

Victoria metrics cluster architecture

Clients

vmselect fully supports PromQL and can be used as Prometheus datasource in Grafana

Stateless

vmselect fetches and merges data from vmstorage during queries

Statefull

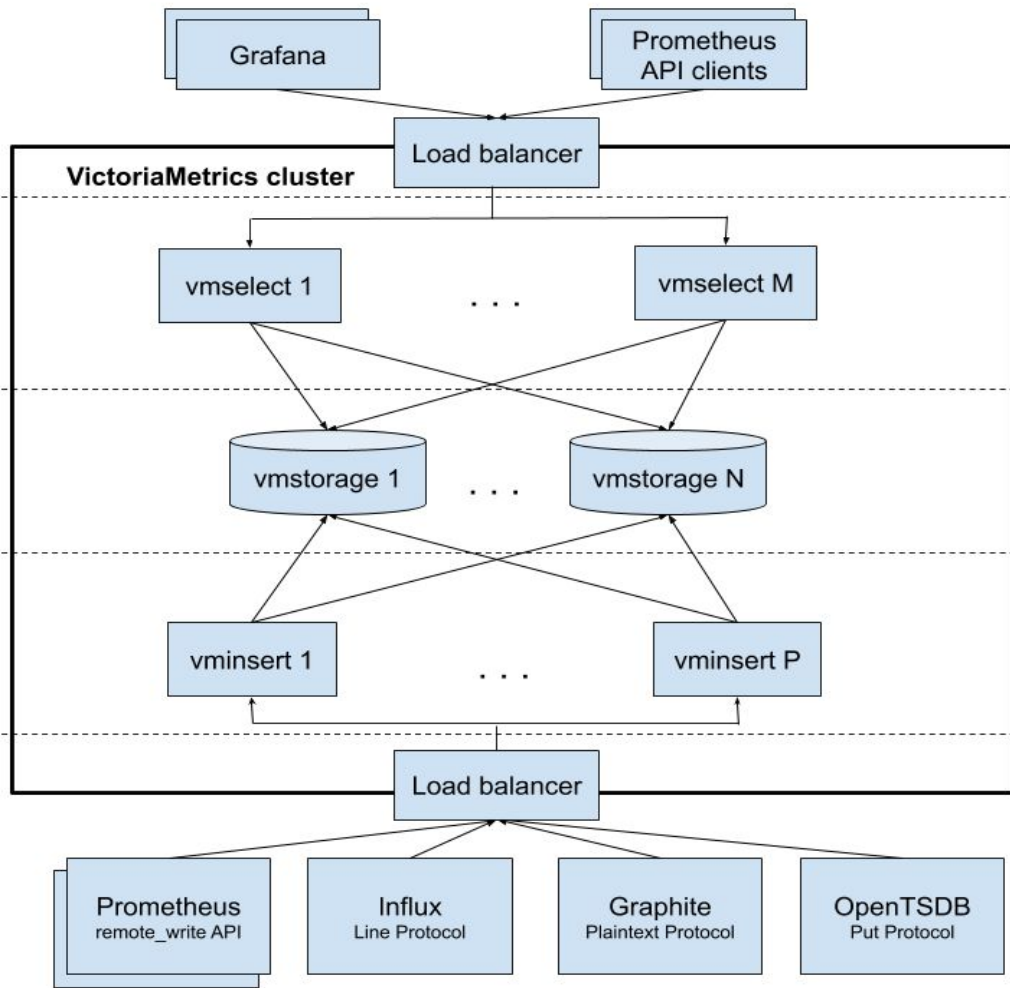
vmstorage stores time series data

Stateless

vminsert spreads time series across available vmstorage nodes

Writers

*Multiple Prometheus instances may write data to VictoriaMetrics cluster
There is support for other ingestion protocols*



VM components

- vminsert binary
- vmselect binary
- vmstorage binary

Scaling cluster

- Easy to scale up each of the components
- Not really easy to scale down vmstorage

Load balancing

- You need balancer for multiple vmselect/vminsert services
- Vminsert balances writes between vmstorages based on hash
- Cluster still works if you lose one vmstorage, but you lost part of your data

Integrating VM cluster as LTS

- Configure remote write for your prometheus
- Configure data source in grafana with prometheus type
- Default retention in VM is 1 month, so you should configure it for your case

That's all!
Thank you:)

Questions?

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