

Backup server

**Takes no time,
because data is backed up
in real-time.**



Why choose Abakus?

Who are we?

We are leaders in implementing Oracle's newest products on the market. A company specializing in building HA systems for Oracle and OSS infrastructure. Building our own brand of InfiniBand and iSCSI SAN storage systems, clustering and/or virtualization nodes, backup servers using the latest technologies available. Let us become your partner, and we will provide top quality products and excellent support.

What do we do?

We develop innovative solutions and products for Oracle infrastructure.
We build the most performance demanding database systems.
We maintain and support Linux operating systems.
We optimize and maintain Oracle databases (OCP DBA).
We build high availability systems.
We provide training in our field of specialty.

Innovative features

Backup server is a specialized backup-to-disk solution for backing up your organisation's important data. Its most innovative features are:

- 1 BACKUP**
takes no time
- 2 RECOVERY**
data recovery and access to backed up data is almost instant
- 3 DISK SPACE**
backed up data takes up minimal amount of disk space
- 4 AVAILABILITY**
data is always available and always in view
- 5 SECURITY**
backed up data cannot be deleted without support personnel intervention

**Backup server functions best in connection with Oracle databases.
Virtual machines can be backed up as well.
Supported operating systems are Linux and MS Windows.**

1. Real-time backup

Takes no time, because data is backed up in real-time.



REAL-TIME

Backup duration is independent from the size of the data. Data is backed up in real time for any data set.



ALLWAYS CURRENT

Backed up data is always current.



LESS DISK SPACE

Backing up only new and modified data takes up less disk space. This mechanism is called deduplication.



NO INTERFERENCE

Backup does not interfere with normal everyday database operation. This makes backup procedure seamless to end-users.



NO LIMITS

The number of databases that can be backed up by one Backup server is not limited.

2. Instantly accessible data

Backed up data is instantly accessible.



SIMPLY CONNECTED

Instead of restoring data, production environment can simply be connected to the Backup server. Operations can continue to run without interruption.



IN A FEW SECONDS

Recovery time is independent from the size of backed up data set. Any backup can be used in only a few seconds.



FULL DAILY BACKUPS

Backup server has enough storage capacity to store full daily backups for a period of several months.



INSTANT ACTIVATION

Any backup can be activated instantly and any object accessed quickly, regardless of the age of the backup.

3. Minimum amount of disk space

Stored backup data takes up the minimum amount of disk space.

A mechanism called data deduplication is used by Backup server for storing data.

The contents of daily backups of a certain data set are almost identical. Using deduplication, each specific data block is stored only once. This does not affect end-users and system administrators.

From their point of view, each daily backup is a full backup.



4. Always available and always in view

Backed up data is always available and always in view.



AUTONOMOUS AND INDEPENDENT

Backup server is an autonomous and independent system that takes care of the stored data on its own.



AUTOMATED INSTALLATION

After installation backup process runs automatically.



AUTOMATED SPACE MANAGEMENT

After months of usage, when disk space runs out, Backup server automatically deletes the oldest backups and continues to run.



INSTANT ACCESS

Backups are instantly accessible round the clock.



MIRRORED STORAGE




Data is stored on mirrored disks.

5. Backups are safe

Fast, inexpensive, future-proof

Backed up data cannot be deleted without support personnel intervention.

Backup server stores data to a disk storage device. Compared to traditionally used tape appliances, disk storage devices introduce several important advantages:

-  **AUTHORIZED ACCESS**
Data is only accessible to authorized users, accessing over authorized networks.
-  **USER PERMISSION MANAGEMENT**
System administrators are not allowed to change or delete stored data.
-  **AUTOMATIC NOTIFICATIONS**
Backup server can automatically notify support personnel of its status and potential faults.

-  **Lower price**
-  **Any stored backup is instantly accessible**
-  **Greater reliability**
-  **Data deduplication and compression can be used**
-  **Future compatibility**
-  **Speed at which backups can be performed is faster than most tape appliances**

Alternative uses

It does not just back up.

- ✓ **BI analysis**
- ✓ **Reporting**
- ✓ **Oracle database upgrade verification**
- ✓ **Development and testing**
- ✓ **Seamless business operation continuation if production database fails**

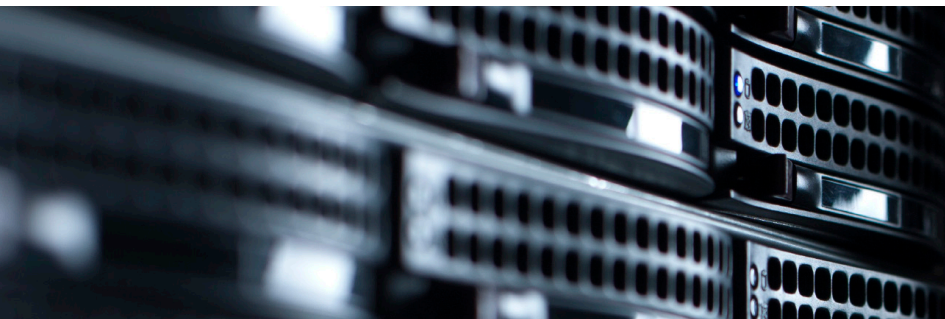
Feature comparison and References

Backup server compared with commonly used backup solutions

<i>Feature</i>	ABAKUS BACKUP SERVER	COMMONLY USED BACKUP SOLUTIONS
<i>Backup duration</i>	In real time	Over night
<i>Business impact</i>	None	Severe
<i>Recovery duration</i>	Almost instant	Several hours
<i>Storage technology</i>	Hard disks	Magnetic tapes
<i>Data access</i>	Instant	Long
<i>Data availability</i>	All backups always available	Only one backup available at a time
<i>Alternative uses</i>	Yes	No
<i>Data safety</i>	Mirrored hard disks	Single tape



www.abakus.si



**Abakus plus information engineering d.o.o.,
Ljubljanska cesta 24a, Kranj, Slovenia**

Homepage: www.abakus.si

E-mail: abakus@abakus.si

Phone: +386 4 287 11 00

Fax: +386 4 287 11 05

Abakus