In recent weeks, there has been much discussion about how cyber security has become critical and how combining cutting-edge, state-of-the-art technology with skilled personnel is one of the best approaches to cyber security. In keeping with this directive, I'd like to discuss two emerging security technologies: Next-Generation Firewalls (NGFW) and Extended Detection and Response (XDR).

A next generation firewall (NGFW) extends the capabilities of a stateful network firewall. A stateful firewall is a kind of network security device that filters incoming and outgoing network traffic depending on the port and IP address associated with the traffic. On the contrary, an NGFW adds capabilities such as intrusion prevention systems (IPS), application control, and sandboxing to a traditional firewall.

This, however, may not be sufficient; as all significant advanced persistent threats (APTs) thrive on stealthy attacks that avoid detection. They propagate over time by hiding between security silos and unconnected alerts. Extended Detection and Response (XDR) as a solution, breaks down these silos by leveraging a holistic approach to detection by capturing and correlating deep activity data across security silos like; systems, network traffic, among others. Automated analysis of this massive collection of rich data identifies risks more quickly.

**References**

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