

TASK 7.1P

Cloud technologies, which offer on-demand access to computer resources over the internet, have eliminated the need for physical infrastructure. They provide flexibility, scalability, and cost-effectiveness, allowing businesses to innovate and adapt to changing demands. Important concepts include virtualization, scalability, elasticity, public, private, and hybrid cloud deployment strategies, and service models (IaaS, PaaS, and SaaS). The benefits include lower costs, global accessibility, a faster time to market, reliability, and access to advanced technologies like artificial intelligence. Cloud providers also offer managed services that ensure security and maintenance. Cloud computing is a revolutionary tool that helps modern organizations stay competitive and boost productivity because of these features.