

# Zabbix: When it comes to scalability

Leonid Yulenets

# If your system is growing larger and larger...

- Add Zabbix proxies
- Add Zabbix servers and switch to multi-node architecture
- Optimize DB performance
- Add IOPS to your storage
- Reduce the number of monitoring items
- Think about NoSQL solution

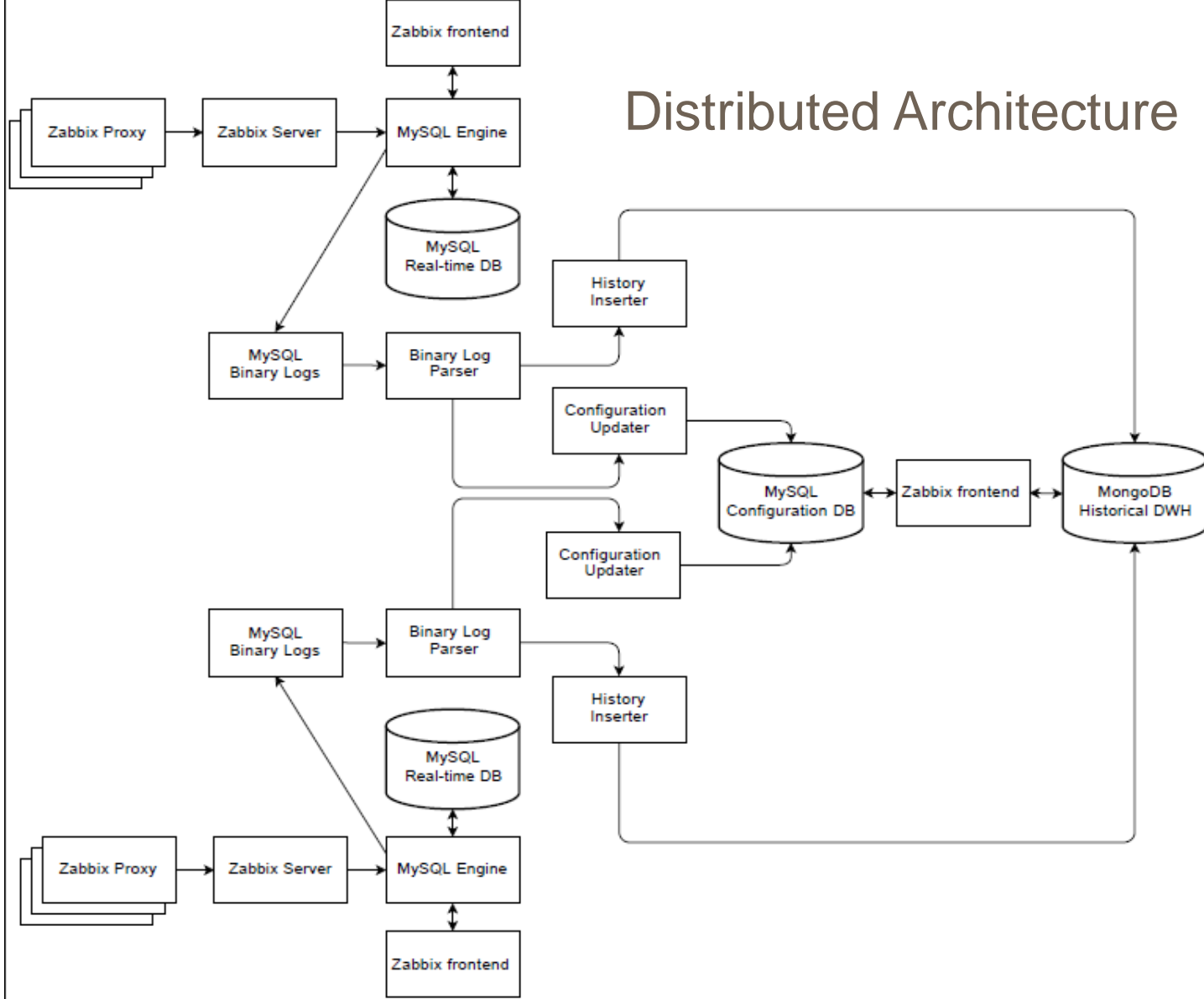
# Monitoring System General Requirements

## Requirements

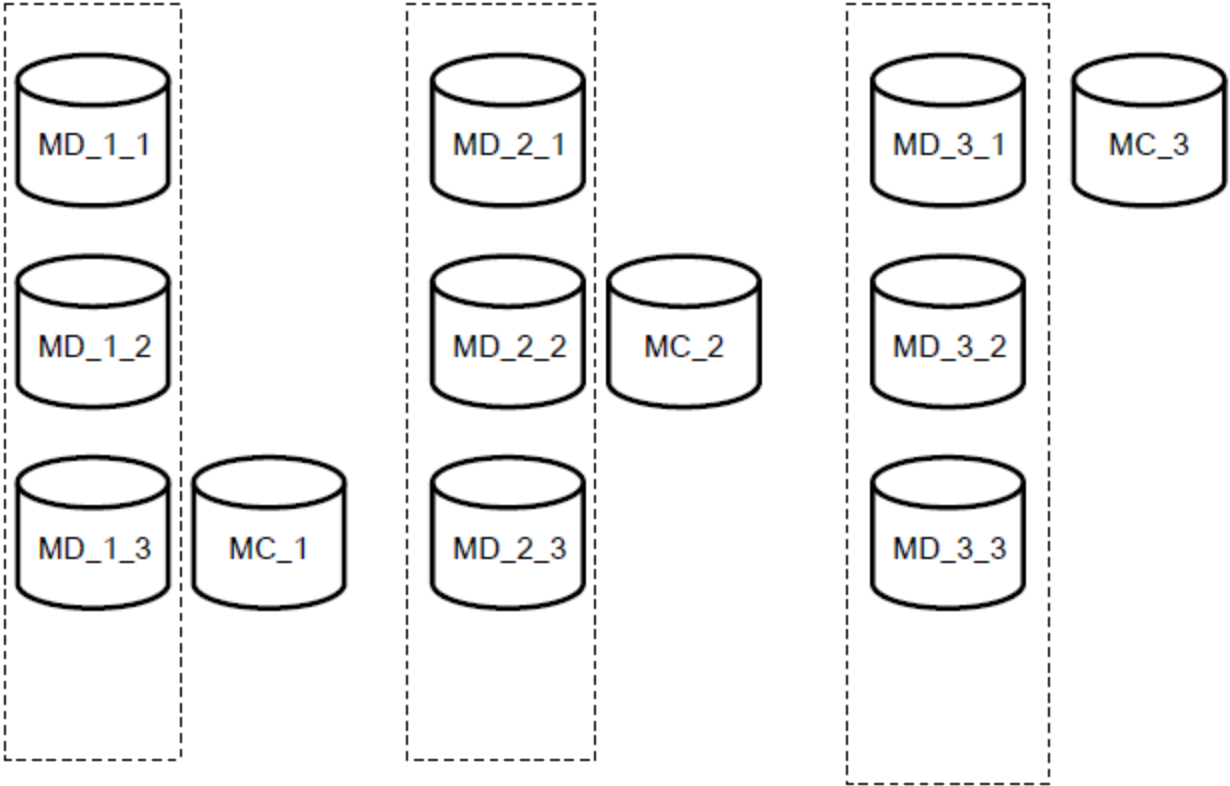
## Current State

1 No delayed delivery of monitoring data	Data delays may happen due to high load
2 High performance while accessing latest data	Some pages are processing too long
3 Scaling should not affect performance	More items affects overall performance
4 Custom reporting should not affect performance	Large reports may affect overall performance

# Distributed Architecture



# Sharding with MongoDB



# Advantages

- System becomes scalable with MongoDB
- No data delays and no gaps even with high load
- Save really long period of history data
- Reads from and writes to history may be separated

# Disadvantages

- Templates synchronization is tricky
- Custom consolidated dashboard for triggers
- Zabbix frontend needs changes for viewing historical data

Questions?



Thank you!