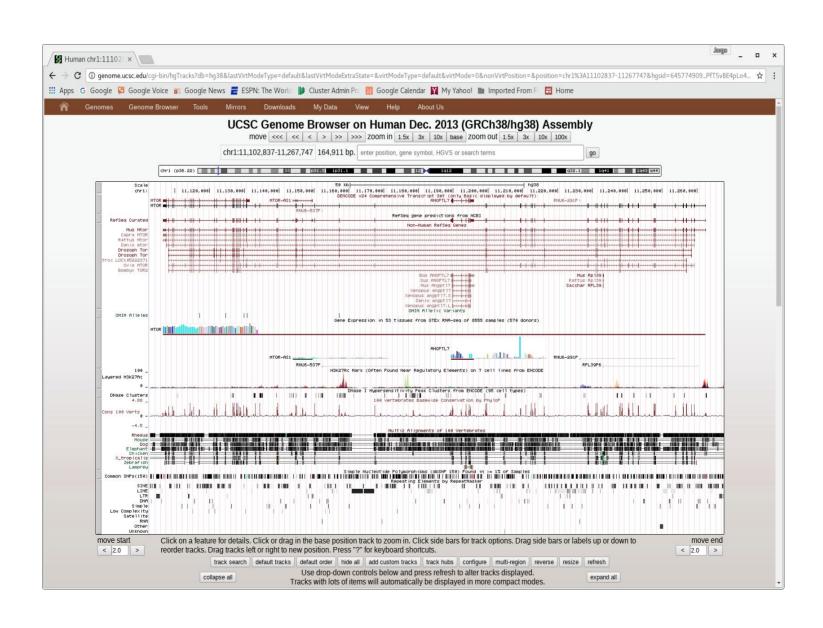
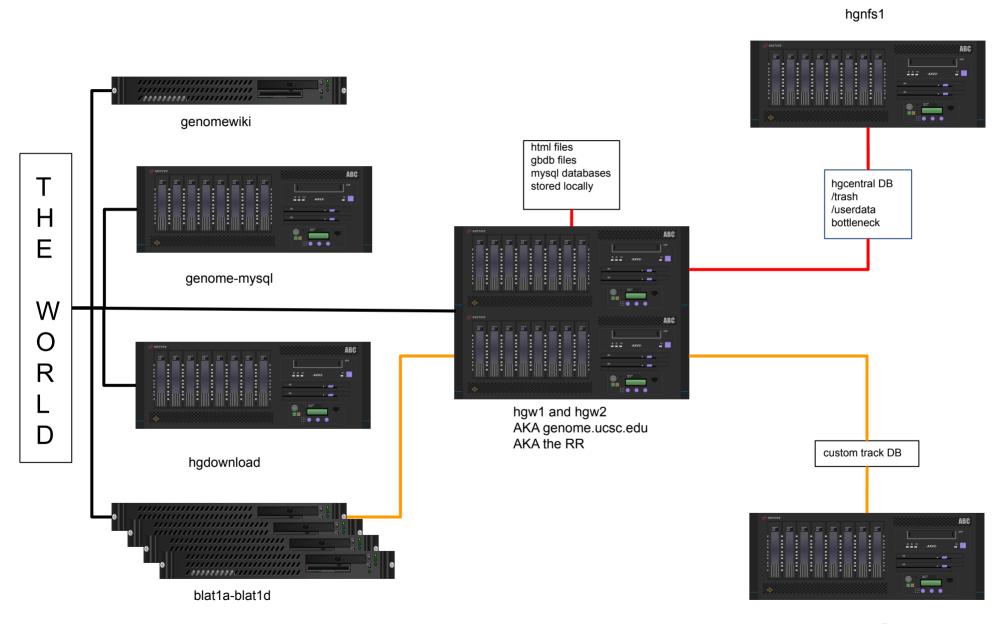
THE GENOME BROWSER – UNDER THE HOOD

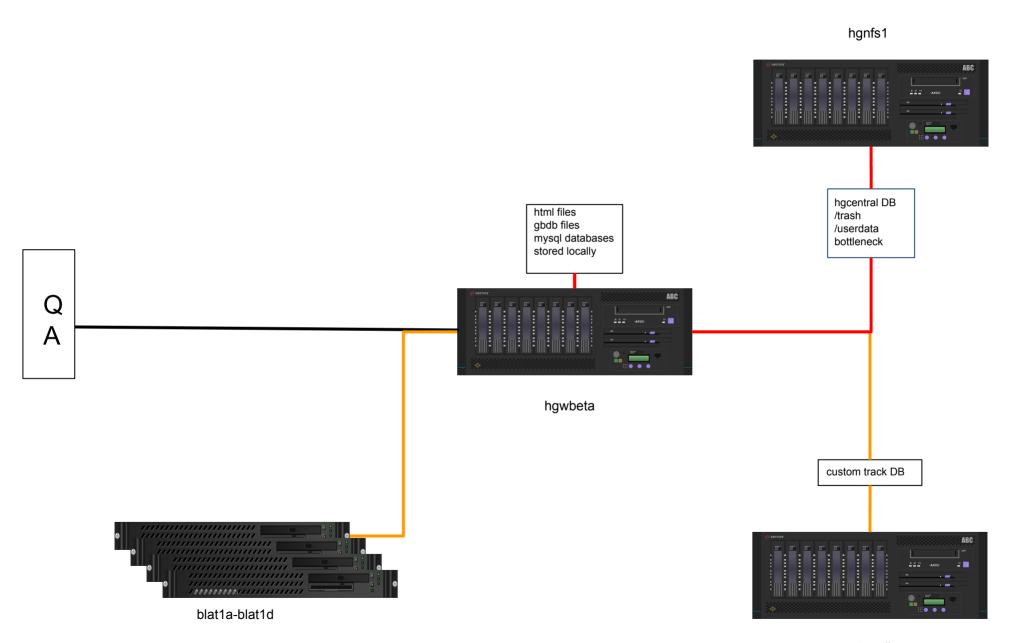


GENOME BROWSER DEPENDENCIES



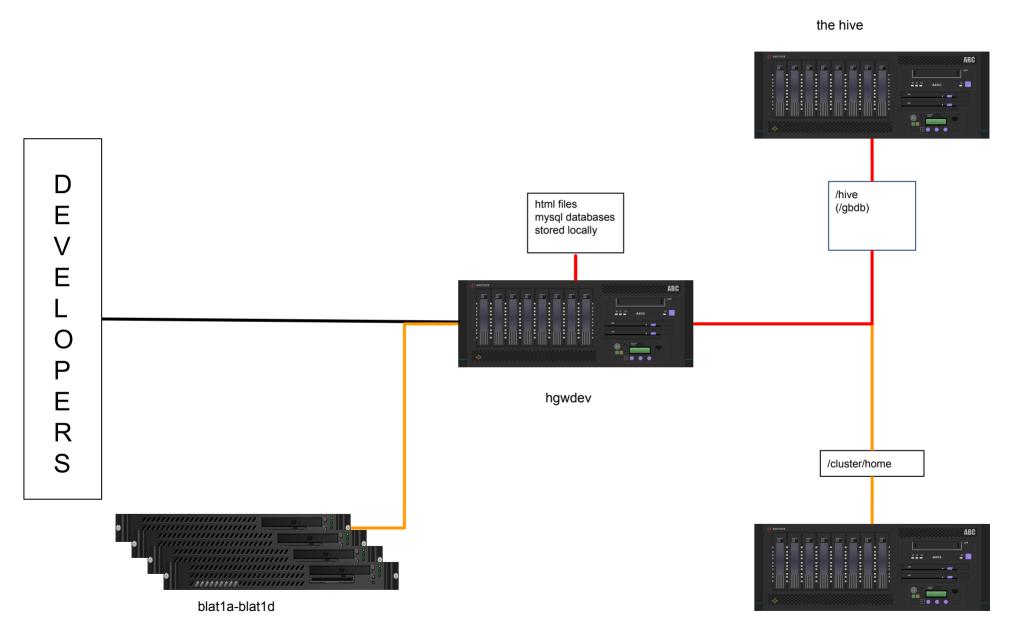
customdb

BETA TESTING DEPENDENCIES



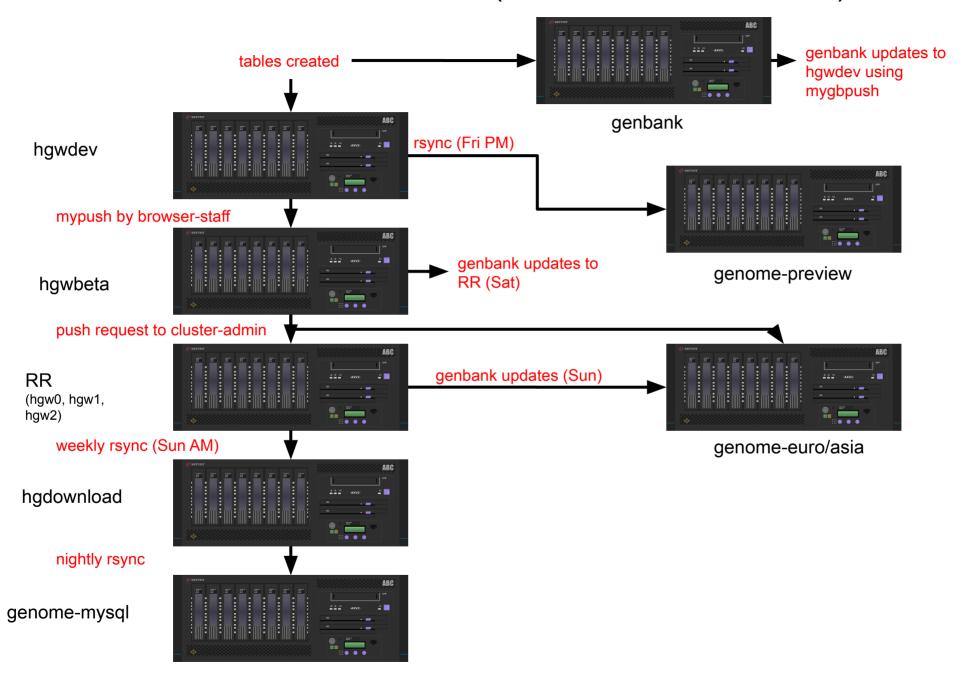
customdb

BROWSER DEVELOPMENT DEPENDENCIES

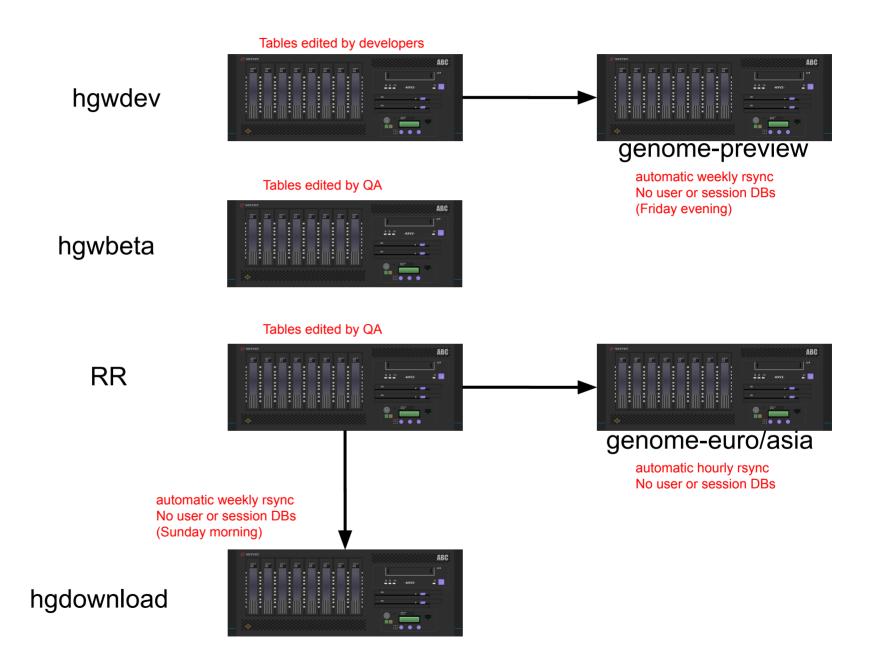


hgwhome

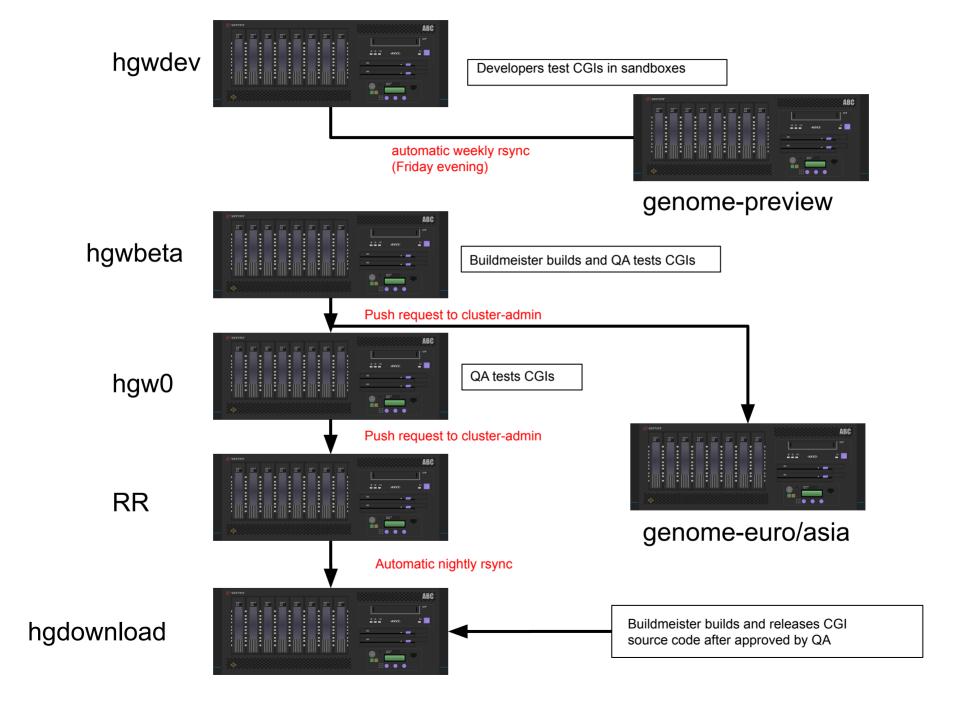
MYSQL DATA FLOW (EXCEPT HGCENTRAL)



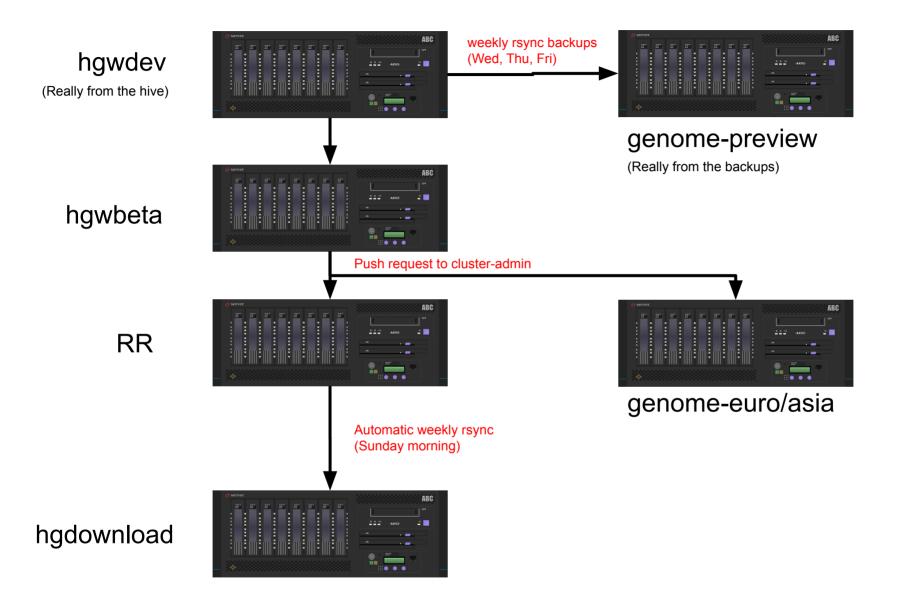
MYSQL HGCENTRAL FLOW



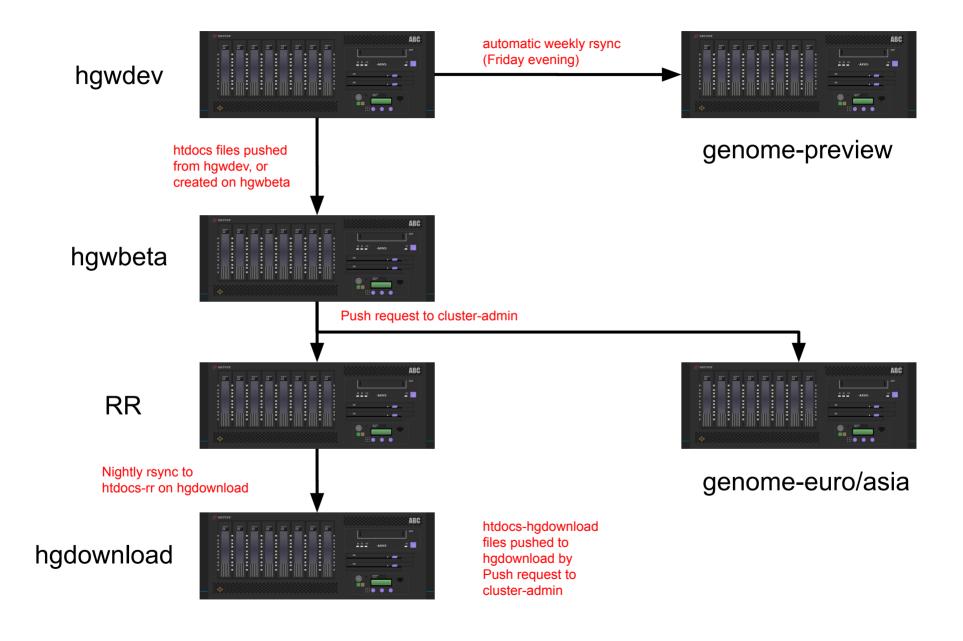
CGI DATA FLOW



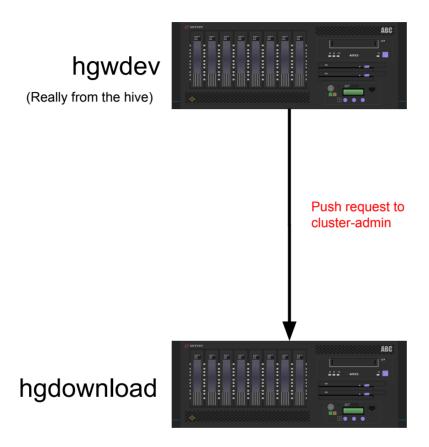
GBDB DATA FLOW



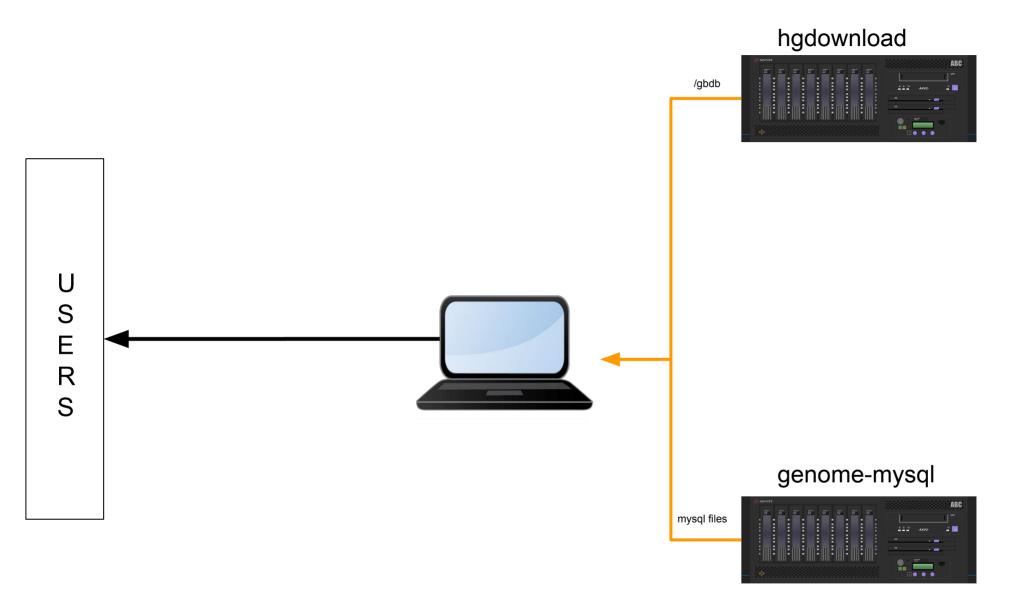
STATIC DOCS DATA FLOW



DOWNLOAD DATA FLOW



GBIB DEPENDENCIES



BACKUPS

AREA	APPROXIMATE SIZE	BACKUP FREQUENCY
Home directories	A few TBs	Daily (5) Weekly (3) Monthly (3)
The Hive	A few PBs	Snapshots: Daily (7), Monthly (12) Archive: Once a week.
Cirm data	Hundreds of TBs	Archive: Once a week.

Directories named tmp, temp or *nobackup will not be archived

PRODUCTION DISASTER RECOVERY

- □ Archive everything under /userdata daily
- Archive mysql data from customDataNN daily
- Make a daily dump of hubStatus table
 - Keep daily dumps for a month
 - Keep one monthly dump for each month of year
- Make a weekly dump of namedSessions table
 - Rotate through 4 weekly dumps
 - Keep 2 latest monthly dumps

IN CASE OF EMERGENCY

IF THIS FAILS	THIS MAY HELP	
hgwdev	genome-preview mirrors by Gill (Stanford) or Michael (Germany)	
hgwbeta	hgw0 (mostly) + backups	
RR	run on remaining machine, or hgw0	
hgdownload	hgdownload2	
customdb	customdb-b (live replication machine)	
genome-mysql	convert RR machine (or hgw0)	
hgnfs1	hgnfs1-b (live replication of hgcentral)	
blat	blatx (most popular blat servers)	