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The Presentation

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





Outcomes

Developer

• I want this damn database to work



Outcomes

Manager

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



Outcomes

DBA

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



Queries

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





Application Responsibility

Application is responsible for volume and kinds of queries it generates



Resource Focus

Oversubscribed resource can make even simple queries run slow



Primary Raw Resources











Resource Utilization

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



Approach

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)



PMM at Grance

- 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



PMM Provides

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



Show Time



Links

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



Custom Dashboards shown in the Demo

https://www.percona.com/blog/2020/11/02/understanding-mysql-memory-usage-with-performance-schema/

https://www.percona.com/blog/2021/04/22/understanding-processes-running-on-linux-host-with-perconamonitoring-and-management/

https://www.percona.com/blog/2020/07/15/mysqlquery-performance-troubleshooting-resource-basedapproach/

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



Thank you, Let's Connect!

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