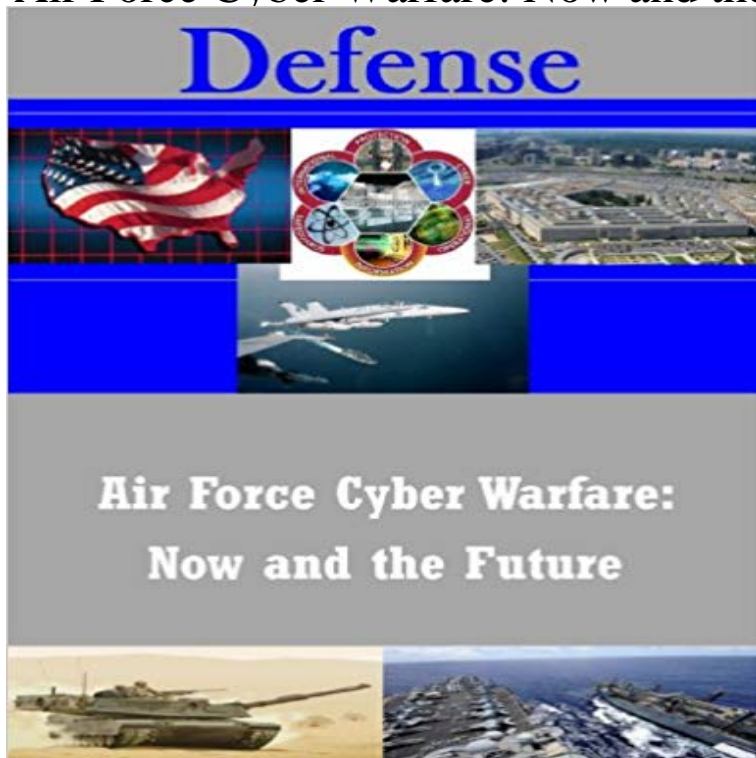


## Air Force Cyber Warfare: Now and the Future



Modern-day cyber warriors are elusive figures. Are they technological ninjas, typing feverishly on a keyboard in a darkened room or perhaps gunslingers throwing cyber bullets downrange at shadowy foes? There are many images of cyber warfare in popular culture. Most of them focus on the individuals uncanny grasp of technology the ability to exploit any system with a dizzying flurry of keystrokes or to fend off adversaries with a smartphone, a paper clip, and an ingenious plan. These socially awkward heroes and heroines fill the silver screen with visions of a new kind of warfare. Contradicting these stereotypes, Air Force cyber operations are carefully planned and controlled by disciplined, rigorously trained operators. Rather than acting alone, these professionals produce effects in support of national interests through teamwork, careful coordination, and deliberate, considered targeting based on established national policy. This article discusses the events and thinking that have resulted in today's cyber forces, describes how they operate in cyberspace today, and presents a vision for how they will continue to provide cyberspace dominance in future wars. Although many of the cyber warfare capabilities of tomorrow are speculative in nature, the enabling technologies and policies for them exist today.

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