

MANAGING USERS AND PERMISSIONS IN SIEM (SPLUNK)

Objective: To implement role-based access control (RBAC) in Splunk Enterprise, create roles, and manage user permissions for secure and efficient access management

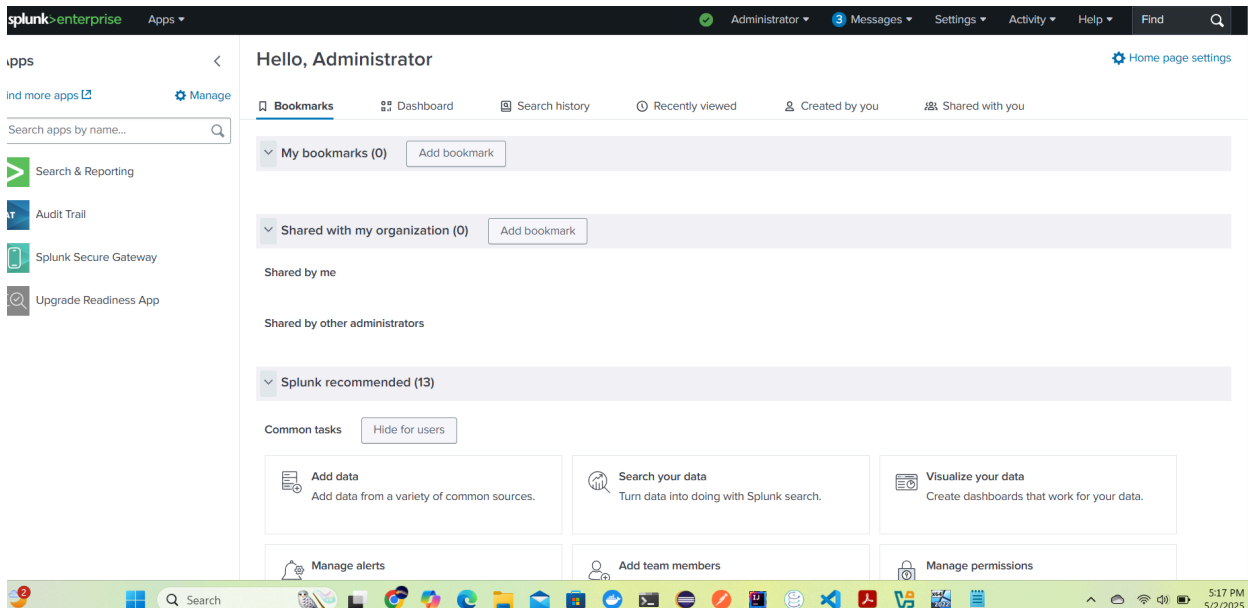
Tools Used: Splunk version 9.3.1, Windows OS

Prerequisites: Splunk Enterprise should already be installed

By following these steps, I successfully implemented role-based access control (RBAC) in Splunk Enterprise. This enhances security, ensures compliance, and simplifies user permission management, enabling secure and efficient data access control.

Steps to be followed:

1. Created a role
2. Created a new user



New Role

Name ⓘ Security Analyst x

Inheritance Capabilities Indexes Restrictions Resources

Select roles from which this role inherits capabilities and indexes. Inherited capabilities and indexes cannot be deselected. If you select multiple roles, this role inherits capabilities and indexes from all of them.

<input type="checkbox"/>	Role name ▼
<input type="checkbox"/>	admin
<input type="checkbox"/>	can_delete
<input type="checkbox"/>	power
<input type="checkbox"/>	splunk-system-role
<input type="checkbox"/>	user

Cancel Create Role



New Role

Name ⓘ ⓘ Security Analyst

Inheritance Capabilities Indexes Restrictions Resources

Select capabilities for this role.

<input type="checkbox"/>	Capability name ▼	Inheritance
<input type="checkbox"/>	accelerate_datamodel	
<input type="checkbox"/>	accelerate_search	
<input type="checkbox"/>	admin_all_objects	
<input type="checkbox"/>	apps_backup	
<input type="checkbox"/>	apps_restore	
<input type="checkbox"/>	capture_ingest_events	
<input type="checkbox"/>	change_audit	
<input type="checkbox"/>	change_authentication	
<input type="checkbox"/>	change_own_password	
<input type="checkbox"/>	create_external_lookup	

Cancel Create Role

New Role

Name * ⓘSecurity Analyst

Inheritance

Capabilities

Indexes

Restrictions

Resources

Select capabilities for this role.

<input type="checkbox"/>	Capability name ▼	Inheritance
<input checked="" type="checkbox"/>	edit_log_alert_event	native
<input checked="" type="checkbox"/>	list_storage_passwords	native
<input checked="" type="checkbox"/>	run_msearch	native

Cancel

Create Role

Roles

New Role

You can search keywords like role name, application name and capability name...

Showing 1-6 of 6 Roles

Name ▲	Native Capabilities	Inherited Capabilities	Default App ↕	⚙
admin	121	41		I
can_delete	6	0		I
power	13	28		I
security analyst	3	0		I
splunk-system-role	0	162		I
user	28	0		I

Showing 1-6 of 6 Roles

Step 2: Created a new user

Roles

You can search keywords like role name, application name and capability name...

Showing 1-6 of 6 Roles

Name	Native Capabilities	Inherited Capabilities
admin	121	41
can_delete	6	0
power	13	28
security analyst	3	0
splunk-system-role	0	162
user	28	0

Showing 1-6 of 6 Roles

Search settings...

Add Data

Monitoring Console

KNOWLEDGE

Searches, reports, and alerts

Data models

Event types

Tags

Fields

Lookups

User interface

Alert actions

Advanced search

All configurations

SYSTEM

Server settings

Server controls

Health report manager

Instrumentation

Licensing

Workload management

Mobile settings

DATA

Data inputs

Forwarding and receiving

Indexes

Report acceleration summaries

Source types

Ingest actions

DISTRIBUTED ENVIRONMENT

Forwarder management

Indexer clustering

Federation

Distributed search

USERS AND AUTHENTICATION

Roles

Users

Tokens

Password management

Authentication methods

Users / New user

Name

Full name

Optional

Email address

janefrances

Optional

Set password

.....

New password

Confirm password

Confirm new password

Password requirements

Must contain at least 8 character(s)

Time zone

Select...

Default app

launcher (Home)

Assign roles

Available item(s)

0/5 Selected

Selected item(s)

0/1 Selected

Cancel

Create

Confirm password

Confirm new password

Password requirements [?](#)

✓ Must contain at least 8 character(s)

Time zone [?](#) (GMT-05:00) Eastern Time (US & Canada) ▼

Default app [?](#) launcher (Home) ▼

Assign roles [?](#)

☒ Available item(s)
1/5 Selected

☐ admin
☐ can_delete
☐ power
☒ security analyst
☐ splunk-system-role

☐ Selected item(s)
0/1 Selected
☐ user

Cancel Create

Users

New User

Search via role, application, or capability name

Showing 1-2 of 2 Users

Name	Authentication system	Full name	Email address	Time zone	Default app	Default app inherited from	Roles	Last login	Status	
jane cordis	Splunk	Jane frances Nwachukwu	jane frances.nwachukwu2@gmail.com	America/New_York	launcher	system	user		Active	
jane frances	Splunk	Administrator	changeme@example.com	America/New_York	launcher	system	adm...	5/2/2025, 5:07:49 PM	Active	

Showing 1-2 of 2 Users

Auditing Logs of Windows and Splunk

Save As ▾ Create Table View Close

Last 24 hours ▾

Job Smart Mode

Timeline format — Zoom Out + Zoom to Selection x Deselect

1 hour per column

[< Prev](#)
[1](#)
[2](#)
[3](#)
[4](#)
[5](#)
[6](#)
[7](#)
[8](#)
[...](#)
[Next >](#)

☰ All Fields

a sourcetype 1

```
# isdir 2
```

a user 4

+ Extract New Fields

	Time	Event
>	5/2/25 7:12:16.317 PM	Audit:[timestamp=05-02-2025 19:12:16.317, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:12:14.623 PM	Audit:[timestamp=05-02-2025 19:12:14.623, user=janefrances, action=list_health, info=granted object="splunkd" operation=list, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:12:13.317 PM	Audit:[timestamp=05-02-2025 19:12:13.317, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:12:10.323 PM	Audit:[timestamp=05-02-2025 19:12:10.323, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25	Audit:[timestamp=05-02-2025 19:12:07.608, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1]
1	Time	Event
>	5/2/25 7:12:07.608 PM	Audit:[timestamp=05-02-2025 19:12:07.608, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:12:05.612 PM	Audit:[timestamp=05-02-2025 19:12:05.612, user=janefrances, action=list_health, info=granted object="splunkd" operation=list, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:12:04.610 PM	Audit:[timestamp=05-02-2025 19:12:04.610, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:12:01.612 PM	Audit:[timestamp=05-02-2025 19:12:01.612, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:11:58.606 PM	Audit:[timestamp=05-02-2025 19:11:58.606, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:11:55.609 PM	Audit:[timestamp=05-02-2025 19:11:55.609, user=janefrances, action=search, info=granted REST: /search/jobs/rt_md_1746227474.56, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:11:55.609 PM	Audit:[timestamp=05-02-2025 19:11:55.609, user=janefrances, action=list_health, info=granted object="splunkd" operation=list, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 7:11:53.099 PM	Audit:[timestamp=05-02-2025 19:11:53.099, user=janefrances, action=search, info=bad_request, search_id='rt_md_1746227406.55', has_error_warn=true, full_y_completed_search=false, total_run_time=84.16, event_count=0, result_count=0, available_count=0, scan_count=0, drop_count=0, exec_time=1746227407, api_et=N/A, api_ltl=N/A, api_index_et=N/A, api_index_ltl=N/A, search_et=N/A, search_ltl=N/A, is_realtime=1, savedsearch_name='', search_startup_time='581', is_sprjob=false, is_sp12_search=false, is_flex_search=false, scenarios='', rate_limit_retry_enabled=false, dispatch_artifact_bytes=114688, status_csv_byt=4096, is_fss3=false, is_fsas1=false, acceleration_id='3E7BC679-D8F0-4EF9-A4E0-245D2B8DBBAB_search_janefrances_d79d8ecd779a2d3', app='search', prove_name='UI:Search', mode='RT', is_proxied=false, duration.command.search.index=0, invocations.command.search.index.bucketcache.hit=0, duration.command.s.e.a.r.c.h.index.bucketcache.hit=0, invocations.command.search.index.bucketcache.miss=0, duration.command.search.index.bucketcache.miss=0, invocations.c.m.a.n.d.s.e.a.r.c.h.index.bucketcache.error=0, duration.command.search.rawdata=0, invocations.command.search.rawdata.bucketcache.hit=0, duration.command.search.r.a.w.d.a.t.a.bucketcache.hit=0, invocations.command.search.rawdata.bucketcache.miss=0, duration.command.search.rawdata.bucketcache.miss=0, invocations.c.m.a.n.d.s.e.a.r.c.h.rawdata.bucketcache.error=0, roles='admin+power+user', search=' metadata type=sourcetypes search totalCount > 0', is_federated_search=0, is

index=_internal

Last 24 hours

67,442 events (5/1/25 7:00:00.000 PM to 5/2/25 7:18:48.000 PM)No Event Sampling

JobPauseRefreshDownloadSmart Mode

Events (67,442)PatternsStatisticsVisualization

Timeline formatZoom OutZoom to SelectionDeselect

1 hour per column



FormatShow: 20 Per PageView: List

Prev12345678...Next

< Hide FieldsAll Fields

SELECTED FIELDS

host 1source 27sourcetype 23

INTERESTING FIELDS

bytes 100+component 100+date_hour 12date_mday 2date_minute 60date_month 1date_second 60date_wday 2date_second 60date_wday 2date_year 1date_zone 3event_message 100+group 47index 1linecount 5log_level 4name 51punct 100+series 100+splunk_server 1timeendpos 11timestartpos 9

476 more fields

+ Extract New Fields

i	Time	Event
>	5/2/25 7:18:45.357 PM	<div><div>{ [-]</div><div>attr: { [+]</div><div></div><div>c: WTCHKPT</div><div>ctx: Checkpointer</div><div>id: 22430</div><div>msg: WiredTiger message</div><div>s: I</div><div>t: { [+]</div><div></div><div>}</div><div>Show as raw text</div><div>host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\mongod.log sourcetype = mongod</div></div>
>	5/2/25	{ [-]
>	5/2/25 7:18:45.102 PM	<div><div>{ [-]</div><div>code: 200</div><div>durationMS: 7.504</div><div>expectedCode: 200</div><div>hostname: CYPRIAN-HOME</div><div>level: INFO</div><div>location: splunkmgmtclient/client.go:186</div><div>message: request to splunk server succeeded</div><div>operation: GetConfStanza</div><div>requestURL: https://127.0.0.1:8089/services/configs/conf-server/teleport_supervisor?output_mode=json</div><div>service: identity</div><div>time: 2025-05-02T23:18:45.102Z</div><div>}</div><div>Show as raw text</div><div>host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\sup-pkg-identity-stdout.log sourcetype = sup-pkg-identity-stdout-too_small</div></div>
>	5/2/25 7:18:45.098 PM	<div>127.0.0.1 - splunk-system-user [02/May/2025:19:18:45.098 -0400] "GET /services/configs/conf-server/teleport_supervisor?output_mode=json HTTP/1.1" 200 1391 "-" "Go-http-client/1.1" - - - 4ms</div> <div>host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\splunkd_access.log sourcetype = splunkd_access</div>
>	5/2/25 7:18:44.626 PM	<div>127.0.0.1 - janefrances [02/May/2025:19:18:44.626 -0400] "GET /en-US/splunkd/_raw/services/server/health/splunkd?output_mode=json&=1746227474213 HTTP/1.1" 200 795 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36" - 0cb76be46fa8c043cc2b50af834a53c0 2ms</div> <div>host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\splunkd_ui_access.log sourcetype = splunkd_ui_access</div>
>	5/2/25 7:18:38.053 PM	<div>127.0.0.1 - janefrances [02/May/2025:19:18:38.053 -0400] "GET /en-US/splunkd/_raw/services/NS/nobody/search/search/v2/jobs/1746227917.61/events?output_mode=json&offset=0&count=20&segmentation=full&max_lines=5&field_list=host%2Csource%2Csourcetype%2C_raw%2C_time%2C_audit%2C_decoration%2Ceventtype%2C_eventtype_color%2C_linecount%2C_fulllinecount%2C_icon%2Ctag%2Cindex&truncation_mode=abstract&=1746227474212 HTTP/1.1" 200 83 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36" - 0cb76be46fa8c043cc2b50af834a53c0 9ms</div> <div>host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\splunkd_ui_access.log sourcetype = splunkd_ui_access</div>

New Search

Save As Create Table View Close

index=main OR index=_audit OR index=_internal

Last 24 hours

✓ 96,906 events (5/1/25 8:00:00.000 PM to 5/2/25 8:06:20.000 PM) No Event Sampling

Job II Smart Mode

Events (96,906) Patterns Statistics Visualization



Format Show: 20 Per Page View: List < Prev 1 2 3 4 5 6 7 8 ... Next >

< Hide Fields

All Fields

SELECTED FIELDS

a host 1

a source 40

a sourcetype 36

INTERESTING FIELDS

a component 100+

date_hour 12

date_mday 3

date_minute 60

date_month 1

date_second 60

a date_montn 1

date_second 60

a date_wday 3

date_year 1

date_zone 3

a event_message 100+

a group 47

a index 2

linecount 6

a log_level 4

a name 53

a punct 100+

a series 100+

a splunk_server 1

timeendpos 11

starttimepos 9

a user 7

473 more fields

+ Extract New Fields

i	Time	Event
>	5/2/25 8:06:19.484 PM	Audit:[timestamp=05-02-2025 20:06:19.484, user=janefrances, action=list_health, info=granted object="splunkd" operation=list, cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 8:06:19.484 PM	127.0.0.1 - janefrances [02/May/2025:20:06:19.484 -0400] "GET /en-US/splunkd/_raw/services/server/health/splunkd?output_mode=json&_=1746229999047 HTTP/1.1" 200 795 "-" Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36 - 0cb76be46fa8c043cc2b50af834a53c0 1ms host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\splunkd_ui_access.log sourcetype = splunkd_ui_access
>	5/2/25 8:06:19.363 PM	127.0.0.1 - janefrances [02/May/2025:20:06:19.363 -0400] "GET /en-US/splunkd/_raw/services/messages?output_mode=json&sort_key=timeCreated_epochSecs&sort_dir=desc&count=1000&_=1746229999046 HTTP/1.1" 200 3586 "-" Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36 - 0cb76be46fa8c043cc2b50af834a53c0 1ms host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\splunkd_ui_access.log sourcetype = splunkd_ui_access

i	Time	Event
>	5/2/25 8:06:18.541 PM	127.0.0.1 - janefrances [02/May/2025:20:06:18.541 -0400] "GET /en-US/splunkd/_raw/services/search/shelper?output_mode=json&snippet=true&snippetEmbedJS=false&namespace=search&search=search%20index%3Dmain%20OR%20index%3D_audit%20OR%20index%3D_internal&useTypeahead=true&showCommandHelp=true&showCommandHistory=true&showFieldInfo=false&_=1746229999045 HTTP/1.1" 200 31447 "-" Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36 - 0cb76be46fa8c043cc2b50af834a53c0 8ms host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\splunkd_ui_access.log sourcetype = splunkd_ui_access
>	5/2/25 8:06:16.693 PM	127.0.0.1 - janefrances [02/May/2025:20:06:16.693 -0400] "GET /en-US/splunkd/_raw/services/search/shelper?output_mode=json&snippet=true&snippetEmbedJS=false&namespace=search&search=search%20*useTypeahead=true&showCommandHelp=true&showCommandHistory=true&showFieldInfo=false&_=1746229999044 HTTP/1.1" 200 23865 "-" Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36 - 0cb76be46fa8c043cc2b50af834a53c0 2ms host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\splunkd_ui_access.log sourcetype = splunkd_ui_access
>	5/2/25 8:06:16.190 PM	Audit:[timestamp=05-02-2025 20:06:16.190, user=janefrances, action=search, info=granted , search_id='ta_1746230776.97', search='typeahead prefix="ev" max_time="1" count="50" use_cache="1", autojoin="0", buckets=0, ttl=10, max_count=50, maxtime=8640000, enable_lookups="0", extra_fields="", apiStartTime="MIN_TIME", apiEndTime="MIN_TIME", apiIndexStartTime="MIN_TIME", apiIndexEndTime="MIN_TIME", savedsearch_name="", search_type="typeahead", is_proxied=false, app="search", provenance="N/A", mode="historical", cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25 8:06:16.186 PM	127.0.0.1 - janefrances [02/May/2025:20:06:16.186 -0400] "GET /en-US/splunkd/_raw/services/search/shelper?output_mode=json&snippet=true&snippetEmbedJS=false&namespace=search&search=search%20ev&useTypeahead=true&showCommandHelp=true&showCommandHistory=true&showFieldInfo=false&_=1746229999043 HTTP/1.1" 200 24573 "-" Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36 - 0cb76be46fa8c043cc2b50af834a53c0 500ms host = CYPRIAN-HOME source = C:\Program Files\Splunk\var\log\splunk\splunkd_ui_access.log sourcetype = splunkd_ui_access
>	5/2/25 8:06:15.668 PM	Audit:[timestamp=05-02-2025 20:06:15.668, user=janefrances, action=search, info=granted , search_id='ta_1746230775.96', search='typeahead prefix="even" max_time="1" count="50" use_cache="1", autojoin="0", buckets=0, ttl=10, max_count=50, maxtime=8640000, enable_lookups="0", extra_fields="", apiStartTime="MIN_TIME", apiEndTime="MIN_TIME", apiIndexStartTime="MIN_TIME", apiIndexEndTime="MIN_TIME", savedsearch_name="", search_type="typeahead", is_proxied=false, app="search", provenance="N/A", mode="historical", cap=1] host = CYPRIAN-HOME source = audittrail sourcetype = audittrail
>	5/2/25	05-02-2025 20:06:15.657 -0400 INFO SearchPipelineRun [9436 TcpChannelThread] - Search pipeline executed: sid=, pipeline=history head search dedup

New Search

Save As Create Table View Close

index=main OR index=_audit OR index=_internal

Last 24 hours

(EventCode=4624)

| table _time host Account_Name Source_Network_Address Destination_Network_Address Logon_Type Logon_Process Authentication_Package_Name

| sort - _time

✓ 1 event (5/1/25 8:00:00.000 PM to 5/2/25 8:09:44.000 PM) No Event Sampling

Job II Smart Mode

Events Patterns Statistics (1) Visualization

Show: 20 Per Page Format Preview: On

_time	host	Account_Name	Source_Network_Address	Destination_Network_Address	Logon_Type	Logon_Process	Authentication_Package_Name
2025-05-02 20:09:24.488	CYPRIAN-HOME						

New Search

Save AsCreate Table ViewClose

index=main OR index=_audit OR index=_internal
(EventCode=4624)
| table _time host Account_Name Source_Network_Address Destination_Network_Address Logon_Type Logon_Process Authentication_Package_Name
| sort - _time

Last 24 hours

✓ 4 events (5/1/25 8:00:00.000 PM to 5/2/25 8:13:00.000 PM) No Event SamplingJob||↩️🖨️⬇️🔍 Smart Mode

EventsPatternsStatistics (4)Visualization

Show: 20 Per PageFormatPreview: On

_time	host	Account_Name	Source_Network_Address	Destination_Network_Address	Logon_Type	Logon_Process	Authentication_Package_Name
2025-05-02 20:09:53.108	CYPRIAN-HOME						
2025-05-02 20:09:53.089	CYPRIAN-HOME						
2025-05-02 20:09:44.882	CYPRIAN-HOME						
2025-05-02 20:09:24.488	CYPRIAN-HOME						

Step 2: Created a search for user logins and sorted and counted by username

New Search

Save AsCreate Table ViewClose

index=_audit | stats count by user | sort -count

Last 24 hours

✓ 16,797 events (5/1/25 8:00:00.000 PM to 5/2/25 8:35:06.000 PM) No Event SamplingJob||↩️🖨️⬇️🔍 Smart Mode

EventsPatternsStatistics (4)Visualization

Show: 20 Per PageFormatPreview: On

user	count
janefrance	1
janefrances	8873
n/a	7717
splunk-system-user	206

Step 3: Wrote the SPL for detecting license restriction errors

New Search

Save As

Create Table View

Close

index=main OR index=_internal sourcetype=Splunkd

| search "LicenseRestriction"

| table _time host sourcetype _raw

| sort - _time

Last 24 hours

Q

0 events (5/1/25 8:00:00.000 PM to 5/2/25 8:50:00.000 PM)

No Event Sampling

Job

||

Smart Mode

Events

Patterns

Statistics (0)

Visualization

Show: 20 Per Page

Format

Preview: On

No results found. Try expanding the time range.

Step 4: Wrote the SPL for finding HTTP 202 and 404

New Search

Save As

Create Table View

Close

index=main OR index=_internal sourcetype=Splunkd_access OR sourcetype=Splunkd_ui_access

| search "HTTP/1.1\" 200"

| table _time host user status_code uri

| sort - _time

Last 24 hours

Q

5,734 events (5/1/25 8:00:00.000 PM to 5/2/25 8:52:00.000 PM)

No Event Sampling

Job

||

Smart Mode

Events

Patterns

Statistics (5,734)

Visualization

Show: 20 Per Page

Format

Preview: On

< Prev

1

2

3

4

5

6

7

8

...

Next >

_time	host	user	status_code	uri
2025-05-02 20:51:57.403	CYPRIAN-HOME	janefrances		/en-US/splunkd/_raw/services/search/shelper?output_mode=json&snippet=true&snippetEmbedJS=false&namespace=search&search=search%20index%3Dmain%20OR%20index%3D_internal%20sourcetype%3DSplunkd_access%20_time&useTypeahead=true&showCommandHelp=true&showCommandHistory=true&showFieldInfo=false&_s=1746229999473
2025-05-02 20:51:49.484	CYPRIAN-HOME	janefrances		/en-US/splunkd/_raw/services/server/health/splunkd?output_mode=json&_s=1746229999472
2025-05-02 20:51:46.847	CYPRIAN-HOME	janefrances		/en-US/splunkd/_raw/servicesNS/nobody/search/search/v2/jobs/1746233400.119/control
2025-05-02 20:51:45.098	CYPRIAN-HOME	splunk-system-user		/services/configs/conf-server/teleport_supervisor?output_mode=json
2025-05-02 20:51:39.607	CYPRIAN-HOME	janefrances		/en-US/splunkd/_raw/services/server/health/splunkd?output_mode=json&_s=1746229999471

4.2 Searched the below query in the search box to troubleshoot web server or Splunk UI issues by analyzing patterns of 404 errors:

New Search

Save As ▾ Create Table View Close

```
index=main OR index=_internal sourcetype=Splunkd_access OR sourcetype=Splunkd_ui_access
| search "HTTP/1.1\" 404"
| table _time host user status_code uri
| sort - _time
```

Last 24 hours ▾



✓ 33 events (5/1/25 8:00:00.000 PM to 5/2/25 8:54:17.000 PM) No Event Sampling ▾

Job ▾ || ■ → 🗑️ ⬇️ ? Smart Mode ▾

Events Patterns **Statistics (33)** Visualization

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_time ▾	host ▾	user ▾	status_code ▾	uri ▾
2025-05-02 19:53:19.130	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/janefrances/search/data/ui/prefs/search?output_mode=json&_id=174622998864
2025-05-02 19:11:14.327	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/janefrances/search/data/ui/prefs/search?output_mode=json&_id=1746227474090
2025-05-02 19:10:06.690	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/janefrances/search/data/ui/prefs/search?output_mode=json&_id=1746227406377
2025-05-02 17:12:57.425	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/nobody/splunk_instrumentation/janefrances/telemetry/general?output_mode=json
2025-05-02 17:12:56.999	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json
2025-05-02 17:08:26.775	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/nobody/splunk_instrumentation/janefrances/telemetry/general?output_mode=json
2025-05-02 17:08:26.252	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json
2025-05-01 22:36:45.468	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/nobody/splunk_instrumentation/janefrances/telemetry/general?output_mode=json
2025-05-01 22:36:45.191	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json
2025-05-02 19:11:14.327	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/janefrances/search/data/ui/prefs/search?output_mode=json&_id=1746227474090
2025-05-02 19:10:06.690	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/janefrances/search/data/ui/prefs/search?output_mode=json&_id=1746227406377
2025-05-02 17:12:57.425	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/nobody/splunk_instrumentation/janefrances/telemetry/general?output_mode=json
2025-05-02 17:12:56.999	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json
2025-05-02 17:08:26.775	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/nobody/splunk_instrumentation/janefrances/telemetry/general?output_mode=json
2025-05-02 17:08:26.252	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json
2025-05-01 22:36:45.468	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/nobody/splunk_instrumentation/janefrances/telemetry/general?output_mode=json
2025-05-01 22:36:45.191	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json
2025-05-01 22:33:56.478	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/nobody/splunk_instrumentation/janefrances/telemetry/general?output_mode=json
2025-05-01 22:33:55.883	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json
2025-05-01 22:30:31.490	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/janefrances/search/data/ui/prefs/search?output_mode=json&_id=1746153031210
2025-05-01 22:26:53.279	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/janefrances/search/data/ui/prefs/adddatamethods?output_mode=json&_id=1746152798700
2025-05-01 22:26:38.914	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/cluster_blaster_indexes/sh_indexes_manager/_new?output_mode=json&_id=1746152798677
2025-05-01 22:26:38.914	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json&_id=1746152798676
2025-05-01 22:26:38.901	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json&_id=1746152798673
2025-05-01 22:26:28.329	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/cluster_blaster_indexes/sh_indexes_manager/_new?output_mode=json&_id=1746152787973
2025-05-01 22:26:28.317	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json&_id=1746152787972
2025-05-01 22:26:28.311	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/services/dmc-conf/settings/settings?output_mode=json&_id=1746152787969
2025-05-01 22:22:43.598	CYPRIAN-HOME	janefrances		/en-US/splunkd/__raw/servicesNS/janefrances/search/data/ui/prefs/adddatamethods?output_mode=json&_id=1746152333855

Step 5: Wrote SPL for detecting other errors

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Last 24 hours ▾

Job ▾ || ■ ↗ 🖨️ ⬇️ 🔍 Smart Mode ▾

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time	host	sourcetype	raw
2025-05-02 19:10:30.058	CYPRIAN-HOME	splunkd	05-02-2025 19:10:30.058 -0400 ERROR AdminManager [3228 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-02 19:08:24.680	CYPRIAN-HOME	splunkd	05-02-2025 19:08:24.680 -0400 ERROR AdminManager [9376 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-02 17:43:31.900	CYPRIAN-HOME	splunkd	05-02-2025 17:43:31.900 -0400 ERROR AdminManager [11424 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-02 17:41:54.272	CYPRIAN-HOME	splunkd	05-02-2025 17:41:54.272 -0400 ERROR AdminHandler:AuthenticationHandler [10124 TcpChannelThread] - Cannot create user that already exists: janefrances
2025-05-02 17:41:54.268	CYPRIAN-HOME	splunkd	05-02-2025 17:41:54.268 -0400 ERROR AuthenticationManagerSplunk [10124 TcpChannelThread] - Cannot create user that already exists: janefrances
2025-05-02 17:43:31.900	CYPRIAN-HOME	splunkd	05-02-2025 17:31:54.316 -0400 ERROR AdminManager [3372 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-02 17:41:54.272	CYPRIAN-HOME	splunkd	05-02-2025 17:41:54.272 -0400 ERROR AdminHandler:AuthenticationHandler [10124 TcpChannelThread] - Cannot create user that already exists: janefrances
2025-05-02 17:41:54.268	CYPRIAN-HOME	splunkd	05-02-2025 17:41:54.268 -0400 ERROR AuthenticationManagerSplunk [10124 TcpChannelThread] - Cannot create user that already exists: janefrances
2025-05-02 17:31:54.316	CYPRIAN-HOME	splunkd	05-02-2025 17:31:54.316 -0400 ERROR AdminManager [3372 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-02 17:28:10.373	CYPRIAN-HOME	splunkd	05-02-2025 17:28:10.373 -0400 ERROR AdminManager [7152 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-02 17:19:26.843	CYPRIAN-HOME	splunkd	05-02-2025 17:19:26.843 -0400 ERROR AdminManager [18744 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-02 17:18:43.439	CYPRIAN-HOME	splunkd	05-02-2025 17:18:43.439 -0400 ERROR AdminManager [21596 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-02 17:10:18.780	CYPRIAN-HOME	splunkd	05-02-2025 17:10:18.780 -0400 ERROR AdminManager [17512 TcpChannelThread] - Argument "type" is not supported by this handler.
2025-05-01 22:26:53.750	CYPRIAN-HOME	splunkd	05-01-2025 22:26:53.750 -0400 ERROR Timeliner [12432 searchOrchestrator] - Failed to rm dir C:\Program Files\Splunk\var\run\splunk\dspatch\1746152810.30\buckets: 1 errors occurred, description of first error: [{operation:"failed to remove file", error:"The process cannot access the file because it is being used by another process.", file:"C:\Program Files\Splunk\var\run\splunk\dspatch\1746152810.30\buckets\1730433600.000\1733029200.000.csv"}]
2025-05-01 22:26:53.732	CYPRIAN-HOME	splunkd	05-01-2025 22:26:53.732 -0400 WARN SearchOrchestrator [12432 searchOrchestrator] - Could not cleanup timeliner buckets directory before search: 1 errors occurred, description of first error: [{operation:"failed to remove file", error:"The process cannot access the file because it is being used by another process.", file:"C:\Program Files\Splunk\var\run\splunk\dspatch\1746152810.30\buckets\1730433600.000\1733029200.000.csv"}]
2025-05-01 22:25:17.092	CYPRIAN-HOME	splunkd	05-01-2025 22:25:17.092 -0400 ERROR IndexConfig [16372 FilesystemOpExecutorWorker-0] - Asked to check if idx=practicesplunk is clustered, but that index does not exist on the system so is disabled