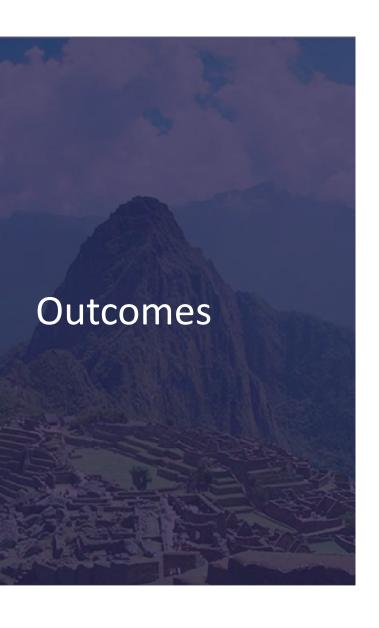
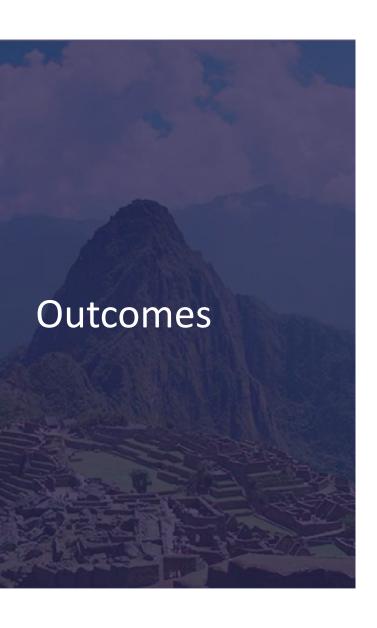


- Intro to Performance Optimization and Troubleshooting
- Intro to Percona Monitoring and Management (PMM)
- Demo



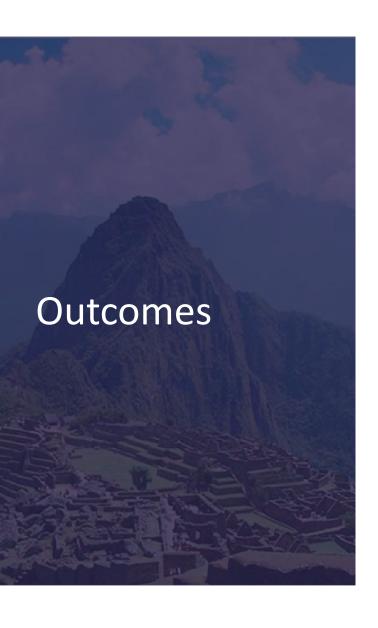


- Developer
  - I want this damn database to work



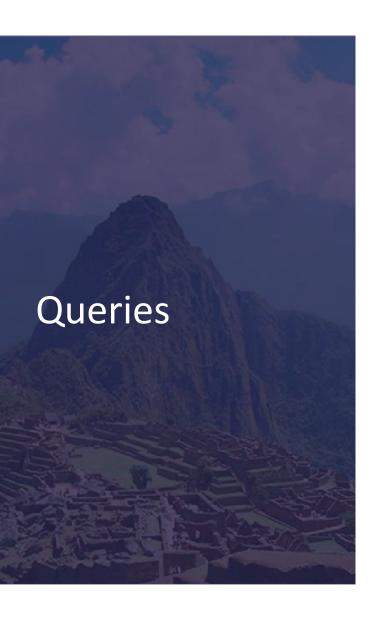
## Manager

 I want this database not to cost so much money to run

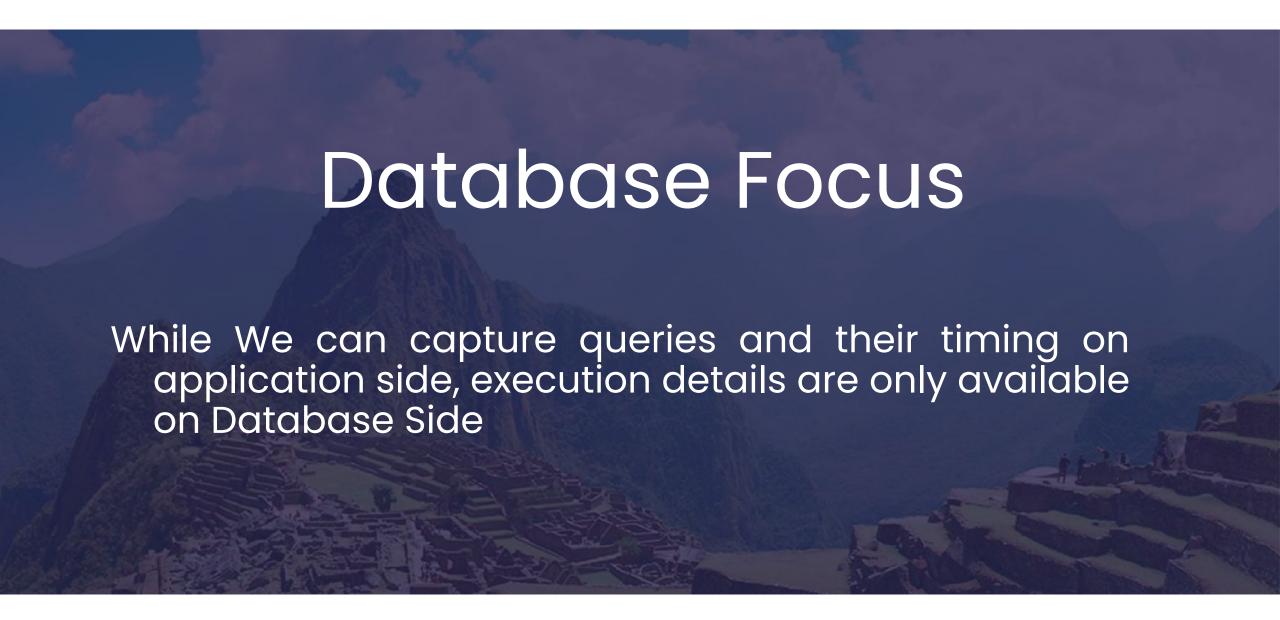


## DBA

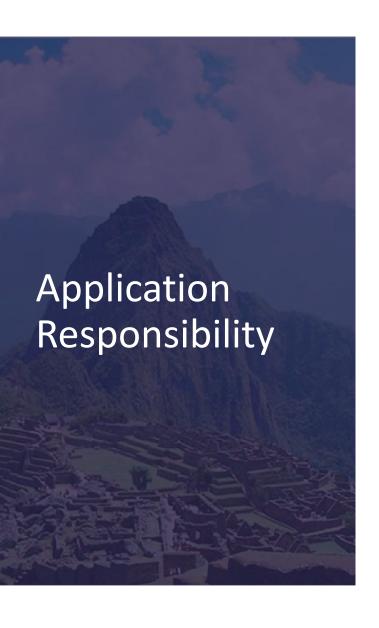
 I do not want to spend too much time and effort keeping Developer and Manager Happy



- Executed with Great Performance
- Correct Result
- Not Impacting other Applications
- Not Using Too Much Resources



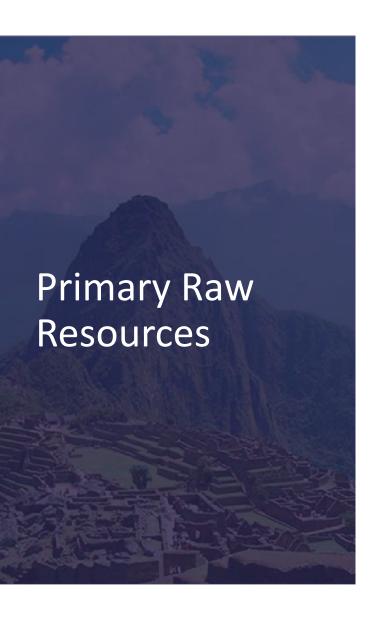




Application is responsible for volume and kinds of queries it generates



Oversubscribed resource can make even simple queries run slow



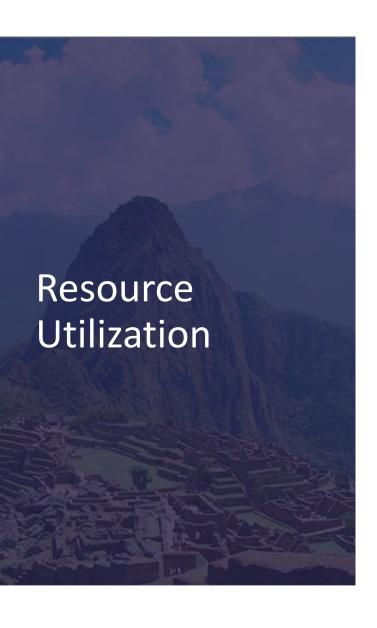






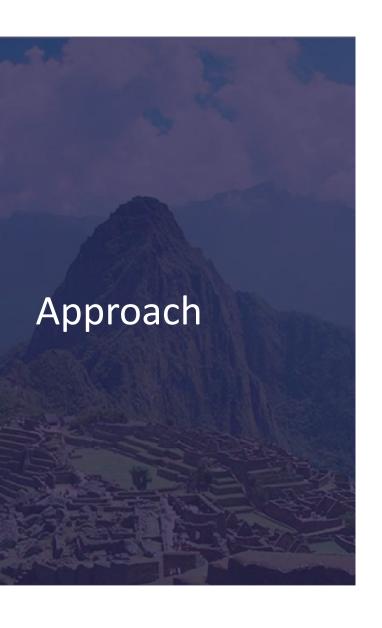


11



- Other Queries
- Database Background Activities
- Other Processes on the same Node
- Noisy Neighbors

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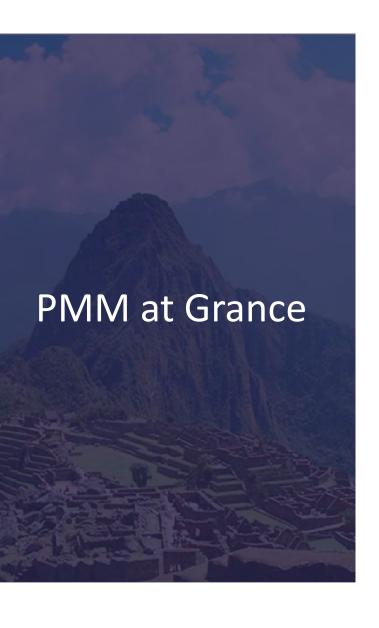
It may make sense to approach Performance Optimization and Troubleshooting from Resource side or Queries Side.

Percona Monitoring and Management (PMM) enables both



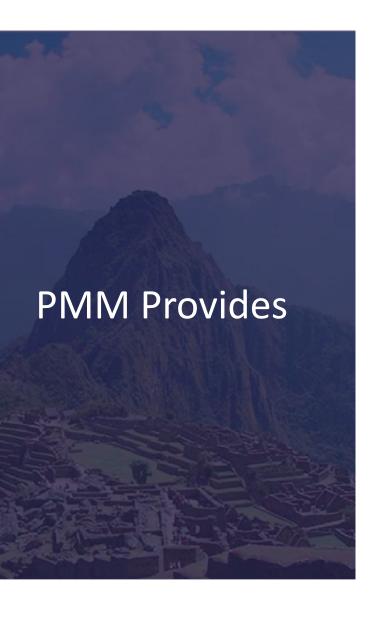
Percona Monitoring and Management (PMM)





- Purpose build Monitoring/Observability platform focused on Databases
- ☐ 100% Free and Open Source
- Roll your own, On Prem and In the Cloud
- Supports MySQL, MongoDB, PostgreSQL
- Supports Cloud Based database deployments such as Amazon RDS

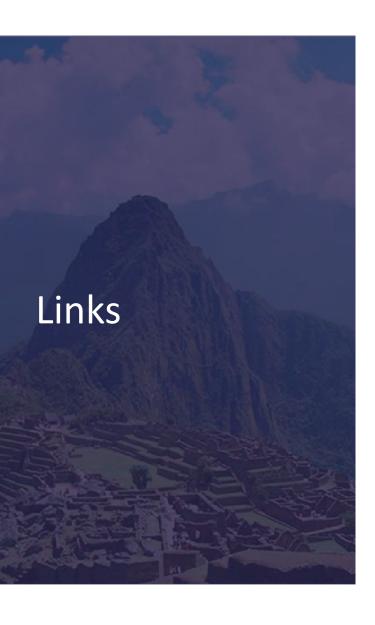
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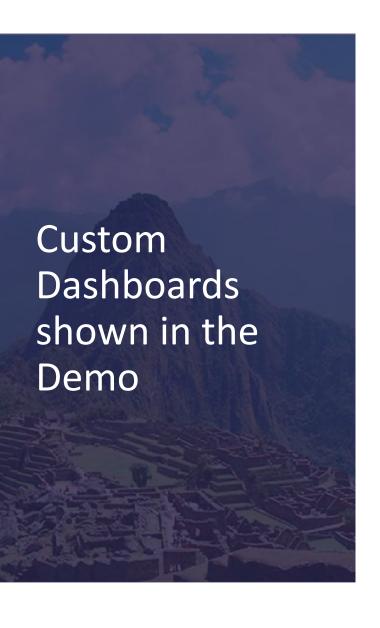
Bring together your Devs and Ops to build better apps faster and run Open Source Databases better

## **Show Time**





- https://per.co.na/PMM
- https://pmmdemo.percona.com
- https://www.percona.com/resources/webin ars



https://www.percona.com/blog/2020/11/02/u nderstanding-mysql-memory-usage-with-perfo rmance-schema/

https://www.percona.com/blog/2021/04/22/u nderstanding-processes-running-on-linux-hostwith-percona-monitoring-and-management/

https://www.percona.com/blog/2020/07/15/m ysql-query-performance-troubleshooting-reso urce-based-approach/

https://www.percona.com/blog/2020/06/17/red-method-for-mysql-performance-analyses/

