

Triple AAA Game Server Protection by Arxan for Game Integrity

Case Study

Category: Gaming

Application(s): Anti-Server Cloning

Product(s): GuardIT®, TransformIT®

One of the world's largest vendors of AAA gaming titles sought to expand its franchise in China. A major barrier for their geographical expansion was that the gaming title was a first-person shooter (FPS) and the latency created by basing the servers outside of China would severely diminish the quality of play. The desired solution, would be to base the servers close to the consumers, which (in this case) meant basing the servers in China.

Challenge:

The customer's challenge was that the data centers in which the game servers would be based, would no longer be trusted as they resided outside their premises. The concern was that the entire franchise could be effectively "kidnapped" by a Chinese company that could result in forfeited revenue, compromised brand and significant loss in customer experience, with little possibility of legal relief.

Solution:

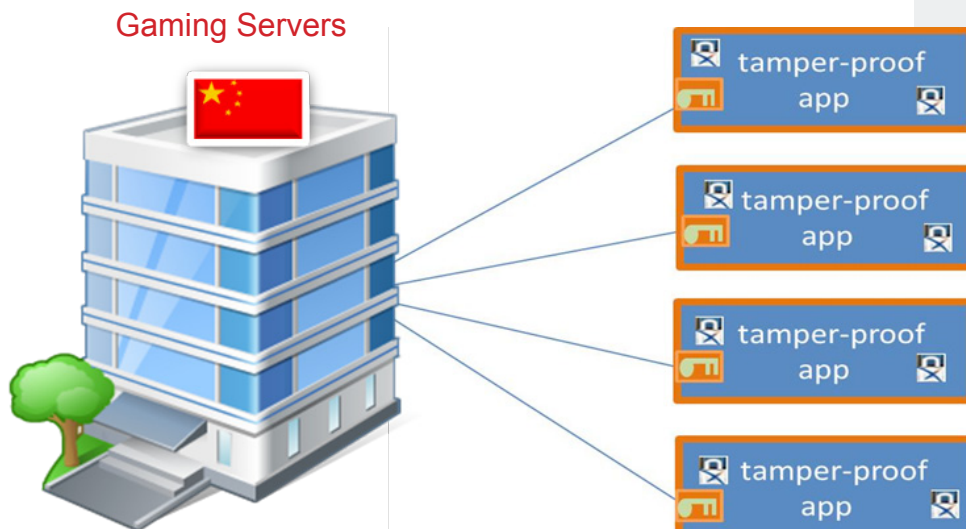
Arxan's GuardIT product is specifically designed to protect applications that are deployed into untrusted environments, and thus was the ideal solution to harden the server software. In addition to hardening the game publishers software, the game code needed to be kept in an encrypted form when being deployed electronically to China. Arxan's TransformIT product provided a whitebox cryptography engine that allowed the application to be kept encrypted without exposing the keys to potential hackers. TransformIT was also used to encrypt data communication between the Chinese based servers, and the servers in North America which are used to meter the usage of the servers in China.

GuardIT® is specifically designed to protect applications in untrusted environments.

Results:

The result of this security-based architecture is a trusted method to operate servers that are hosted in untrusted data centers.

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Benefit: The benefit to this game customer was that they could provide a high quality (low latency) gaming experience for users in China and ultimately enable their business to deploy their valuable software with confidence in untrusted environments.

About Arxan Technologies

Arxan Technologies Inc. is the industry leader of application protection solutions that secure the App Economy. Arxan's application protection secures mobile, desktop, server and embedded applications against tampering and reverse engineering attacks as an integral part of end-to-end application security. Our security defends against unauthorized use, insertion of exploits, piracy, and theft of intellectual property for global leaders in markets such as Fortune 500 enterprises, financial services, ISV, gaming and digital media to proactively defend the integrity of their code and business models. Arxan's proven, scalable and durable application protection solutions defend, detect, alert and react to application attacks through a threat-based, customizable approach. Arxan Technologies is headquartered in the United States with global offices in EMEA and APAC.

For more information, please visit www.arxan.com.