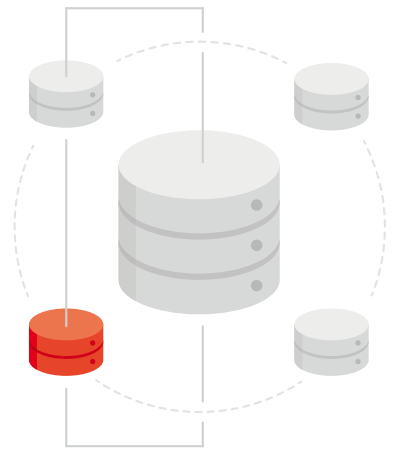

Foxconn Slovakia's consolidation of database and application server infrastructures



After the previous successful cooperation, Foxconn Slovakia, spol. s r.o., has chosen TEMPEST as a supplier of converged infrastructure and hybrid disk storage for its database systems. We created the new data storage by integrating databases and applications into a highly available environment. The consolidated database systems keep data from production systems, and for Foxconn Slovakia their continuous and failure-free operation is a must.

THE SOLUTION

The solution was created as highly available and automated, considering optimization of investment and operating costs. The new infrastructure is primarily based on Dell EMC and Oracle products. Thus, we minimized the number of channels for operation and support. We proceeded by implementing and integrating contemporaneously selected hardware and software components, especially all-flash technologies, changing database licenses and designing a single backup solution for both physical and virtual environments connected with application server virtualization.

PROJECT OBJECTIVES

Consolidation of database
and application servers



Making the database
environment more
efficient

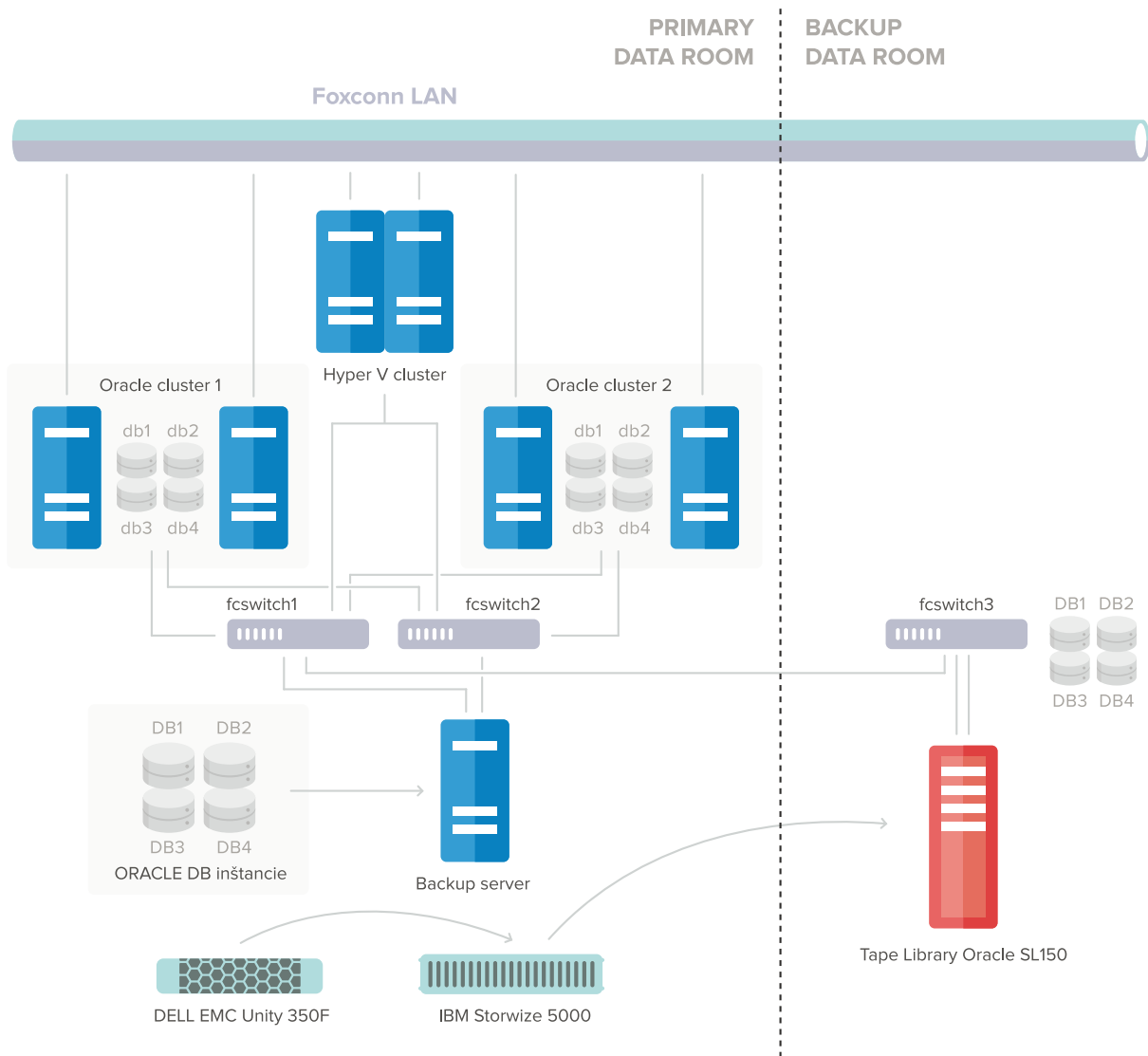


Cost optimization



Building the off-site
backup solution





PROJECT INFORMATION

The environment consolidation started in August 2017 and lasted 1.5 years. The scope of the project has been planned for several hundred man-days. 5 technologists from TEMPEST a.s. and several IT people from Foxconn Slovakia were involved in the implementation.

MAIN PROJECT MILESTONES

- Customer needs analysis, assessment of the given environment;
- Proposal and design of the "green field" solution;
- Technical specification of the proposed environment;
- Creation of a project plan;
- Implementation and installation;
- Migration of databases, each of which have been migrated in several phases over period of 3-4 weeks and implemented without the need for a roll-back;
- Testing phase.

Having all the milestones of the project completed, TEMPEST started to provide complete operation of the delivered solutions.

HOW WE PROCEEDED

Because of the customer's needs, we chose a model to create a new "green field" central data storage, to which we gradually migrated and consolidated databases and applications. We have used the newly built infrastructure environment to replace the obsolete hardware. We have virtualized the application server environment using Microsoft HyperV cluster technology. We have defined and implemented a new backup strategy based on the NetBackup product produced by Veritas.

SOLUTION BENEFITS

- ✓ **High server output** (CPU, RAM, SAN connectivity, LAN) – acceleration of IT operations;
- ✓ **Fast field with large capacity** – all-flash technology brought a significant acceleration of the database environment's response;
- ✓ **Increased database environment availability** reached by Oracle DB clusterware implementation;
- ✓ **Licensing policy optimization** – reduction of licensing costs, transition from Oracle Enterprise edition to Oracle Standard edition 2;
- ✓ **Building an off-site backup system** – an optical route to the backup data centre;
- ✓ **Disk capacity saving, faster recovery** – backup server with internal disk space, de-duplication on internal disk space;
- ✓ **Reduction of system backup and recovery times** enabled by tape library.

The project's commission has stated that all objectives have been met and confirmed the benefit of the solution in meeting Foxconn Slovakia's business requirements. Both parties agreed that the project was successful.

INTERESTING NUMBERS

18 MONTHS

The total duration of the project

12 DATABASES

Used to administrate the infrastructure

5 YEARS

Contracted operating and support periods

ABOUT FOXCONN SLOVAKIA, SPOL. S R. O.

Foxconn Slovakia has been on the Slovak market since July 2010; however, the beginnings of its activities date back to the 1990s when Sony Slovakia (predecessor of Foxconn Slovakia) launched its production in Trnava. Foxconn Slovakia is one of the biggest suppliers of LCD and OLED TV sets in terms of volume and capacity for the whole European market. From a global perspective, Foxconn is a global leader in the production of products for the world's leading brands in the electrical industry. In its plants around the world, it manufactures mobile phones, laptops, TV sets, digital video cameras, gaming consoles, audio and video equipment, IT equipment and many other products.

ABOUT TEMPEST A.S.

TEMPEST a.s., is the foremost provider of IT products and services with a history of over 20 years in the information technology industry. TEMPEST a.s. provides its clients with comprehensive solutions in the areas of IT infrastructure, information security, IT service management and software development.

"The successful migration of the environment into the new Oracle RAC took place while the plant was fully operational with minimal impact and just with the planned system downtime. No complaints arose from the company's internal departments throughout the project,"

Ondrej Jašíček, IS Team Leader / Senior Engineer Foxconn Slovakia, spol. s r.o., regarding the cooperation.

"I appreciate the confidence shown by Foxconn Slovakia, spol. s r.o. during all implemented projects. We have been cooperating with this company for a long time as an umbrella covering several technological areas. In this project, the client gave us a "free hand" in designing the architecture, technology selection, migrations and project management. I firmly believe that the project will contribute to the further development of our cooperation",

Miroslav Slančík, Key Account Manager of TEMPEST, regarding the cooperation.

For our client, Foxconn Slovakia, we have created new data storage by integrating databases and applications into a highly available environment.

Using the infrastructure, database and application server consolidation, we have helped to improve the performance and availability of the database environment. We have helped to make operations more efficient and to reduce system backup and recovery times.

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