NETWORKPROGRAMS™

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Success Story

A US Based Company

Porting of Security Software Products

The Project

Network Programs (India) Ltd. was responsible for the development, porting, and testing of the core components of a security product. The product dealt with security with intrusion and anomaly detection and prevention being its key features. The product consists of a management system & agents. The management system centrally manages client while the server agent protects critical endpoints against threats.

The Challenge

- Typically the project consisted of reverse engineering and porting thousands of lines of code
- The project involved porting agent driver module which is kernel loadable module, and is written in C
- Involved porting of agent, written in Java
- Installer and packaging

... challenges continued

- The entire project required to be ported to various Unix variants – Solaris 9, AS Linux 3.0, and AIX 5.3 platforms
- Required good understanding of Unix internals
- Kernel source code of some OS like AIX is not open/available which is a challenge in itself
- The product underwent a rigorous testing process

The Solution

- Reverse engineering was done which was followed with the porting of Linux, Solaris and AIX
- The testing team did integrated testing, performance testing, regression testing and stress testing

Benefits

- Protects the broadest range of platforms and applications,
- Requires fewer resources to manage
- Deploy and scale by eliminating the need for constant updating and management by security experts
- The centralized summary view of system and event information provides administrators with the ability to drill down into greater detail
- Reduces management complexity by controlling all enterprise resources from a single management system.

Features

- The security product is based on client- server architecture
- The management server is responsible for collecting alerts generated by each agent and propagating them to a monitoring application
- The agent exists on each machine that is being monitored and is responsible for detecting and reporting anomalies to the management server
- As the agents detect and prevent attacks using various techniques, rich forensic information is gathered and sent to the management system.

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