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Digital Transformation for the Industry: The Benefits of Moving CSIOnet to the Cloud

Moving CSIOnet, from physical servers, to Amazon Web Services (AWS), a cloud-based environment, brings multiple benefits:

Feature	Cloud Environment	Physical Server
Technology	 Modern, state of the art technology: AWS is a dominant market player with a developed and mature platform. 	 Legacy physical server platform with traditional hosting that cannot be upgraded or customized automatically.
	Agile experimentation: Get to production quickly.	
	Access to other Amazon services.	
	• Foundation to other cloud services at low costs and risks i.e., AI, Lab.	
Security	• Enhanced word class security: Higher levels of security and data integrity. Added security measures that reduce risk, and detect and address threats such as cybersecurity breaches to mitigate the risk of data loss.	 Easier to infiltrate: Increased susceptibility to data loss during disaster situations.
	 Security is constantly monitored and upgraded with features so data is as secure as possible. 	
Scalability & Flexibility	 Ability to scale up or down easily and simple to meet emerging needs for resources such as bandwidth, storage, RAM etc. 	 Cannot ramp up or down resources immediately whenever the need arises. Need to wait for physical hardware to be delivered and installed. No options for down scaling during low usage.
Deployment	 Faster deployment: Services can be deployed within just an hour or a few days. 	• Slower Deployment: It can take weeks, months or years to strategically plan, buy, build and implement an internal IT infrastructure.
Disaster Recovery (DR)	 Cloud automatically backed up and no need for off-site recovery systems. 	 Need to arrange and pay for back-up of data, with physical server housed elsewhere, which is an added expense.
	 Provides better business continuity and incidence response. 	
	 Wider scale of DR options configurable with cloud offerings. 	
Performance	• Improved speed and agility: The site performs far better than one hosted on a traditional physical server, and in a more cost-effective manner.	 Slower speed and not as agile.
		 Cost inhibitive for on-premises solutions with similar performance.
Cost-efficiency	• More cost efficient: Ability to audit usage to contract and expand (& pay) for usage based on need.	 Not as cost efficient: Pay a fixed amount for the services whether you use them or not.
Access to Data	 Better analytics: More access to better data to stop guessing about capacity. 	 Data not as robust. Focus on hardware vs. software and data.
Future Innovation	 Ability to innovate faster: Accelerates innovation and boosts efficiency to meet customer demands externally, while accommodating new technologies in the future. 	 Limited ability to innovate faster. More difficult to integrate new solutions on physical platforms
	Cloud providers consistently growing imbedded partner services to promote innovations.	which limits innovation.