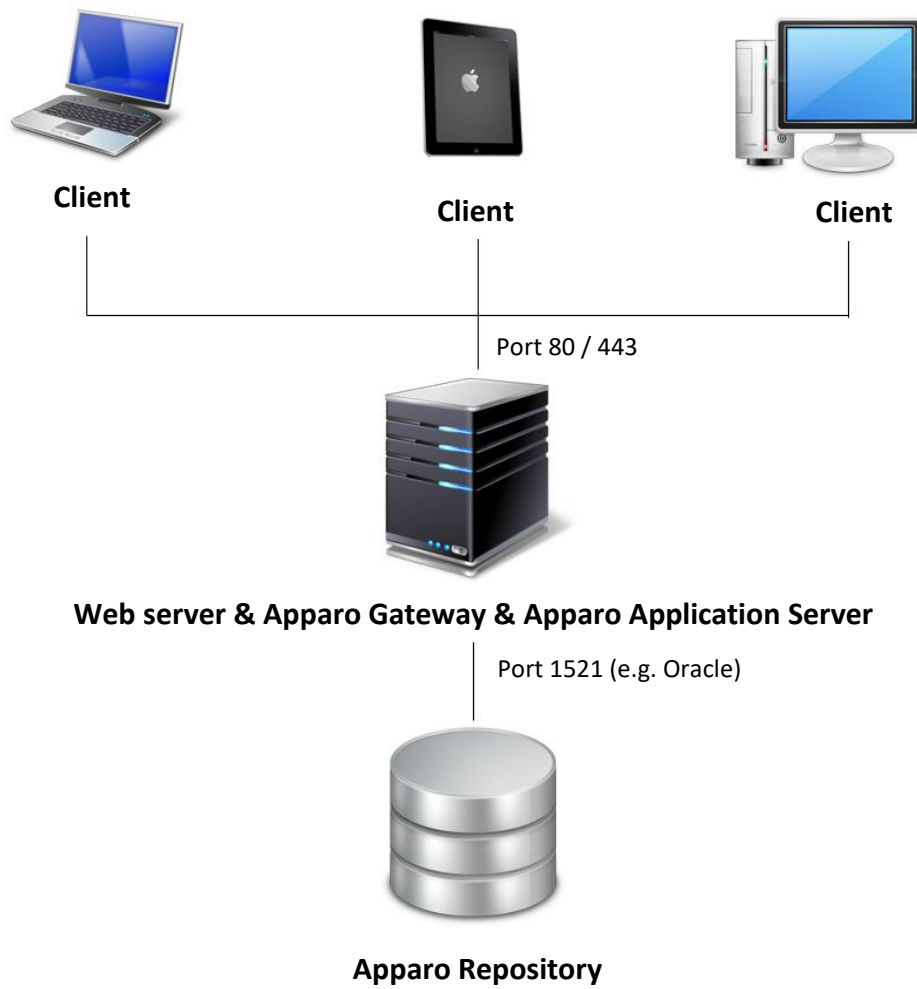
----- Firewall 3 ----- open: 1521 only (if Oracle) -----

Databases including Apparo Repository

3 Examples of system architectures

3.1 Example for a Single Instance

The complete installation is stored on one host only like IBM Cognos Analytics.



3.2 Example for a n-tier multi instance

