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Host-Based Intrusion Detection System (HIDS): Deployment Guide

A HIDS monitors events and changes on an individual host. Useful deployment requires protected telemetry, tuned detections, tested alerts, and a response owner.

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A **host-based intrusion detection system (HIDS)** monitors activity and state on an individual computer, server, workload, or application host. It can alert on suspicious processes, authentication events, configuration changes, file integrity changes, services, scheduled tasks, registry keys, audit records, and network activity visible to that host.

A HIDS is primarily a detection and evidence source. Some products can also block actions, but automatic prevention changes the risk and should be tested separately.

What a HIDS can monitor

- operating-system and application logs;
- process creation, command lines, parent-child relationships, and loaded modules;

- changes to protected files, binaries, configurations, and Windows Registry locations;
- local users, groups, privileges, services, tasks, and startup entries;
- security controls being stopped, reconfigured, or bypassed;
- connections and listening services observable from the endpoint.

NIST SP 800-94 describes host-based IDPS agents, management servers, consoles, and monitoring of logs, processes, file access, and configuration. The publication is older but remains a useful architectural reference; current deployments should also account for cloud workloads, containers, and modern endpoint telemetry.

HIDS, FIM, EDR, HIPS, and NIDS

- **File integrity monitoring (FIM)** focuses on changes to selected files and configurations and may be one HIDS capability.
- **EDR** normally provides broader endpoint telemetry, investigation, hunting, and response actions; it can overlap heavily with HIDS.
- **HIPS** can prevent selected host activity inline, while HIDS emphasizes detection.
- **NIDS/NDR** observes network traffic beyond one host and can see activity that never reaches an endpoint agent.

Product names are inconsistent. Compare actual data sources, detection logic, response actions, operating-system coverage, and evidence retention rather than relying on the label.

Typical architecture

An agent or native sensor collects host data, applies some rules locally, and forwards events and alerts to a protected management service. A console distributes policy and lets analysts investigate. Central storage should remain available if the endpoint is isolated and should prevent an attacker who controls one host from rewriting historical evidence.

Deployment checklist

1. **Prioritize assets.** Begin with internet-facing servers, identity systems, administrative workstations, and sensitive workloads.
2. **Define use cases.** Map each monitored event to a threat, compliance requirement, or investigation question.
3. **Build a known-good baseline.** Record expected services, software, accounts, critical files, and routine change windows.
4. **Protect the sensor.** Restrict policy changes, monitor agent health, encrypt transport, and centralize important records.
5. **Control performance.** Test CPU, memory, disk, network, and application impact under realistic load.
6. **Assign ownership.** Every high-priority alert needs a responder, evidence checklist, and escalation path.

Tuning and validation

Start in alert-only mode. Tune approved software deployment and administration by signer, path, account, host role, and time rather than broad exclusions. Test representative detections: protected-file change, new service, suspicious task, audit-log clearing, agent stop, and loss of connectivity. Confirm that the central console receives enough raw context to distinguish authorized work from attack activity.

Track sensor coverage, last check-in, policy version, alert latency, false-positive cause, and investigation outcome. A quiet console may mean a secure fleet, a broken sensor, or rules that never fire.

Limits and safe response

A HIDS sees only configured host data. Encryption outside the host, unmanaged devices, identity-provider events, and network-only behavior require other sources. A privileged attacker may tamper with local evidence, and an overwhelmed agent can drop events.

For a high-confidence alert, preserve the event and process context, isolate according to policy, correlate identity and network records, and investigate adjacent hosts. Do not delete the named file before determining whether it is evidence, a persistence mechanism, or a legitimate file modified by another process.

Reference: NIST SP 800-94, Guide to IDPS.

HIDS FAQ

Is antivirus a HIDS?

They overlap, but antivirus primarily detects malicious content and behavior. A HIDS may monitor broader host state and policy changes.

Should every endpoint use identical rules?

No. Use a controlled core policy plus role-specific monitoring for servers, workstations, cloud workloads, and critical applications.

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