# CROC

Microsoft SQL Server 2019

Consulting and implementation Azure SQL Database



# **KPOK**

### **RUB 30.7**r billion

in revenue for 2019

No.

systems integrator in Russia\*

Top

consulting businesses in Russia\*\*

Top

Russian IT service providers\*\*

Top

Russian IT companies\*\*

2,500+

projects per year



400+

partners

2,000+

employees



100+ Russian

**70+** Asian

30+ open source

9 Solution Centers and 10+ demo labs, including **CROC Immersive Technology Center** 

20+ years of quality management and GOST ISO 9001-2015 certification



## **Expertise in Microsoft technologies**



500+ Microsoft-based projects for 100+ customers since 2015

**60+** Microsoft certified engineers



CROC has adopted and annually updates **internal controls** policies and rules



**50+ employees** annually receive **Microsoft Compliance** training and testing

CROC is creating a new digital ecosystem for society and completing projects in 42 different countries

### **CROC** is a reliable Microsoft partner

**CROC** is a Microsoft Certified Partner and offers licensed software sale, configuration and support services. CROC holds numerous Microsoft awards and actively fosters cooperation as part of the partner program. CROC provides maintenance services to its customers.



20+ YEARS OF COOPERATION



TOP 5
AUTHORIZED LSPs

### **COMPETENCES**

- Gold Data Platform
- Gold Communications
- Gold Application Development
- Gold Collaboration and Content
- Silver Cloud Platform
- Gold Datacenter Cloud Productivity
- Silver Small and Midmarket Cloud Solutions
- Cloud Solution Provider (tier 1)
- Service Provider

# Microsoft-based unified data platfo



Microsoft SQL Server analyzes and manages large data clusters, optimizes business-critical system support, and dramatically reduces application development time.

This reliable system gives you full control over structured and unstructured data, regardless of their location.



Data processing both on-premise and in clouds

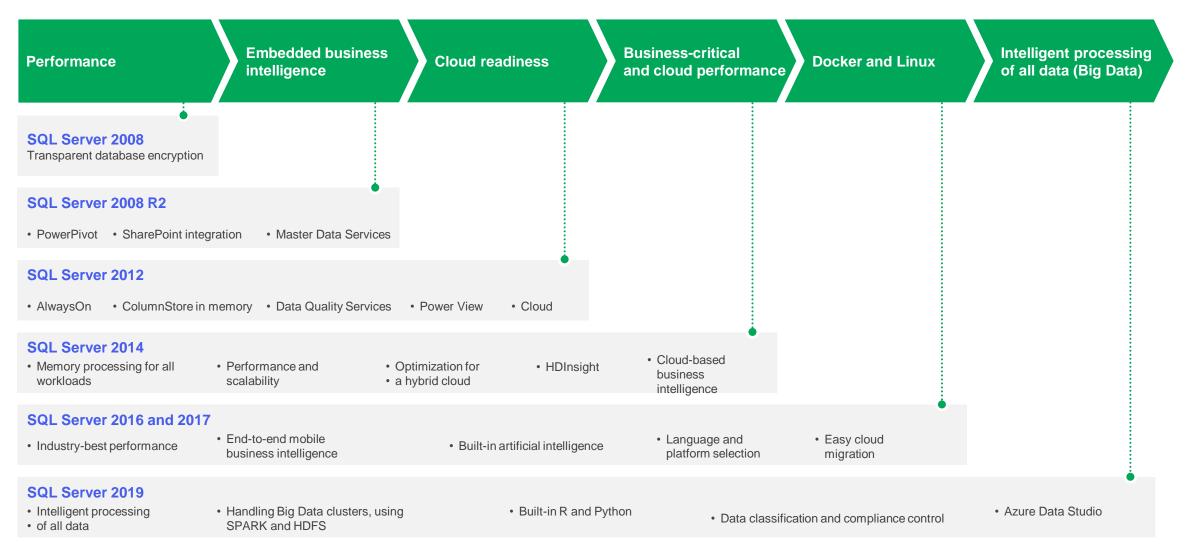


Migration of existing data processing tools to cloud without dramatic changes



Data analysis both on-premise and in clouds

### Microsoft DBMS evolution





### **New SQL Server 2019 version provides**



Ability to analyze each data type



High availability for missioncritical apps and data storages



Hybrid buffer pool



Intelligent query processing



ROM support



UTF-8 encoding support



Platform and language selection



Easy-to-deploy database using Linux containers in a Kubernetes cluster



Easy scalability

# **SQL** use options



**SQL Server** in Azure

Run SQL Server in SQL Azure with built-in security and management tools



**SQL Server** on the edge

Use SQL on IoT devices for realtime analysis based on Azure SQL Edge



**SQL Server** on-premise

Build smart and mission-critical apps on a scalable hybrid data platform



### **Azure SQL Database**

**Azure SQL Database** is a cloud-native, intelligent and scalable relational database service that offers AI-powered automated capabilities to improve performance and resilience. Serverless computing and Hyperscale storage enable automatic capacity expansion in line with customer's current needs.

As a result, the customer can create new apps without thinking about storage size or resource management. Moreover, the transfer of existing SQL Server licenses to Azure, as well as Azure hybrid use and redundancy, will save the customer up to 85% of costs, compared to a pay-as-you-go model.

### **Azure SQL Database**

### **Intelligent and secure Azure SQL Database services enable easy:**

- SQL workload migration from SQL Server to Azure VMs
- upgrade of existing apps using **Azure SQL** Managed Instance
- support of modern cloud apps with Azure SQL Database
- SQL Server core use in the cloud in the same manner as the familiar on-premise SQL
- max return on investments in existing licenses



**Fully managed** database with automatic update installation, prestarting, and backup allows you to focus on app development



Flexible and responsive serverless computing resources and Hyperscale storage quickly adapt to changing requirements



Multi-level security, built-in controls and intelligent threat detection system keep your data safe



Built-in Al and high availability ensure maximum performance and 99.995% uptime

# **State Budgetary IT Adoption Institution**

# Intelligent video surveillance subsystem built on MS SQL 2019

The first stage involved the deployment of 48 analytical and 13 PTZ video surveillance cameras; communication channels between all sites, the central server room, and automated workstation locations; and power supply for complexes.

The central server room was equipped with blade servers and the data storage system running both system software (Microsoft Windows Server, Microsoft SQL Server) and application software (Orwell 2k) that analyzes video stream from cameras and automatically detects hazards ( abandoned items, crowds, intrusions or entering restricted areas, fires).

Alerts and complete information are displayed on user workplaces in the Regional Department of the Federal Security Service, as well as the regional capital's Department of the Ministry of Internal Affairs and Unified Emergency Service, thus helping promptly stop emergencies and criminal activities.

It is the first time when a video surveillance system with analytical cameras covers the entire city.





## Major retailer

#### **Greenplum-based analytical data storage**

CROC piloted two open-source products Pivotal and Arenadata for the customer and then developed and implemented Greenplumbased Arenadata DB as per the customer's choice.

- The customer's team now faster completes requests, handles a large number of data sources, and draws up SQL queries by itself without significant overhead
- The customer can now perform calculations and preprocessing using previously unattainable historical data depth
- Employees collect customer profile info within two hours instead of 12
- Equipment costs 12-15 times less than legacy one

# Oil & Gas Company

#### IT infrastructure audit

CROC experts audited Microsoft products (Exchange Server, Windows Server, SQL Server), virtualization, backup, data storage, and information security systems

Assessment of IT service continuity risks, development of recommendations on how to optimize IT infrastructure expenses and software licenses

The customer obtained a comprehensive report along with an upgrade methodology and roadmap with work and effort breakdown





# Major bank

### IT infrastructure audit and troubleshooting

CROC comprehensively audited server equipment, data storage and backup systems, LANs, as well as data channels between data centers, Oracle DBMS, and MySQL

Revealing configuration errors and nonoptimal use

**02** Eliminating all flaws and developing optimization recommendations

### **A GRUPP**



### IT infrastructure technical support

- Active Directory
  (Microsoft Active Directory Domain Services on Windows Server 2016)
- Basic network services
  (Microsoft DNS, DHCP, NTP on Windows Server 2016)
- **Database management** (Microsoft SQL Server 2016)
- Distributed file storage
  (Microsoft DFS on Windows Server 2016)
- IT infrastructure management
  (Microsoft System Center 2016 Configuration Manager)
- Monitoring
  (Microsoft System Center 2016 Operations Manager)
- Virtualization (VMware vSphere)
- Backup and recovery
  (Microsoft System Center 2016 Data Protection Manager)
- Communication (Microsoft Exchange Server 2016)



- Unified Communications
  (Microsoft Skype for Business)
- Enterprise portal (Microsoft SharePoint 2016)
- Public Key Infrastructure
  (Microsoft Active Directory Certificate Services on Windows Server 2016)
- Remote Desktops
  (Microsoft Remote Desktop Services on Windows Server 2016)
- Rights Management
  (Microsoft Active Directory Rights Management Services on Windows Server 2016)
- Internal and external disk encryption (Microsoft featuring BitLocker)
- Information security
  (Microsoft System Center 2016 Endpoint Protection)



# KPOK

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