Google Cloud

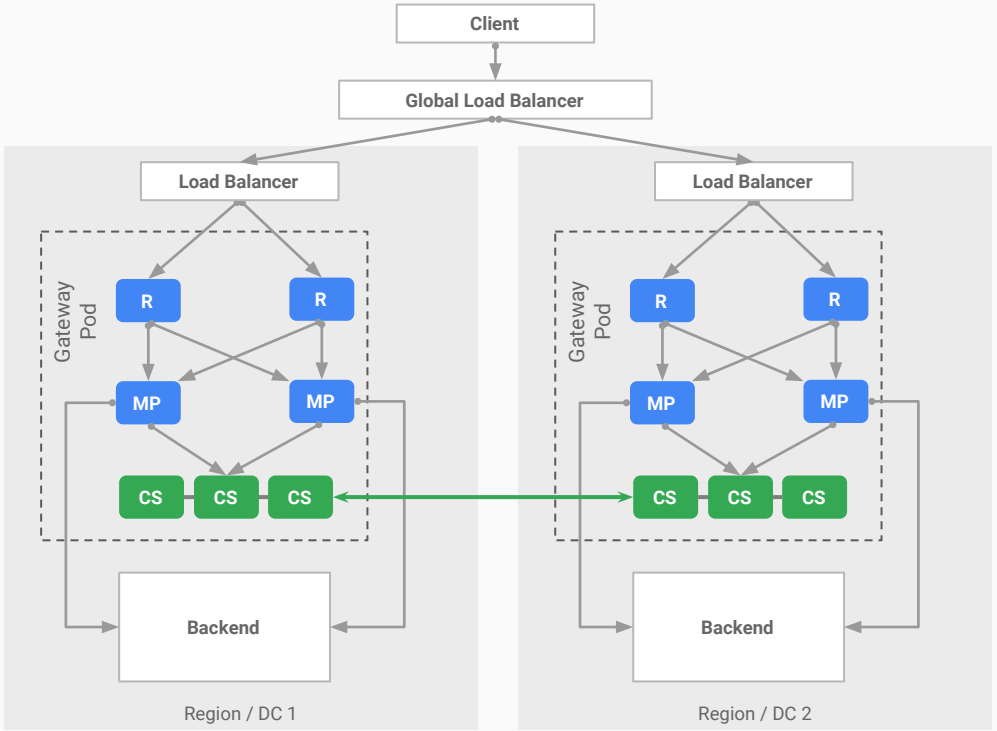
Edge Architecture

Data flow

MAY 2017

API traffic data flow

- Routers send requests to Message Processors within the same Gateway pod and serving environment associated to the virtual hosts selected.
- Message Processors perform R/W operations to Cassandra within the same pod/region.
- Communication between Message Processors and backend systems is driven by API Proxy implementations.



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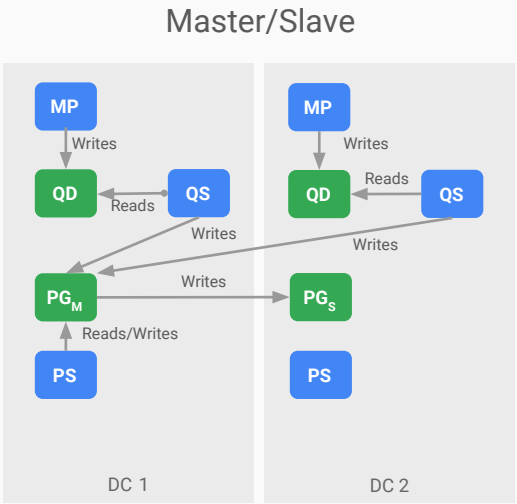
Legend:

R	Router	MS	Management Server	DP	Developer Portal	MY	MySQL	OL	Openldap	ES	Elastic Search
MP	Message Processor	PS	Postgres Server	BA	BaaS Stack	ZK	Zookeeper	PG	PostgreSQL		Server/Virtual Machine
UI	Enterprise UI	QS	Qpid/Ingest Server	BP	BaaS Portal	CS	Cassandra	QD	Apache Qpid		POD

Analytics data flow



- Analytics data is generated by Message Processor and asynchronously send to Qpid.
- Qpid Server process consumes analytics raw data from Apache Qpid and stores it on PostgreSQL.
- PostgresSQL Master/Slave.
- Postgres Server aggregates data.
- Analytics data is partitioned by Organization and Environment.

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THANK YOU