PYTHIAN IT FOUNDATION SERVICES
CASSANDRA SERVICES

Customized consulting, implementation and management services that ensure a reliable, scalable and efficient Cassandra environment for your business

HIGHLIGHTS

- Flexible engagements— mix and match the services you need, month after month

- 24/7/365 service coverage for always available, high performing systems

- Services available around the world through remote geo-distribution

- Cost-effective, high-return alternative to hiring internally

- Two millennia of documented successes in a range of database environments

- Certified team with more than 90 years' combined Cassandra experience

- Cloud-certified experts— Amazon web services, Microsoft Azure and Google Cloud Platform

A subscription to Pythian's Cassandra Services gives you access to a dedicated team of certified Cassandra experts that provides you with the services you need when you need them. Customize your service package by choosing what you need—from initial consulting to system design and architecture, through to ongoing 24/7 incident handling and proactive management. This continuity of service ensures the optimal performance and availability of your Apache Cassandra or DataStax Enterprise (DSE) database. Anywhere, anytime—in the cloud or on-premise.

Pythian Cassandra Services provides you with as much support as you need. Choose from these service options to customize your subscription:

CONSULTING SERVICES

- Use case and requirements analysis
- Evaluation of existing technology environment
- Application access design
- Data modeling
- Hardware recommendations
- Capacity planning
- Detailed deployment plan and roadmap
- Upgrade and migration planning
- Cassandra/DataStax Enterprise version recommendations
- Cloud platform recommendations
- Architecture design

IMPLEMENTION SERVICES

- Data model design and development

- Installation and upgrade

- Database partitioning

- Data integration

- Data access configuration

- Cluster design

- DataStax Enterprise installation and configuration

- Data center creation and migration to the cloud (Microsoft Azure, Google Cloud Platform and Amazon Web Services)

- Deployment automation

- Multi-data center DR implementation

- RDBMS to Cassandra migration (ex. Oracle, Microsoft SQL Server)

- NoSQL to Cassandra migration (ex. Hbase, MongoDB)

- Advanced troubleshooting and performance tuning

- Security configuration and system integration

- Pre-production health check and review

- DataStax development including migration from Apache, Hadoop integration, partitioner migration and spark programming

- Analytics tool integration

MANAGEMENT SERVICES

- Remote DBA services

- On-premise DBA services

- 24/7 global operational support

- Advanced troubleshooting of issues

- Root-cause analysis and corrective action of data issues

- Deployment of required upgrades

- Routine task automation

- Cassandra application support

- Ring health monitoring and management

- Performance management and tuning

- Continuous improvements

- Database repair

- Incident response

SUPPORTING YOU IN THE CLOUD

We have strong partnerships with the top cloud vendors, and offer some of the industry's leading cloud expertise. So when you choose to host your database in the cloud, your dedicated Pythian team will include cloud experts who will provide valuable advice and consulting in:

- Cloud solution development

- Cloud platform selection: IaaS vs DBaaS—Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

- Detailed design and build

- Data migration to, and configuration on, the cloud

- Data access and security configuration

- Cloud platform testing and validation

- Resource optimization for cost savings

- Cloud solutions operations support

We do this all while maximizing your cloud investment to ensure cost efficiency, scalability and high availability.

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WHY PYTHIAN IT FOUNDATION SERVICES

Pythian IT Foundation Services ensure your data infrastructure foundation is solid, scalable and efficient, setting the stage for successful data enablement for your organization.

DEEPEST BENCH

You get a dedicated experienced Pythian team—backed by hundreds of additional Pythian experts who can collaborate on particular issues or provide additional expertise as needed. Our ability to hit the ground running means we can start solving your Cassandra issues faster, or quickly take on the management of your Cassandra environment from initial planning to monitoring to analytics and APIs.

FLEXIBLE CONTRACTS FOR BETTER VALUE

Customize your subscription to get the right services and the right skills at the right time for you. Your Pythian team is equipped with the best tools and technologies to deliver the best outcomes faster—which means a better return on your investment. Increase, reduce, or cancel your Pythian subscription with only 30 days' notice and experience the Pythian difference risk-free.

RESPONSIVE, RELIABLE TEAMS

Your Pythian team works seamlessly with your organization to become your remote colleagues. We can help you fill the gaps in your in-house team or become your entire Cassandra team, taking on the management of your system, 24x7x365. We use the FIT-ACER™ human reliability checklist as a method of ensuring the highest standard of quality, repeatability and reliability.

TECHNOLOGY ENABLED

We have captured and documented processes and knowledge from two millennia of successful engagements—if you have a challenge, we have probably seen it, solved it, and documented it. This amassed knowledge is always accessible to your Pythian team, and enables them to securely and efficiently deliver the best outcomes, faster.

SECURITY FOCUSSED

Pythian's security framework includes the policies, methods, and tools to ensure your systems and data are always protected. At the core of this framework is Adminiscope™, our unique privileged access management solution that enables your Pythian team to bypass the Internet and its associated risks whenever they work remotely on your business-critical systems. We ensure a high level of security in our people through comprehensive employee background checks, rigorous employee security policies, and mandatory training on HIPAA/HITECH, PCI DSS and the Privacy Act.

BEYOND CUSTOMER CENTRIC

Our work goes beyond just delivering a positive customer experience. Because we work so closely with our clients, we are able to see things through the customer lens and take a proactive approach to resolving anomalies and issues before they become problems.

"Not only did Pythian fix our performance issues, but they provided guidelines to avoid issues in the future and help us get the most out of our Cassandra infrastructure. A healthy, finely-tuned Cassandra environment scales easily even while operating at peak levels by balancing usage across all of our assets."

— A Major Daily News Publisher

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SAMPLE PROJECTS

- A leading business news publisher, with an average daily readership of more than two million, hired Pythian to resolve complex performance issues with their Cassandra infrastructure they already had in place. Not only did our Cassandra experts fix the performance issues, but they provided guidelines that will help the client get the most out of their Cassandra infrastructure.

- A telecom giant was investing heavily in new IoT and mobile-based digital services. To support this initiative, we delivered a Cassandra architecture and POC, then created a plan for implementing a production-quality cluster. With the cost-saving Cassandra architecture in place and Pythian taking on the ongoing management of the new environment, the company could focus on innovation.

- Pythian helped an email provider by designing implementing and migrating them to a new mail system based on Cassandra, which was designed to be geographically distributed and that could support up to 1 billion mailboxes with more than 1 trillion stored emails.

WHATEVER YOUR DATABASE, WE HAVE YOU COVERED

We provide expert services for the leading traditional and emerging database, data warehouse and analytics technologies, both on-premise and in the cloud. We are the top choice for businesses that have a combination of traditional and non-traditional databases, or hybrid on-premise/cloud environments. Your Pythian subscription also gives you access to experts in many data systems including Hadoop, Oracle Database, Oracle EBS, Cassandra, MongoDB, MySQL, SQL Server, DBaaS offerings on Google Cloud Platform (Google Cloud SQL, Google Cloud Datastore, Google Cloud Bigtable, Google BigQuery, Google Cloud Dataproc), AWS (Amazon RDS, Amazon DynamoDB, Amazon Redshift, Amazon Elastic MapReduce), Microsoft Azure (Microsoft Azure SQL Database, Microsoft Azure SQL Data Warehouse, Microsoft Azure DocumentDB, Microsoft Azure HDInsight). We help our clients get the most from these technologies by offering everything from reliable, scalable and efficient IT infrastructure services, through to enterprise analytics platforms.

For more information on this or other Pythian services, contact us at **info@pythian.com**

DATASTAX
Gold Partner

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