## Review of Cyber Security in Oil and Gas Industry with Cloud Computing Perspective: Taxonomy, Issues and Future Direction

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**Abstract :** In recent years, cloud computing has earned substantial attention in the Oil and Gas Industry and provides services in all the phases of the industry lifecycle. Oil and gas supply infrastructure, in particular, is more vulnerable to accidental, natural and intentional threats because of its widespread distribution. Numerous surveys have been conducted on cloud security and privacy. However, to the best of our knowledge, hardly any survey is carried out that reviews cyber security in all phases with a cloud computing perspective. Moreover, a distinctive classification is performed for all the cloud-based cyber security measures based on the cloud component in use. The classification approach will enable researchers to identify the required technique used to enhance the security in specific cloud components. Also, the limitation of each component will allow the researchers to design optimal algorithms. Lastly, future directions are given to point out the imminent challenges that can pave the way for researchers to further enhance the resilience to cyber security threats in the oil and gas industry. **Keywords :** cyber security, cloud computing, safety and security, oil and gas industry, security threats, oil and gas pipelines **Conference Title :** ICCMDT 2022 : International Conference on Computers, Microprocessor Design and Technology **Conference Location :** New York, United States

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