

Task: Research on technologies for the infrastructure to-be (Hardware, Hypervisor, Firewall, etc.) and list the components for the future infrastructure!

Table 1: Applications and runtimes of the LowTech GmbH

Department	Application	Platform	Runtime
Finance	Office	4 Clients	Windows XP SP 3
HR	Payroll	3 Clients	Windows 7 SP 3
Warehouse	Delivery	3 Clients	Debian Desktop 5.0 Lenny Web browser Firefox 3.6 on Client
Finance + HR + Warehouse	Legacy Accounting Software + Payroll + Delivery	1 Application Server	RHEL 9.4 MySQL Community 8.4.0 LTS Java Application (Java 8.0) JBoss Application Server (EAP 7.4) Java Servlet-Application (Java 3.0) Tomcat 9.0 Server PHP 8.3.6 program
Finance + HR + Warehouse (BACKUP)	Legacy Accounting Software + Payroll + Delivery	1 Application Server	RHEL 9.4 MySQL Community 8.4.0 LTS Java Application (Java 8.0) JBoss Application Server (EAP 7.4) Jakarta Servlet 6.0 Tomcat 9.0 Server PHP 8.3.6 program
Sales	Lead Management	10 Laptops	Windows 11 Microsoft Dynamics 365 Sales
Sales	CRM	1 Application Server + 1 Storage Server	RHEL 9.4 SAP HANA
Sales	CRM Storage		
Customer Service	CRM System of Sales Department	5 Laptops	Windows 7 SP 3
Web shop + Operations	CMS + Order Management	1 Web Server + 1 Application Server	Windows Server 2022 Microsoft SQL 2022 JDK 22

			Tomcat 9.0 Server Drupal 10.2.6
Web shop + Operations (BACKUP)	CMS + Order Management	1 Web Server + 1 Application Server	Windows Server 2022 Microsoft SQL 2022 JDK 22 Tomcat 9.0 Server Drupal 10.2.6
Operations		4 Laptops	Windows 11

Table 1: Hardware Specifications of the **to-be** infrastructure

Department	Hardware	Specs (OLD)	Specs (NEW)	Power consumption
Finance	4 Clients	Core 2 Duo SU7300, 4GB RAM, 250 GB HDD		500W
HR	3 Clients	Core 2 Duo SU7300, 4GB RAM, 250 GB HDD		500W
Warehouse	3 Clients	Core 2 Duo SU7300, 4GB RAM, 250 GB HDD		500W
Finance + HR + Warehouse	1 Application Server	2 TB HDD	Intel Xeon D- 2899NT 64 GB DDR4 RAM 2 TB HDD	1020W
Finance + HR + Warehouse (BACKUP)	1 Application Server	Xeon X5680 32 GB RAM 1.5 TB HDD	2 TB HDD	1000W
Sales	10 Laptops	ThinkPad X13 Gen 2 AMD Ryzen5		50W
Sales	1 Application Server	Xeon X5680, 16GB RAM 2 TB HDD	Intel Xeon M- 9480 128 GB DDR5	1000W
Sales	1 Storage Server	Intel Xeon E7 4830 32GB RAM	RAM (64*2) 48TB HDD (24*2)	1200W

		10TB Tape drive		
Customer Service	5 Laptops	ThinkPad T410 Intel Core i5 520M		100W
Web shop + Operations	1 Web Server + 1 Application Server	2 TB HDD	Intel Xeon D-2899NT 256 GB DDR4 RAM (64*4) 1TB SDD	1220W
Web shop + Operations (BACKUP)	1 Web Server + 1 Application Server	Intel Xeon E7 4830 160 GB RAM 500 GB SDD 3 TB HDD		1000W
Operations	4 Laptops	ThinkPad X13 Gen 2 AMD Ryzen5		50W

Total **5 Servers** in which **2 are backup** server for web shop and warehouse.

Refences

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https://www.westerndigital.com/products/internal-drives/wd-red-pro-sata-hdd?cjdata=MXxZfDB8WXww&cjevent=7c5f35c20de411ef80e303890a18b8fa&utm_medium=af11&utm_source=cj&utm_content=Shop+Best+Sellers,+Canada&cp1=6361382&utm_campaign=bestsellersca&utm_term=09-22-2021&cp2=Future+Publishing+Limited&sku=WD240KFGX (HDD 24GB*2)

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