

CENG 492

Progress Report

Team Prime'

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Doğın Poyraz

Yurdakul Göksu Orhun

Onur Cem Sırlı

Ogun:

Solved how to reconfigure load balancer without having to disable nginx.

- Firstly process ID of nginx is parsed.
- kill -HUP signal is sent to nginx to force it to read modified configuration file.
- Written in PHP as to integrate easily with the system.

Doğın:

Worked on multiple stream redirection.

- On each web server, we already create the index.html for a stream. But we can create only html in the main folder.
- In the new approach, we create index.html of each stream in its own folder under main folder. Namely, in the main folder of a web server, we will have a folder including index.html for the particular stream.
- After creating these folders and html files, in the nginx configuration file, new backend servers will be added with every add stream command. Moreover, these backend servers will not redirect to the server ip; instead they will redirect to the particular folder of the relevant stream and its own html will be run.
- In the nginx.conf, instead of proxy_pass http://backend1/ we will write proxy_pass http://backend1/streamname/ and streamname folder has its own index.html.

Partially implemented these features.

Göksu & Onur Cem:

Worked on multiple stream creation and removal. Modified our previously described method such that:

- Process ID of each stream is stored on “streams.log” (parsing from output of pslist vlc right after creation.)
- Media server and web servers have different .log files as they can host different streams and have different process ID's
- Modified media server and web server scripts so that .bat files and folders which are created for each stream are deleted upon stream removal.

Improved the user interface of the media server.

- Solved unique user problem in database.
- New design template is employed to give the interface a more stylish look.

Implemented rest of Doğan's described method above except modifying load balancer configuration file.

Researched virtual box's xml configuration file to find a way to simulate multiple web servers on the same machine, this way we will be able to test with more web servers during next phases.

Next Week:

- In case of stream add failure there will be duplicate process ID's. This case will be handled.
- Web servers will be tested with new scripts.
- Ogun and Doğan's work will be merged (i.e. load balancer modification using PHP code will be completed)