

- Semi-Structured Log Files
 - Created by printf statement in server processes:
 - Web, database, network file servers, operating system components
 - Human-readable text format files
 - Very rarely actually read by a human
 - Can store/archive in binary or compressed format
 - Format published or “defined” by code
 - Can be very difficult to parse
- Apache Web Server Log Format
 - Components:
 - First component - Client IP address
 - Second component - User identity from remote machine (hyphen means not available)
 - Third component - User identity from local logon (hyphen means not available)
 - Fourth component - Request time
 - Fifth component - Client request
 - Request method (e.g., Get, Post, etc.)
 - Endpoint (a Uniform Resource Identifier)
 - Client protocol version
 - Sixth component - Status code the server sent back to the client
 - OK responses (2xx), others: 3xx, 4xx, 5xx
 - Size of the object returned to client
 - “-“ if no content returned, or sometimes 0
- Lab: Explore Web Server Access Log
- Some Log Analysis Questions
 - Overall
 - What are the statistics for content being returned?
 - Temporal
 - How many unique hosts per day?