

Introduction to Security-enhanced Linux (SELinux)

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Abstract: SELinux is open source project being sponsored by the National Security Agency (NSA), and it was originally developed by the NSA. Linux is chosen for the SELinux project because of its large community of use and its open source development model. SELinux is an operating system based on Linux that includes flexible mandatory access control (MAC), which ensures a high level of security within the operating system. SELinux provides more security measures such as role-based access controls, and fine-grained transitions and the principle of least privilege. SELinux provides security at the kernel level with the implementation of a security policy and an enforcement mechanism, supporting most commonly used applications with the security policy on the system.