

COMPARING A WEB - BASED APPLICATION AND A DESKTOP APPLICATION IN IT INFRASTRUCTURE MANAGEMENT

on the example of eAuditor V7 WEB system and competitive solutions

Web - based application (eAuditor V7 WEB)	Desktop application (competitive solutions)
no installation required on the device a user is accessing the application through a specific URL	requires installation on the device system installation is required on each administration computer
hardware and software platform independence	full hardware and software platform dependency
continuous access to the application from any mobile device in practice the user can even access the application using a cell phone	specific operating system support required
high data security data is stored on the server and can be accessed via a web server	increased vulnerability to data leakage / theft in practice desktop applications gain full access to all data
no need to update the administration console on the administrator computer an update is performed on the web server side	multiple operating systems support required an update must be installed on each workstation with an administration console
high speed of data processing and presentation data is stored and processed on high-speed servers, transfer concerns only selected portions of data	dependence on administrator's computer performance in most cases, desktop consoles have very high hardware requirements
high system scalability web applications have high server-side scalability	limited system scalability the scalability of the system has major limitations due to the placement of the application logic in the application itself on the administrative computer side
no administrator rights required to run the application the application is not installed on the administrator's computer	necessity to have administrator rights the necessity of having administrator rights to install the system, which is necessary for the application to run later
minimum resources allocation (RAM, processor) of the administrator's computer all server-side data processing operations	high resources allocation allocation of resources depends on the amount of transferred data, the way of data processing, the complexity of processing
no update is required on the administrator's computer	update required on administrator's computer an update process requires administrative rights
no maintenance costs there are no service costs on the administrator's computer - updates, upgrades, patches, etc.	high maintenance costs necessity of installing, updating, upgrading, patching and uninstalling
higher user impact on security	security more dependent on the application developer
high stability web applications are immune to system compatibility errors, the number of application errors is significantly reduced	high vulnerability to installed libraries and other systems desktop applications are fully dependent on the operating system, version, installed patches, other applications
possibility to move to the cloud web application run properly in private or public cloud	no possibility to move to the cloud desktop applications are not designed to run in private and public clouds
low data transfer web applications process data on the server side and the workstation receives a formatted HTML page	high data transfer desktop application in most cases has implemented logic and data processing is performed on its side