

ABSTRACT

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AKTIVITAS TEKNOLOGI INFORMASI PADA PENINGKATAN KEAMANAN JARINGAN DATA CENTER DI PT. TASPEN (PERSERO)

The rapid development of information technology (IT) encourages companies to improve network security to protect data and critical infrastructure. PT Taspen (Persero), as one of the state-owned enterprises in Indonesia that manages social security programs for civil servants, relies heavily on secure and reliable data centers. This research aims to evaluate the IT activities implemented by PT Taspen in improving the security of their data center network. The research method includes a literature study, interviews with the company's IT team, as well as secondary data analysis related to existing cybersecurity practices. The results show that PT Taspen has implemented various technological measures such as intrusion detection and prevention systems (IDS/IPS), layered firewalls, data encryption, and strict access management to mitigate the risk of cyberattacks. In addition, these security strategies are reinforced with training programs and increased security awareness among employees. However, the study also found challenges in integrating new technologies and maintaining complex security systems. This study concludes that IT activities at PT Taspen play a significant role in improving data center network security, although continuous improvement is needed to anticipate evolving cyber threats

Keywords: *firewall, pusat data, siber*