



Bespoke Software Optimization

Online business performance and cost in time of crisis

www.datastork.io

Business advantage in the crisis

Covid-19 pandemic is disrupting the global economy

- It changes the way people live and do business
- Remote work, **online** meetings, Internet trading...

Online systems turn vital but may underperform under load

- Suboptimal software architecture is the leading factor for **performance** related losses

Acquire business advantage through optimal software architecture

- Serve multiple times **more** requests with far **less** computing resources
- Scale elastically with load
- Decrease costs and avoid downtime



DataStork at a glance

- Our mission: **great software** for demanding business
 - Performance re-architecting and tuning for intensive workloads
 - Increasing availability through DevOps, AWS, and VMware expertise
- We **optimize** some of the largest software services
 - Clients trusting us for scaling their core software systems include

BOSCH 

Uber

HEDGESERV

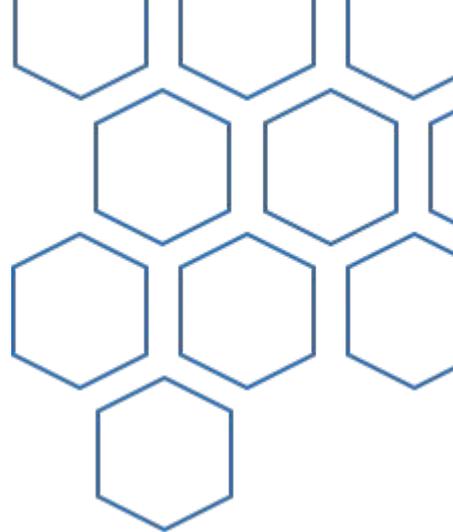
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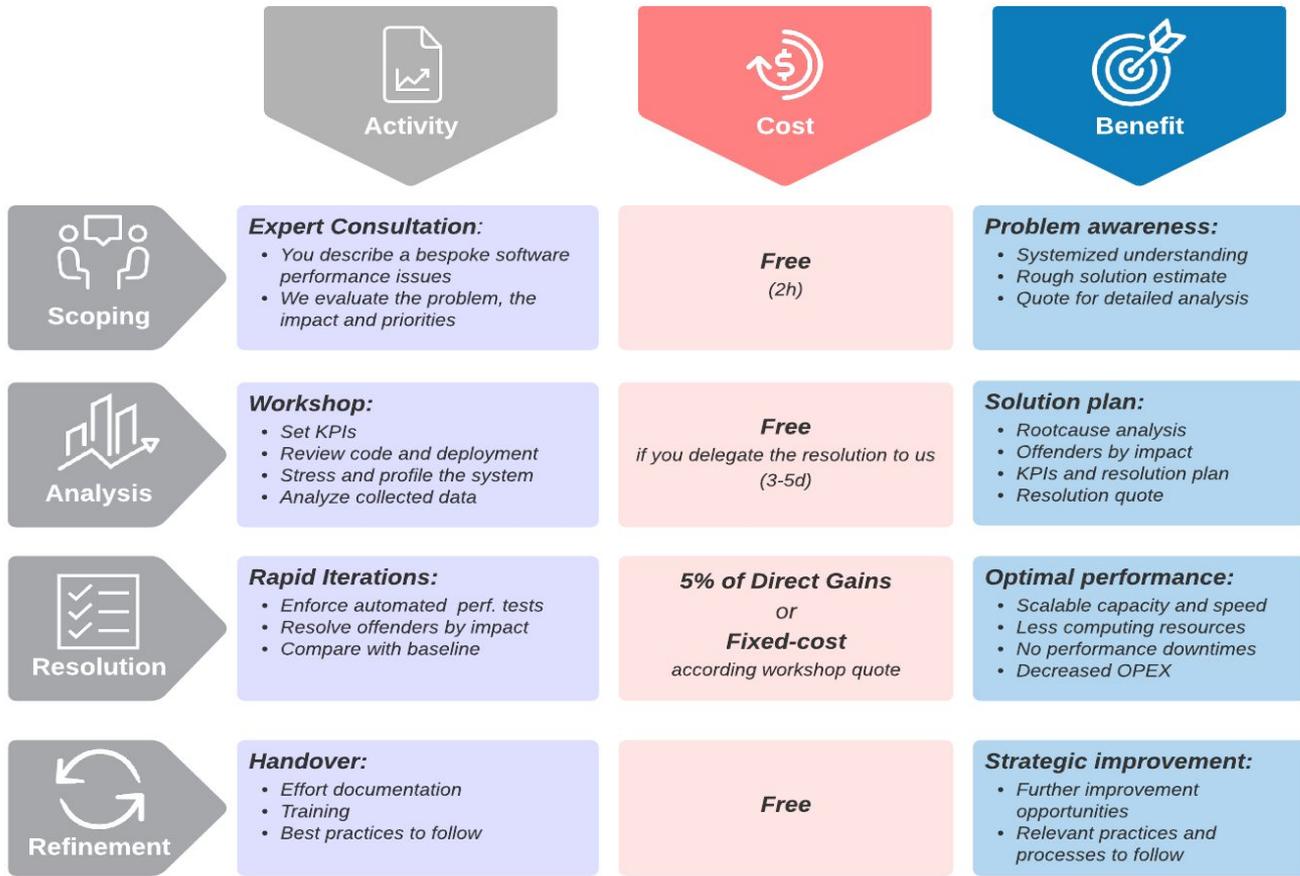


When do we get the call?

- **Unresponsive** software under load
 - requiring massive efforts to be kept alive and causing downtime
- **Costly** business critical systems
 - consuming excessive amounts of computing resources
- Systems that need to scale to accommodate **new load**
 - could be expensive or impossible with the current architecture
- Technology stack: AWS, Java/Spring, Databases



How it works?



Your team of leading experts



Ivan Dachev, 22 years

Architect of the **Bosch** IoT backbone

State-of-the-art **performance** to bridge millions devices in near real-time



Ilko Dragoev, 17 years

Lead in core **VMware** vSphere projects

Efficiency software managing thousands of Private/Public Cloud workloads



Stefan Enev, 12 years

Engineered **Financial Times** data systems

High **volume** analytics that serve massive 24/7 demand



Mission Critical Performance Optimization

Case Study

HedgeServ is a global financial administrator providing technology services to the largest investment funds. A carefully crafted **online software** for bookkeeping **reached its limits** due to increasing customer demand. Scale-up alleviations attempts led to massive resource consumption failing to resolve the daily downtimes.

Hedgeserv contacted DataStork to evaluate the issue. In a 5 day workshop, HedgeServ acquired a structured and precise understanding of the issues, their underlying causes and a quantified plan for their resolution.

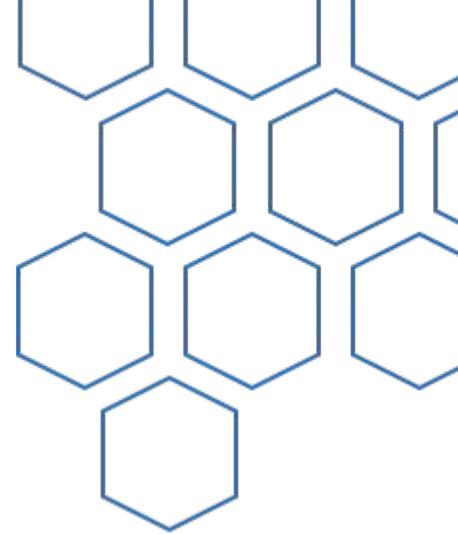
DataStork resolved the identified issues as planned in **2 x 10 days** sprints:

- Success criteria was set through the creation of comprehensive automated tests
- Rewrote key parts of the data-flow, optimizing memory structures and removing top performance bottlenecks

Hedgeserv devops rolled the solution in production and witnessed a complete resolution:

- **Memory** consumption dropped from **24GB to 2GB** per service instance
- **CPU** consumption stabilized to **10 times lower** values with no peaks
- Planned **downtime** due to resource exhaustion was brought to **zero**

One month and five days after engaging DataStork, HedgeServ had their critical online system back, delivering value to the growing business on the fraction of the legacy costs.



HEDGESERV



Thank you

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