

Secure Web Administration

NDP Research – Tech Note

July 2012

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Tech Note Number	NDP-TN-110
Problem	Achieving a comprehensive yet secure web administration interface for infrastructure and application servers.
Description	NDP possesses the experience and personnel to provide rapid and comprehensive web administration suite for virtually any application. By using an original security approach to the common Webmin package as well as custom Perl modules nearly any application can be administered with granular Role-based access control (RBAC) with a significantly reduced attack surface.
Core Technology	NDP solutions leverage advanced networking and software technology, including FOSS. The solution described utilizes Red Hat Enterprise Linux (RHEL) based platforms (such as RHEL, CentOS, or Scientific Linux version 6) along with Apache and Webmin. All components are secured with custom Security Enhanced Linux (SELinux) policies as well as guidance from the National Security Agency (NSA), Defense Information System Agency (DISA) and Defense Security Service (DSS) using original and innovative policies and techniques.
Benefit	Our customers see operations and maintenance (O&M), security, monitoring, and interoperability of their core infrastructure and application tiers from a unified interface. Virtually any application can be controlled, including databases via a web-based SQL dashboard, performance monitoring, and common system administration tasks. Solutions are tailored for individual program needs, while retaining/improving data-sharing via service-oriented and/or web-based interfaces.
Market	Our focus is on Defense and National Intelligence agencies with space-based assets, but the techniques and technologies apply in other sectors with stringent reliability, latency, and security requirements.
Technology Readiness Level	7. System prototype demonstration in an operational environment
Keywords	Webmin, Apache, Cloud, Perl, RDBMS, Red Hat, RHEL, Fedora, CentOS, Scientific Linux, SELinux, MAC, CI, MLS, NSA, DISA, DSS, STIG, SRR, Gold Disk

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About NDP

NDP designs and deploys complex computer systems and networks. We also assure that these systems and networks can operate securely in cyberspace. By integrating sound net-centric designs into our customer systems, we enable them to gain a competitive advantage that translates to mission effectiveness. We primarily support DoD, Intel and Federal customers and currently expanding our offerings to the commercial and academic markets. We are a customer-centric, technology-centric and people-centric company.

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