

Red Lambda Integrity Overview

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What Does Integrity Do?

Integrity: Distributed Application Control

- Direct policy control of network usage based on an end user's *identity & security role*
 - **Example:** Alice, a student, may use BitTorrent between 5pm & 9am from her dorm and never on wireless networks
- Provides NAC-style containment and administrative automation
- Uses Red Lambda's cGRID technology to create a *swarm* using existing computers that monitor traffic, correlate identity and automate policy

How Does Integrity Work?

- **Monitoring:** Combines deep packet inspection & behavioral analysis
 - Passively monitors at span ports
 - Certified using 128-byte packets @ 3 Gps on Dell 1950 quad core
 - Rule base updated daily, import Snort rules, or create your own; Covers all P2P, encrypted or not
- **User Tracking:** Collects data from existing infrastructure
 - User-to-MAC: Network registration and/or Active Directory logins; LDAP
 - MAC-to-IP: DHCP and/or static assignment tables
 - MAC-to-location: SNMP used to gather data from switches/AP's/VPN concentrators
 - IP self-assignment: Checks for discrepancies between DHCP and ARP

How Does Integrity Work?

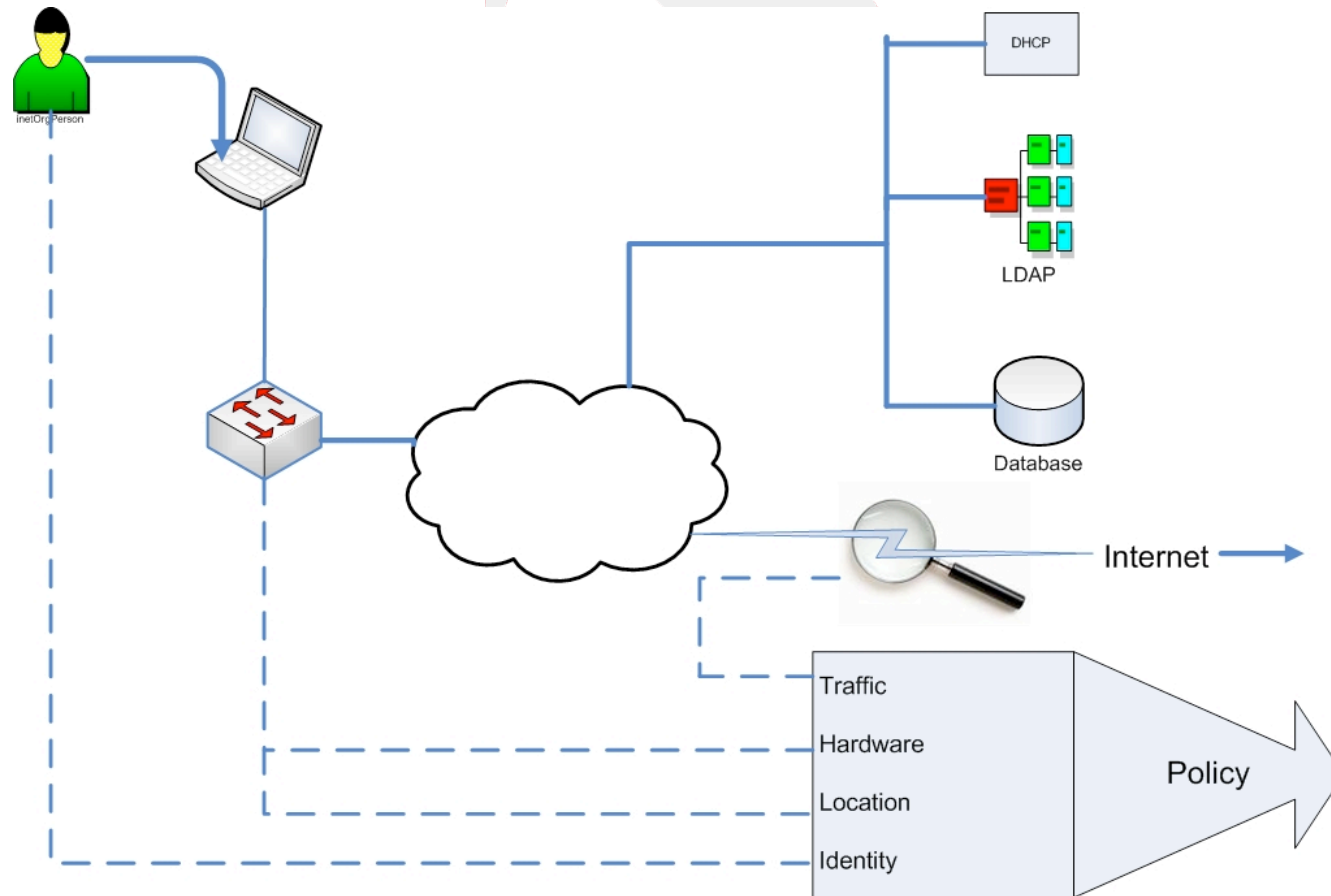
- **Policy:** User shadowing; Unlimited combinations; Full white/black lists
 - User shadowing: Uses tracking information to apply policy consistently as users move around the network or use different resources
 - Make policy decisions using any data available via SQL, LDAP, email, SNMP, etc.
 - **Example:** Apply different policy if we have received a DMCA complaint, or pre-litigation notice
- **Containment:** Combine most appropriate strategies for your network
 - VLAN steering, DHCP steering
 - Dynamic ACLs, firewall rules, IPS rules
 - ARP poisoning, dynamic bridge filtering

How Does Integrity Work?

- **Automation:** Perform other needed administrative tasks as needed
 - Perform database operations (**e.g.** file help desk tickets, create judicial records, etc.)
 - Notification (**e.g.** web redirection, send/check email, IM, RSS)
 - Design your own with graphical workflow designer and resource plug-ins
- **Installation Requirements:**
 - Java 5.0 JVM
 - Span ports (at monitoring locations)
 - Supported platforms:
 - Windows 2000, XP, 2003, Vista
 - Linux 2.6, FreeBSD, OpenBSD, NetBSD
 - OS X, Solaris 10

How Does Integrity Work?

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Competitive Advantages

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- Holistic approach
 - Monitor in as many locations as you want; manage from one interface
 - Takes advantage of existing network infrastructure & tools
- Scalability and architectural efficiency
 - Fast: Swarms work in parallel; scale to millions of nodes
 - Green: Uses existing resources, not add more boxes.
- Drive security admin efficiencies
 - Eliminates all of the time spent tracking historical user information
 - Automate complete problem lifecycle, not just detection

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What Integrity IS NOT

- Is not a content or copyright analysis system
- Is not an appliance, point solution or inline device
- Is not installed on user machines
- Is not secretive with your data; open DB schemas, rules