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

			Tomcat 9.0 Server	
			Drupal 10.2.6	
Web shop +	CMS +	1 Web Server +	Windows Server 2022	
Operations	Order	1 Application	Microsoft SQL 2022	
(BACKUP)	Management	Server	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		500W
		SU7300,		
		4GB RAM,		
		250 GB HDD		
HR	3 Clients	Core 2 Duo		500W
		SU7300,		
		4GB RAM,		
		250 GB HDD		
Warehouse	3 Clients	Core 2 Duo		500W
		SU7300,		
		4GB RAM,		
		250 GB HDD		
Finance + HR	1	2 TB HDD	Intel Xeon D-	1020W
+ Warehouse	Application		2899NT	
	Server		64 GB DDR4	
			RAM	
			2 TB HDD	
Finance + HR	1	Xeon X5680	2 TB HDD	1000W
+ Warehouse	Application	32 GB RAM		
(BACKUP)	Server	1.5 TB HDD		
Sales	10 Laptops	ThinkPad X13		50W
		Gen 2 AMD		
		Ryzen5		
Sales	1	Xeon X5680,	Intel Xeon M-	1000W
	Application	16GB RAM	9480	
	Server	2 TB HDD	128 GB DDR5	
Sales	1 Storage	Intel Xeon E7	RAM (64*2)	1200W
	Server	4830	48TB HDD	
		32GB RAM	(24*2)	

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

Total 5 Servers in which 3 are backup server for web shop and warehouse.

Refences

www.intel.com/content/www/us/en/products/sku/235750/intel-xeon-d2899nt-processor-30m-cache-up-to-3-10-ghz/specifications.html (Intel Xeon D-2899NT)

https://www.servershop24.de/en/cisco-64gb-4drx4-ddr4-ram/a-129021/ (DDR4 64GB)

https://www.intel.com/content/www/us/en/products/sku/232592/intel-xeon-cpu-max-9480-processor-112-5m-cache-1-90-ghz/specifications.html (Intel Xeon Max-9480)

https://www.speicher.de/arbeitsspeicher-64gb-ddr5-cisco-ucs-c240-m7-ram-rdimm-sp510833.html (DDR5 64GB*2)

https://www.westerndigital.com/products/internal-drives/wd-red-pro-sata-hdd?cjdata=MXxZfDB8WXww&cjevent=7c5f35c20de411ef80e303890a18b8fa&utm_m_edium=afl1&utm_source=cj&utm_content=Shop+Best+Sellers,+Canada&cp1=6361382_wutm_campaign=bestsellersca&utm_term=09-22-2021&cp2=Future+Publishing+Limited&sku=WD240KFGX (HDD 24GB*2)

https://erpiseasy.com/2020/12/30/what-is-sap-crm/#:~:text=The%20latest%20version%20is%20SAP,supported%20until%2031st%20December%202027. (SAP CRM 7.0)