```
user id event_type
timestamp
2025-08-18 11:09:02.121384 user 7
                                   logout
2025-08-18 10:55:02.121384 UNKNOVlogin
2025-08-18 11:44:02.121384 user 1
                                   logout
2025-08-18 11:37:02.121384 user_5
                                   file access
2025-08-18 10:28:02.121384 user_3
                                   logout
2025-08-18 10:42:02.121384 user 6
                                   login
2025-08-18 10:30:02.121384 user 3
                                   file access
2025-08-18 10:59:02.121384 user 8
                                   email sent
2025-08-18 11:15:02.121384 user 6
                                   email sent
2025-08-18 10:41:02.121384 user 4
                                   network connection
2025-08-18 11:31:02.121384 user 8
                                   email sent
2025-08-18 11:40:02.121384 user 5
                                   logout
2025-08-18 11:27:02.121384 user 9
                                   email sent
2025-08-18 10:56:02.121384 user_6
                                   logout
2025-08-18 11:38:02.121384 user 1
                                   logout
2025-08-18 10:39:02.121384 user 9
                                   login
2025-08-18 10:57:02.121384 user 7
                                   email sent
2025-08-18 11:12:02.121384 UNKNOVlogout
2025-08-18 11:08:02.121384 user 1
                                   email sent
2025-08-18 11:03:02.121384 user 10 network connection
2025-08-18 10:17:02.121384 user 3
                                   email sent
2025-08-18 11:10:02.121384 user 1
                                   logout
2025-08-18 11:17:02.121384 user 2
                                   login
2025-08-18 10:48:02.121384 user 9
                                   logout
2025-08-18 10:52:02.121384 user 4
                                   network connection
2025-08-18 11:33:02.121384 user 6
                                   login
2025-08-18 10:51:02.121384 user 3
                                   logout
2025-08-18 11:29:02.121384 user 1
                                   logout
2025-08-18 10:29:02.121384 UNKNOVfile access
2025-08-18 10:14:02.121384 user 10 file access
2025-08-18 10:17:02.121384 UNKNOvemail sent
2025-08-18 11:39:02.121384 user 5 network connection
2025-08-18 11:23:02.121384 user_10 file_access
2025-08-18 11:06:02.121384 user 10 logout
2025-08-18 11:13:02.121384 user 2
                                   file access
2025-08-18 10:40:02.121384 user 5
                                   file access
2025-08-18 11:27:02.121384 UNKNOVlogout
2025-08-18 10:37:02.121384 user 7
                                   network connection
2025-08-18 10:09:02.121384 user_7
                                   logout
2025-08-18 10:23:02.121384 user_3
                                   file access
2025-08-18 11:16:02.121384 user 5
                                   network connection
2025-08-18 10:56:02.121384 user 10 network connection
2025-08-18 10:34:02.121384 user 3
                                   login
2025-08-18 11:12:02.121384 UNKNOVfile access
2025-08-18 10:46:02.121384 user 3
                                   file access
2025-08-18 10:44:02.121384 user 1
                                   login
2025-08-18 10:28:02.121384 user 8
                                   logout
2025-08-18 10:47:02.121384 user 10 logout
2025-08-18 11:00:02.121384 user 2
                                   email sent
2025-08-18 10:53:02.121384 user_3
                                   network connection
2025-08-18 11:05:02.121384 user 8
                                   login
2025-08-18 11:14:02.121384 user 6
                                   logout
```

```
2025-08-18 11:05:02.121384 user 4 network connection
2025-08-18 11:45:02.121384 UNKNOVfile access
2025-08-18 10:49:02.121384 user 2
                                   network connection
2025-08-18 10:36:02.121384 user_7
                                   file access
2025-08-18 11:13:02.121384 user 2
                                   login
2025-08-18 10:54:02.121384 user_5
                                   email_sent
2025-08-18 11:23:02.121384 user 4
                                   file access
2025-08-18 11:45:02.121384 UNKNOVnetwork connection
2025-08-18 10:25:02.121384 user 6
                                   login
2025-08-18 10:07:02.121384 user 7
                                   email sent
2025-08-18 11:30:02.121384 user 9
                                   network connection
2025-08-18 11:19:02.121384 user 3
                                   network connection
2025-08-18 10:16:02.121384 user 6
                                   file access
2025-08-18 11:00:02.121384 user 6
                                   logout
2025-08-18 10:33:02.121384 user 3
                                   login
2025-08-18 11:15:02.121384 user 4
                                   network connection
2025-08-18 10:33:02.121384 user 9
                                   file access
2025-08-18 11:00:02.121384 user 3
                                   email sent
2025-08-18 11:14:02.121384 user 7
                                   file access
2025-08-18 10:08:02.121384 user 2
                                   login
2025-08-18 11:29:02.121384 user 6
                                   email sent
2025-08-18 10:27:02.121384 user_2
                                   logout
2025-08-18 11:16:02.121384 user_10 network_connection
2025-08-18 11:29:02.121384 user 3
                                   login
2025-08-18 11:26:02.121384 user 6
                                   logout
2025-08-18 11:28:02.121384 user 3
                                   logout
2025-08-18 10:57:02.121384 user 3
                                   file access
2025-08-18 10:57:02.121384 user 8
                                   network connection
2025-08-18 11:12:02.121384 UNKNOVlogin
2025-08-18 10:41:02.121384 user 6
                                   network connection
2025-08-18 11:15:02.121384 user 3
                                   email sent
2025-08-18 11:29:02.121384 user 3
                                   network connection
2025-08-18 11:01:02.121384 user 4
                                   file access
2025-08-18 11:09:02.121384 user 10 network connection
2025-08-18 10:12:02.121384 user 7
                                   login
2025-08-18 11:17:02.121384 user 1
                                   network connection
2025-08-18 11:26:02.121384 user 7
                                   network connection
2025-08-18 11:27:02.121384 user 5
                                   email sent
2025-08-18 11:14:02.121384 user 5
                                   login
2025-08-18 10:35:02.121384 user_3
                                   file_access
2025-08-18 10:31:02.121384 user_4
                                   login
2025-08-18 11:08:02.121384 user 7
                                   network connection
2025-08-18 10:13:02.121384 user 4
                                   login
2025-08-18 11:33:02.121384 UNKNOVfile access
2025-08-18 11:12:02.121384 user_5
                                   file_access
2025-08-18 10:14:02.121384 user 5
                                   network connection
2025-08-18 10:07:02.121384 user 2
                                   email sent
2025-08-18 11:45:02.121384 user 8
                                   login
```

message

logout event.

User logged in from IP 192.168.1.54

logout event.

Accessed sensitive document path: /home/user_8/docs/private_file_4.txt logout event.

User logged in from IP 192.168.1.144

Accessed sensitive document path: /home/user 8/docs/private file 4.txt

Email sent from Jane Doe to John Doe about Project X and the London office.

Email sent from Jane Doe to John Doe about Project X and the London office.

UNKNOWN

Email sent from Jane Doe to John Doe about Project X and the London office. logout event.

Email sent from Jane Doe to John Doe about Project X and the London office. logout event.

logout event.

User logged in from IP 192.168.1.104

Email sent from Jane Doe to John Doe about Project X and the London office. logout event.

Email sent from Jane Doe to John Doe about Project X and the London office.

Connection to www.suspicious-site-2.com on port 8080

Email sent from Jane Doe to John Doe about Project X and the London office. logout event.

User logged in from IP 192.168.1.245

logout event.

Connection to www.suspicious-site-4.com on port 8080

User logged in from IP 192.168.1.203

logout event.

logout event.

Accessed sensitive document path: /home/user_8/docs/private_file_4.txt

Accessed sensitive document path: /home/user_8/docs/private_file_5.txt

Email sent from Jane Doe to John Doe about Project \boldsymbol{X} and the London office.

Connection to www.suspicious-site-1.com on port 8080

Accessed sensitive document path: /home/user_8/docs/private_file_5.txt logout event.

Accessed sensitive document path: /home/user_8/docs/private_file_2.txt Accessed sensitive document path: /home/user_8/docs/private_file_5.txt logout event.

Connection to www.suspicious-site-2.com on port 8080 logout event.

Accessed sensitive document path: /home/user_8/docs/private_file_5.txt

Connection to www.suspicious-site-1.com on port 8080

Connection to www.suspicious-site-5.com on port 8080

User logged in from IP 192.168.1.11

Accessed sensitive document path: /home/user_8/docs/private_file_3.txt Accessed sensitive document path: /home/user_8/docs/private_file_4.txt User logged in from IP 192.168.1.86

logout event.

logout event.

Email sent from Jane Doe to John Doe about Project X and the London office.

Connection to www.suspicious-site-5.com on port 8080

User logged in from IP 192.168.1.35

logout event.

Connection to www.suspicious-site-3.com on port 8080

Accessed sensitive document path: /home/user 8/docs/private file 1.txt

Connection to www.suspicious-site-4.com on port 8080

Accessed sensitive document path: /home/user_8/docs/private_file_1.txt

User logged in from IP 192.168.1.161

Email sent from Jane Doe to John Doe about Project X and the London office.

Accessed sensitive document path: /home/user 8/docs/private file 5.txt

Connection to www.suspicious-site-4.com on port 8080

User logged in from IP 192.168.1.142

Email sent from Jane Doe to John Doe about Project X and the London office.

Connection to www.suspicious-site-4.com on port 8080

Connection to www.suspicious-site-2.com on port 8080

UNKNOWN

logout event.

User logged in from IP 192.168.1.180

Connection to www.suspicious-site-1.com on port 8080

UNKNOWN

Email sent from Jane Doe to John Doe about Project X and the London office.

Accessed sensitive document path: /home/user 8/docs/private file 3.txt

User logged in from IP 192.168.1.4

Email sent from Jane Doe to John Doe about Project X and the London office.

logout event.

UNKNOWN

User logged in from IP 192.168.1.27

logout event.

logout event.

UNKNOWN

Connection to www.suspicious-site-4.com on port 8080

User logged in from IP 192.168.1.243

Connection to www.suspicious-site-2.com on port 8080

Email sent from Jane Doe to John Doe about Project X and the London office.

Connection to www.suspicious-site-3.com on port 8080

Accessed sensitive document path: /home/user 8/docs/private file 5.txt

Connection to www.suspicious-site-4.com on port 8080

User logged in from IP 192.168.1.146

Connection to www.suspicious-site-2.com on port 8080

Connection to www.suspicious-site-3.com on port 8080

Email sent from Jane Doe to John Doe about Project X and the London office.

User logged in from IP 192.168.1.254

Accessed sensitive document path: /home/user_8/docs/private_file_3.txt

User logged in from IP 192.168.1.184

Connection to www.suspicious-site-1.com on port 8080

User logged in from IP 192.168.1.108

Accessed sensitive document path: /home/user_8/docs/private_file_1.txt

Accessed sensitive document path: /home/user_8/docs/private_file_1.txt

Connection to www.suspicious-site-5.com on port 8080

Email sent from Jane Doe to John Doe about Project X and the London office.

User logged in from IP 192.168.1.178