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Encrypting Health Records

Case Study: GDPR & HIPAA Compliance

Using DPM to secure enterprise database servers with transparent data encryption and access control

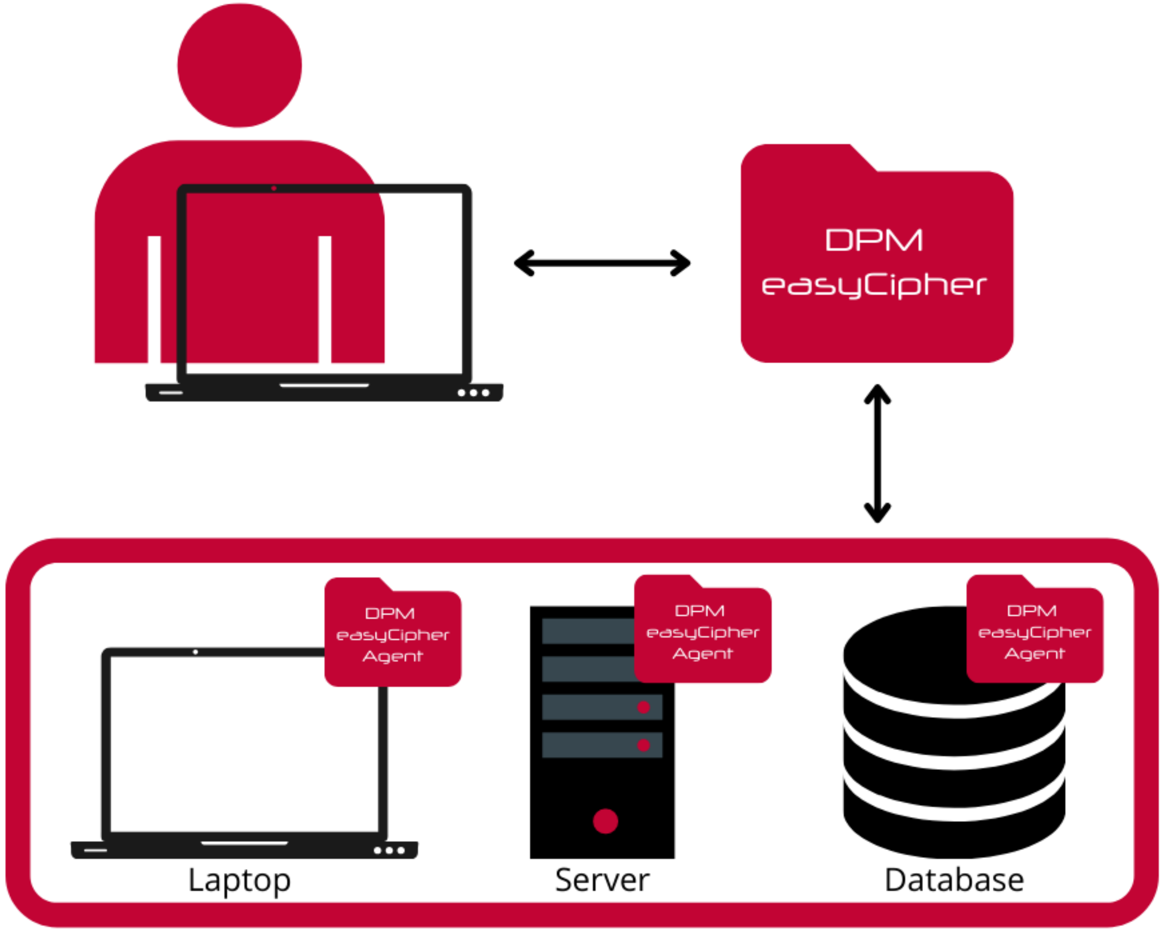
The Challenge

The client needed to protect sensitive patient medical data stored in Microsoft SQL Server databases and images/video files containing patient details stored in file servers. The client did not have the resources to make changes to database, operating system, application, network systems and architecture changes. The performance hit to existing applications accessing the databases needed to be minimal.

The Solution

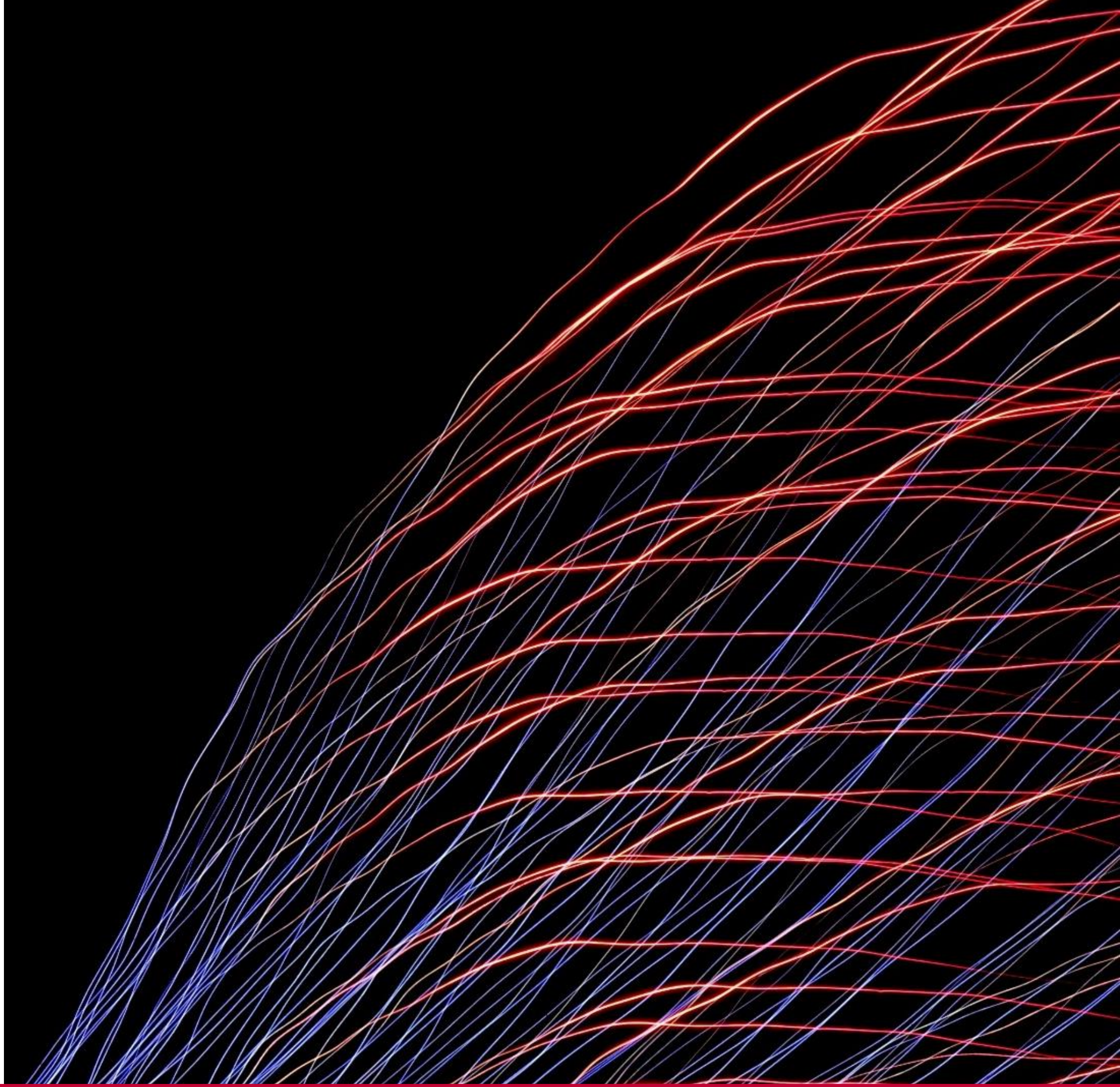
DPM was used to protect the databases:

- DPM easyCipher Agent was installed on each database and file server
- DPM easyCipher Manager was installed on a new virtual machine
- Transparent data encryption with centralized privacy policy enforcement was implemented



The Benefits

- No database, file server, network systems, architecture and application changes were required – DPM transparently protected the databases and file servers with AES256
- Database protection is managed by the security admin and not the DBA
- Protection from all users, including the admin user. Only the database process user is allowed to access the database folder and decrypt the files
- The same method was applied to the SQL Server 2012 and 2019 databases and 2019 file servers. In the future, the same method would apply to newer versions and different database vendors
- High performance – application impact was negligible
- No changes needed for existing database and system backup



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