Jobs relations

A root server job launches a new acceptor job. The acceptor job has parent attachment so cancelling root server job causes acceptor to die while cancelling acceptor job lets root job to be alive. So one can cancel an acceptor job and join on the corresponding root job to wait for completeion.

An acceptor job launches a new http pipeline job for every incoming connection. However it is important that pipeline jobs have server root job as parent instead of acceptor job. So if one cancels an acceptor then no new connections could be established but requests already running could continue processing unless server root job is cancelled as well.

The other important thing is that http pipline job should not propagate failures upstream otherwise any client's network failure may cause server cancellation and full server outage.
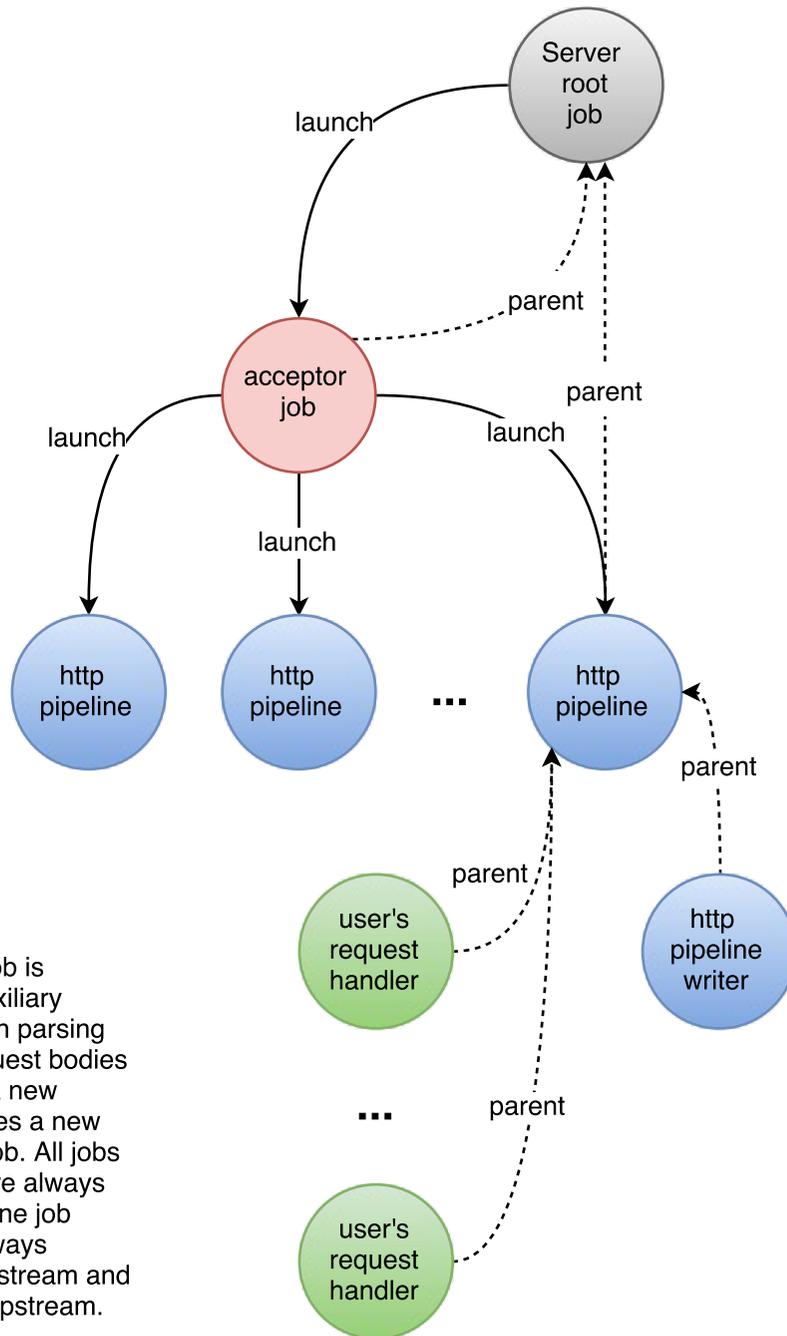
Pipeline

An http pipeline job is launching one auxiliary writer job and then parsing requests and request bodies and once it gets a new request, it launches a new request handler job. All jobs that it launches are always attached so pipeline job cancellation is always propagated downstream and children failures upstream.