

Generic Use Case: Hot updating the configuration of an API Extension

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| Title (Goal) | As a repository manager, I want to change which web service implements an API extension by pointing to a new address |
| Primary Actor | Repository Manager |
| Scope | |
| Level | |
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| Story (A paragraph or two describing what happens) | My institution created a web service and configured the API Extension Architecture to direct requests from <code>/path/to/object/viz:nifty</code> to it. The implementing web service is running on one of our backend servers, at http://internal-net-12.example.org:8080/nifty-viz . We need to do some server maintenance on that machine, so we've put a new copy of the webapp up at http://internal-net-08.example.org/nifty-viz . We'd like to configure the API Extension architecture to direct requests to the new webapp instance, so we can take the old one down. Since this is a production system with lots of users, we do not want to have to re-start Fedora or the API Extension architecture. We would like to make a simple configuration change which causes the API Extension Architecture to immediately start sending requests to the new service instead of the old. |

API Extension Architecture's role:

- Route user's http requests from `viz:nifty` to a backend web service, and return its response
- Provide a means for the repository manager to specify the address of the backend web service
- Provide the ability to change the configuration of `viz:nifty`, and immediately enact those changes.

Web application's role:

- Respond to requests directed from `viz:nifty`

Repository manager's role:

- Deploy web applications
- Specify the address of web application as configuration in the API Extension Architecture
- Specify a new address of the web application to the API Extension Architecture by configuration in the API Extension Architecture

Fedora's role:

- Respond to requests from the web application, if any.