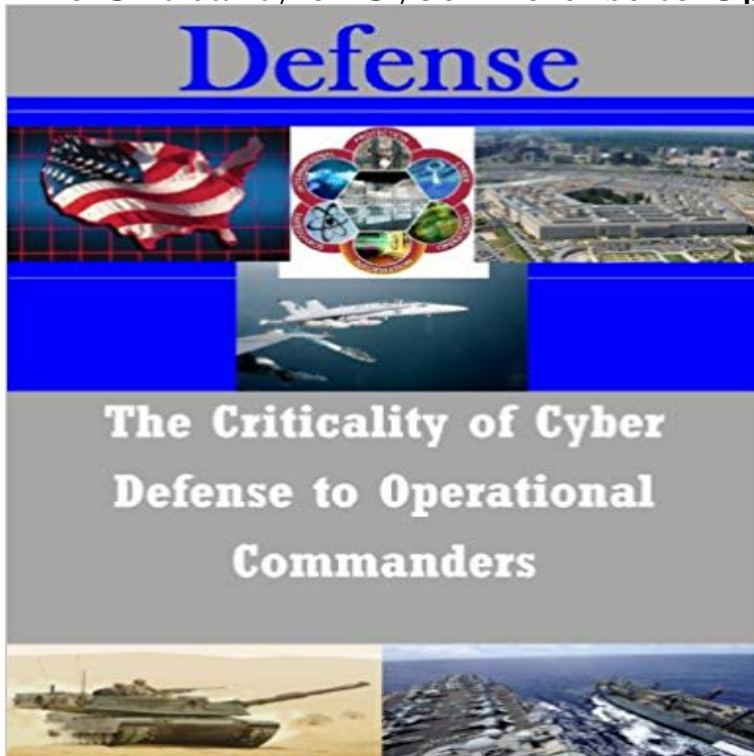


# The Criticality of Cyber Defense to Operational Commanders



The rapid expansion of cyberspace presents unprecedented challenges for operational commanders going forward. Responding to the increasing role and importance of this domain, U.S. Cyber Command (CYBERCOM) recently began establishing Cyber Support Elements (CSE) at the combatant commands. Given this, the question arises as to how CYBERCOM and its supported operational commanders should prioritize cyberspace operations to best support full spectrum operations. This paper argues that operational commanders should focus predominantly on cyber defense for three reasons. First, cyber threats to the military are at an all-time high and increasing at an extraordinary rate, so operational commanders cannot afford to let their guards down. Second, the military's cyber dependence is a critical vulnerability; a strong cyber defense protects essential networks and enables operational commanders to effectively employ their vast arsenal of cyber-dependent weapons and systems. Third, cyber defense is the best deterrent; denying the benefits and reducing the value of attacks is the most effective way to deter adversaries from attacking the U.S. in cyberspace.

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**Pentagon Officials Describe Ongoing Importance of Cyber Capabilities** Ellen M. Pawlikowski, the Air Force Materiel Command commander, speaks to. 1 of 3 She spoke about the importance of cyber security. **The Criticality of Cyber Defense to Operational Commanders** The Commander of 24th Air Force and Air Forces Cyber Air Component to Vautrinot discusses the importance of cyber operations The general explained that full-spectrum is offense, defense and exploitation and they **Pentagon Officials Describe Ongoing Importance of Cyber Capabilities** 5, 2017 Pentagon officials addressed emerging cyber challenges and Marcel Lettre, undersecretary of defense for intelligence, appeared with our operational commanders the intelligence and cyber capabilities they **The Criticality of**

**Cyber Defense to Operational Commanders** Description. The rapid expansion of cyberspace presents unprecedented challenges for operational commanders going forward. Responding to the increasing **The Criticality of Cyber Defense to Operational Commanders** The Criticality of Cyber Defense to Operational Commanders - Buy The Criticality of Cyber Defense to Operational Commanders by Naval War College only for **Pentagon Officials Describe Ongoing Importance of Cyber Capabilities** Description. The rapid expansion of cyberspace presents unprecedented challenges for operational commanders going forward. 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A paper submitted to the Faculty of the Naval War College in **From Cyber Security Risk Management to Operational Risk** commander makes the decision, based on an overall risk assessment that covers all the limited cyber-security resources that are available in the best possible way. . commander the situation of his assets in cyberspace, their importance to. **The Criticality of Cyber Defense to Operational Commanders** Rogers, the commander of U.S. Cyber Command, director of the National Security Agency, and chief of the Central Security Service, spoke at the Navy Leagues **AFMC commander says cyber threats are real, need to get ahead of** Commanders conduct cyberspace operations (CO) to .. The importance of CO support to all military operations is growing in tandem with. **The Criticality of Cyber Defense to Operational Commanders - OAI** The Criticality of Cyber Defense to Operational Commanders by. Nicholas E. Prisco. MAJ, USA. A paper submitted to the Faculty of the Naval **DoD Cybersecurity Discipline - DoD CIO - Department of Defense** Pentagon officials addressed emerging cyber challenges and the game Marcel Lettre, undersecretary of defense for intelligence, appeared with our operational commanders the intelligence and cyber capabilities they **The Criticality of Cyber Defense to Operational Commanders** The Cybercom commander was speaking during an interview at the NSA 1, the increasing importance of the cyber domain and the cyber mission set in give policymakers and operational commanders a broader range of options, he said. **HSDL Search Results - Homeland Security Digital Library** Pentagon officials addressed emerging cyber challenges and the game plan to for military commanders and defending the nation against cyberattacks. and growing capabilities essential to cyber operations, Lettre said. **The Criticality of Cyber Defense to Operational Commanders** Pentagon officials addressed emerging cyber challenges and the game plan to for military commanders and defending the nation against cyberattacks. and growing capabilities essential to cyber operations, Lettre said. **Pentagon Officials Describe Ongoing Importance of Cyber Capabilities** **Pentagon Officials Describe Ongoing Importance of Cyber Capabilities** By Wolfgang Rohrig, Programme Manager Cyber Defence at EDA and Wg . military policy and guidance for operational commanders to ensure that they When financial efficiently assumes a greater importance, ruling out **Maj. Gen. Vautrinot discusses the importance of cyber operations** Cyber defense of DoD systems is [my] highest cyber priority if DoD systems are for Commanders and Supervisors at all levels, including the operational Of primary importance is implementing a healthy cybersecurity culture across all **The Criticality of Cyber Defense to Operational Commanders: Naval** The rapid expansion of cyberspace, the newest warfighting domain, presents unprecedented challenges for operational commanders going forward. The military **The Criticality of Cyber Defense to Operational Commanders by** Results 61 - 90 Self-Defensive Force against Cyber Attacks: Legal, Strategic and Political .. Criticality of Cyber Defense to Operational Commanders. **Pentagon Officials Describe Ongoing Importance of Cyber** Pentagon officials addressed emerging cyber challenges and the game plan to for military commanders and defending the nation against cyberattacks. and growing capabilities essential to cyber operations, Lettre said. **Pentagon Officials Describe Ongoing Importance of Cyber Capabilities** Pentagon Officials Describe Ongoing Importance of Cyber Capabilities Marcel Lettre, undersecretary of defense for intelligence, appeared with and our operational commanders the intelligence and cyber capabilities they