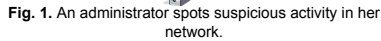


High-Fidelity Secure Network Provenance

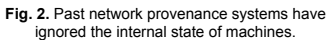
Computer and Information Science Department, University of Oregon



Network Provenance

Network Provenance

Without this host context, it is impossible to fully explain the cause of these network events.



Host-Layer Provenance

Fig. 3. An example provenance history for network message *m*.

Fig. 4. Host A signs message m prior to exiting the system; Host B verifies the presence of A's signature prior to accepting message m

Software-Defined Network Provenance

In future work, we intend to reconcile this network-layer provenance with the host-based approach, creating provenance of exquisite detail.

Conclusion

OSIRIS

For further information, contact
Tyler Nichols (tnichols@cs.uoregon.edu).