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Posted by [ak](#) on Fri, 17 Jun 2022 09:30:52 GMT

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## Performance

- Short Firebird database performance checklist (!)

- 23 More Ways To Speed Up Firebird (!)

- 45 Ways To Speed Up Firebird Database (!)

- Optimized Firebird configuration files (!)

- How to make Firebird work 20% faster on Windows Server 2016 in less than 1 minute

- Using prefix date to speed up queries with DATE columns

- How to make Firebird consume a lot of memory?

- Negative impact of indices to INSERT, UPDATE and DELETE performance in Firebird SQL

- nbackup with switch -D ON does not work on ZFS

## Transactions

- How Firebird Transactions work (!)

- How to track deadlock in Firebirds (!)

## Performance tests

- Simple INSERT/UPDATE/DELETE test (!)

- Quick estimation of disk speed with backup

- Firebird OLTP-EMULator

- Firebird performance degradation: tests, myths, and truth - 1.7Tb, part 1

More details about 1.7 Terabyte Firebird SQL database - 1.7Tb, part 2  
Tuning 1.7 Terabyte Firebird SQL database - 1.7Tb, part 3  
1 Tb Firebird database: a preliminary report

## Firebird Performance Newsletter

Issue 1: Firebird 4 vs Firebird 3 Write Performance, Choosing AWS EC2 instance for Firebird, etc

## Firebird database performance optimization service

Optimization service: description, fees, details  
Questionary: Required information for Firebird database performance optimization

## Recovery

In case of a heavy corruption

FirstAID Recovery tool  
Firebird/InterBase recovery service

## Light corruptions, and general information about corruptions and their fixing

How to repair a corrupt Firebird database? (!)  
Short explanation of gfix.exe output (!)  
How to find and delete duplicate records in Firebird database  
"Cannot commit index" or how to pump data from partially restored (inconsistent) database (!)  
Fighting Petya: our experience with retrieving data from the Firebird database files encrypted by ransomware crypto-viruses  
Common InterBase/Firebird errors caused by corruptions and their recovery chances  
How to protect Firebird databases from ransomware?  
Internal gds software consistency check - full list of serious Firebird/InterBase errors  
How to check RAM and avoid database corruptions  
How to quickly check RAM on Linux  
Internal gds software consistency check - how to recover Firebird/InterBase databases (2014)  
InterBase and Firebird Recovery Guide (chapter from "The InterBase World" book)

## Encryption of Firebird databases

How Firebird Database Encryption Works  
Demo package with sources and step-by-step instructions of Firebird database encryption plugin  
Connect to encrypted database with developer tools

## Hardware & Cloud

Choosing the best AWS EC2 instance for the maximum Firebird write performance  
Firebird Hardware Guide (!)  
How to install Samsung NVME SSD disk driver on Windows Server

Fast, Furious, and Cheap: server with good-enough performance for small business database for less than US\$1000 (deprecated)

## Backups

Firebird Gbak Tips And Tricks  
12 Common Mistakes while Backing Up Databases (!)

## Troubleshooting

How to configure Firebird crash dumps collection on Windows  
Errors in Firebird.log  
How to crash Firebird server

## Installation and Configuration

Installing Firebird 3 on modern Linux versions: CentOS 8 and Ubuntu 19 (!)  
How to use instreg.exe and instsvc.exe (command line tools for Firebird installation on Windows)  
How to make Firebird 3 connect like 2.5 with embedded connection string  
How to enable or disable connection protocols for Firebird on Windows  
How to enable Firebird to work through network protocol at CentOS 6.x  
fb\_lock\_print parameters explained  
Firebird 3 Setup Command line parameters  
Firebird 3 Database Server installation

## Migration

Short Firebird 4 Migration Guide (in PDF)  
Fast conversion of Firebird 2.5 databases to Firebird 3.0 (!)  
Testing application's queries (the excerpt from "Migration Guide To Firebird 3")  
Differences between Firebird and InterBase  
All Firebird and InterBase On-Disk-Structure (ODS) versions  
How to migrate (copy) users from security2.fdb (Firebird 2.5) to security3.fdb (Firebird 3.0)  
List of known incompatibilities between Firebird v 2.x and 3.0  
List of known incompatibilities between Firebird 2.x and 2.5  
Migration service (!)

## Basics

Data types  
Tables. Primary keys and generators  
Database constraints in Firebird and InterBase  
Indices (InterBase and Firebird)  
Views (InterBase and Firebird)  
Database physical structure (InterBase and Firebird)

## Useful pieces around Firebird: tips, tricks, jokes, and how-to

Firebird Stored Procedure to split line with delimiters to recordset  
Firebird 3.0 users with the same names but different passwords (!)  
How to "inflate" Firebird database with temporary blobs (!)  
How to estimate number of records in the table using statistics value of the unique index  
How to execute SQL command with isql in command prompt  
How to determine Firebird architecture with SQL query? (!)  
How to put 29 characters into VARCHAR(10)  
Built-in Firebird 3.0 functions (SDF aka Server Defined Functions)  
All issues of "The InterBase and Firebird Developer Magazine" (!)  
Firebird Conference 2014 report  
Firebird GUI Tools  
Firebird 2.5: Autonomous Transactions  
Alias handling and ambiguous field detecting in Firebird 2.0  
Firebird Index Structure for Firebird 2.0 (ODS 11 and higher)  
The differences between VARCHAR and INTEGER fields in keys  
Space allocation in Firebird 2.1 and higher  
Fixes in Firebird 2.5 regarding connection string charset  
Maximum table size in InterBase (before version 2009)  
Firebird 2.0 garbage collector

## IBSurgeon Tools Guides

HQbird User Guide (and in PDF)  
FirstAID Recovery Guide: English, Russian, Portuguese  
FBScanner User Guide (outdated): English, Portuguese

## Database Analyst (ex-IBAnalyst) optimization articles

How to get statistics from InterBase/Firebird database in the right way  
What you can see at Summary View  
Understanding Your Database  
Tips and Tricks

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<https://ib-aid.com/en/articles/>

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Posted by [DarkMaster](#) on Mon, 08 Aug 2022 05:46:36 GMT

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Posted by [fraks](#) on Tue, 09 Aug 2022 05:24:19 GMT

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- <https://app.assembla.com/spaces/firebird-russian-documentation/wiki>

- <https://github.com/sim1984/langref25>

- <https://github.com/sim1984/langref30>

- <https://github.com/sim1984/langref40>

- <http://www.ibase.ru/develop/>

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Posted by [fraks](#) on Tue, 09 Aug 2022 06:33:29 GMT

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<https://murcode.ru/>

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<https://murcode.ru/forum/2-firebird-interbase/>

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Posted by [sim\\_84](#) on Tue, 09 Aug 2022 09:01:16 GMT

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<https://app.assembla.com/spaces/firebird-russian-documentation/wiki>

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