

## inputs.conf

```
[monitor://<PATH>]
host = google.com
sourcetype = google_access
crcSalt = <SOURCE>
initCrcLength = 256 bytes
#Cannot be less than 256 or more than 1048576
ignoreOlderthan = 1d
```

```
[root@ip-172-31-32-132 local]# cat inputs.conf
[monitor:///opt/monitor/file1.txt]
```

```
host=uf
index=main
sourcetype=secure_access
_TCP_ROUTING = indexer
```

```
[monitor:///opt/monitor/file2.txt]
host=uf
index=main
sourcetype=secure_access_linebreak
_TCP_ROUTING = indexer
```

```
#####
[root@ip-172-31-32-132 local]# cat outputs.conf
```

```
[tcpout:indexer]
server = 15.206.159.98:9997
[root@ip-172-31-32-132 local]#
```

```
[root@ip-172-31-32-132 monitor]#
[root@ip-172-31-32-132 monitor]# pwd
/opt/monitor
[root@ip-172-31-32-132 monitor]# ls
file1.txt transform.txt
[root@ip-172-31-32-132 monitor]#
[root@ip-172-31-32-132 monitor]# cat /opt/splunkforwarder/etc/system/local/inputs.conf
[monitor:///opt/monitor/file1.txt]
host=uf
index=main
sourcetype=secure_access
_TCP_ROUTING = indexer
```

```
[monitor:///opt/monitor/file2.txt]
host=uf
index=main
sourcetype=secure_access_linebreak
_TCP_ROUTING = indexer
```

```
[monitor:///opt/monitor/transform.txt]
host=uf
index=main
sourcetype=transform_rule
_TCP_ROUTING = indexer
[root@ip-172-31-32-132 monitor]#
[root@ip-172-31-32-132 monitor]#
[root@ip-172-31-32-132 monitor]#
```

## Props.conf

```
[secure_access]
SHOULD_LINEMERGE=false
LINE_BREAKER=(\r\n)+
BREAK_ONLY_BEFORE_DATE=null
NO_BINARY_CHECK=true
CHARSET=UTF-8
MAX_TIMESTAMP_LOOKAHEAD=50
TIME_FORMAT=%a %b %d %Y %H:%M:%S
TIME_PREFIX=^
TZ=Asia/Kolkata
description=this is for tutorial
```

```
[secure_access]
BREAK_ONLY_BEFORE_DATE =
DATETIME_CONFIG =
LINE_BREAKER = (\r\n)+
MAX_TIMESTAMP_LOOKAHEAD = 50
NO_BINARY_CHECK = true
SHOULD_LINEMERGE = false
TIME_FORMAT = %a %b %d %Y %H:%M:%S
TZ = Asia/Kolkata
category = Custom
description = this is for tutorial
 pulldown_type = true
```

```
[secure_access_linebreak]
BREAK_ONLY_BEFORE_DATE =
DATETIME_CONFIG =
LINE_BREAKER = ([\r\n]+)?(?=\w{3}\s\w{3}\s\d{2})
NO_BINARY_CHECK = true
SHOULD_LINEMERGE = false
category = Custom
pulldown_type = true
TRANSFORMS-rule1=renamemhost
```

```
TRANSFORMS-<class> = <transform_stanza_name>,
<transform_stanza_name2>
```

The screenshot shows the Splunk Transform Editor interface. At the top, there is a toolbar with options like 'Format', 'Show: 20 Per Page', and 'View: List'. Below the toolbar, there is a table with two columns: 'Time' and 'Event'. The table lists several log entries. One entry is highlighted with a red box, showing the transformed host value 'MAHEHAKULA'. The original host value 'uf' is also present in the table. The 'Event' column contains log messages related to failed SSH password attempts.

## transforms.conf

```
[renamemhost]
DEST_KEY = MetaData:Host
REGEX = .*
FORMAT = host::UniversalForwarder
##Renaming host name during parsing stage
```

```
[root@ip-172-31-38-148 local]#
[root@ip-172-31-38-148 local]# cat props.conf
[secure_access]
BREAK_ONLY_BEFORE_DATE =
DATETIME_CONFIG =
LINE_BREAKER = (\r\n)+
MAX_TIMESTAMP_LOOKAHEAD = 50
NO_BINARY_CHECK = true
SHOULD_LINEMERGE = false
TIME_FORMAT = %a %b %d %Y %H:%M:%S
TZ = Asia/Kolkata
category = Custom
description = this is for tutorial
 pulldown_type = true

[secure_access_linebreak]
BREAK_ONLY_BEFORE_DATE =
DATETIME_CONFIG =
LINE_BREAKER = ([\r\n]+)?(?=\w{3}\s\w{3}\s\d{2})
NO_BINARY_CHECK = true
SHOULD_LINEMERGE = false
category = Custom
pulldown_type = true
TRANSFORMS-rule1=renamemhost

[transform rule]
TRANSFORMS-rule1=renamemhost

[root@ip-172-31-38-148 local]#
[root@ip-172-31-38-148 local]# cat transforms.conf
[renamemhost]
DEST_KEY = MetaData:Host
REGEX = .*
FORMAT = host::MAHEHAKULA
[root@ip-172-31-38-148 local]#
[root@ip-172-31-38-148 local]# pwd
/opt/splunk/etc/apps/search/local
[root@ip-172-31-38-148 local]#
```

Fields	Time	Event
5	8/1/25 10:54:00 AM	> Thu Aug 01 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2
LDS	8/1/25 10:54:00 AM	> Thu Aug 01 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2 host = MAHEHAKULA source = /opt/monitor/file2.txt sourcetype = secure_access_linebreak
1	8/1/25 10:54:00 AM	> Thu Aug 01 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2 host = MAHEHAKULA source = /opt/monitor/file2.txt sourcetype = secure_access_linebreak
1	8/1/25 10:54:00 AM	> Thu Aug 01 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2 host = MAHEHAKULA source = /opt/monitor/file2.txt sourcetype = secure_access_linebreak
1	7/27/25 10:54:00 AM	> Thu Jul 27 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2 host = uf source = /opt/monitor/file2.txt sourcetype = secure_access_linebreak
1	7/27/25 10:54:00 AM	> Thu Jul 27 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2 host = uf source = /opt/monitor/file2.txt sourcetype = secure_access_linebreak
1	7/27/25 10:54:00 AM	> Thu Jul 27 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2 host = uf source = /opt/monitor/file2.txt sourcetype = secure_access_linebreak
1	7/27/25 10:54:00 AM	> Thu Jul 27 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2 host = uf source = /opt/monitor/file2.txt sourcetype = secure_access_linebreak
1	7/27/25 10:54:00 AM	> Thu Jul 27 2025 01:05:41 mailsrv sshd[4351]: Failed password for invalid user guest from 86.212.199.60 port 3771 ssh2 host = uf source = /opt/monitor/file2.txt sourcetype = secure_access_linebreak

- How data is processed in Splunk?
- Stages - Pipelines & Queues
- 
- How to add metadata Fields for all events in splunk?
- How to send redundant data to NullQueue?
- How to send data to a specific tcput group/indexer/group?
- HTTP event Collector -
  - Token Generation
  - Port configuration
  - send sample data to main index

- 4 phases
- input
  - parsing
  - indexing
  - searching

During Parsing phase

- Parsing queue → Parsing Pipeline → Agg queue → Merging Pipeline → Typing queue → Typing Pipeline → Index Queue → Index Pipeline

```
https://docs.splunk.com/Documentation/Splunk/9.4.2/Admin/Propsconf
https://docs.splunk.com/Documentation/Splunk/9.4.2/Admin/Inputsconf
https://docs.splunk.com/Documentation/Splunk/9.4.2/Admin/Transformsconf#transforms.conf
https://help.splunk.com/en/splunk-enterprise/search/spl-search-reference/9.1/time-format-variables-and-modifiers/date-and-time-format-variables
https://help.splunk.com/en/splunk-enterprise/get-started/get-data-in/9.3/get-data-with-http-event-collector/use-curl-to-manage-http-event-collector-tokens-events-and-services
```

```
outputs.conf
[tcpout:indexer]
server = 15.206.159.98:9997, idx2:9997, idx3:9997
```

**How to add metadata Fields for all events in splunk?**

```
##### INDEXER #####
props.conf
[default]
TRANSFORMS-appltoall = apply_to_all
```

```
transforms.conf
[apply_to_all]
REGEX =
FORMAT = processed_by::SplunkSessionIndexer1
WRITE_META = true
```

**To sent data to Null queue when ever there is an event with (Code=F)**

```
props.conf
[source::/opt/monitorlogs/nullQueueLogs.txt]
TRANSFORMS-nullQueue = send_to_nullqueue
```

```
transforms.conf
[send_to_nullqueue]
REGEX = Code=F
DEST_KEY = queue
FORMAT = nullQueue
```

**To sent data to a specific tcp group when ever there is an event with (Code=F)**

```
[source::/opt/monitorlogs/nullQueueLogs.txt]
TRANSFORMS-TCPGrp = send_to_Group
```

```
transforms.conf
[send_to_nullqueue]
REGEX = Code=F
DEST_KEY = _TCP_ROUTING
FORMAT = indexer ---> Outputs.conf tcpgroup
```

**To send code=f to a specific index**

```
[source::/opt/monitorlogs/indexLogs.txt]
TRANSFORMS-index = send_to_index
```

```
transforms.conf
[send_to_index]
REGEX = Code=F
DEST_KEY = _MetaData:Index
FORMAT = apple
```



## transforms.conf | Splunk Enterprise (last updated)

2025-07-04T13:09:40.897Z)

The following are the spec and example files for transforms.conf.

[splunk.com](https://splunk.com)

- \* NOTE: Keys are case-sensitive. Use the following keys exactly as they appear.
- 
- queue : Specify which queue to send the event to (can be nullQueue, indexQueue).
  - \* indexQueue is the usual destination for events going through the transform-handling processor.
  - \* nullQueue is a destination which causes the events to be dropped entirely.
- \_raw : The raw text of the event.
- \_meta : A space-separated list of metadata for an event.
- \_time : The timestamp of the event, in seconds since 1/1/1970 UTC.
- 
- MetaData:Host : The host associated with the event.
  - The value must be prefixed by "host::"
- 
- \_MetaData:Index : The index where the event should be stored.
- 
- MetaData:Source : The source associated with the event.
  - The value must be prefixed by "source::"
- 
- MetaData:Sourcetype : The source type of the event.
  - The value must be prefixed by "sourcetype::"
- 
- \_TCP\_ROUTING : Comma separated list of tcput group names (from outputs.conf)
  - Defaults to groups present in 'defaultGroup' for [tcpout].
- 
- \_SYSLOG\_ROUTING : Comma separated list of syslog-stanza names (from outputs.conf)
  - Defaults to groups present in 'defaultGroup' for [syslog].
- 
- \* NOTE: Any KEY (field name) prefixed by '\_' is not indexed by Splunk software, in general.

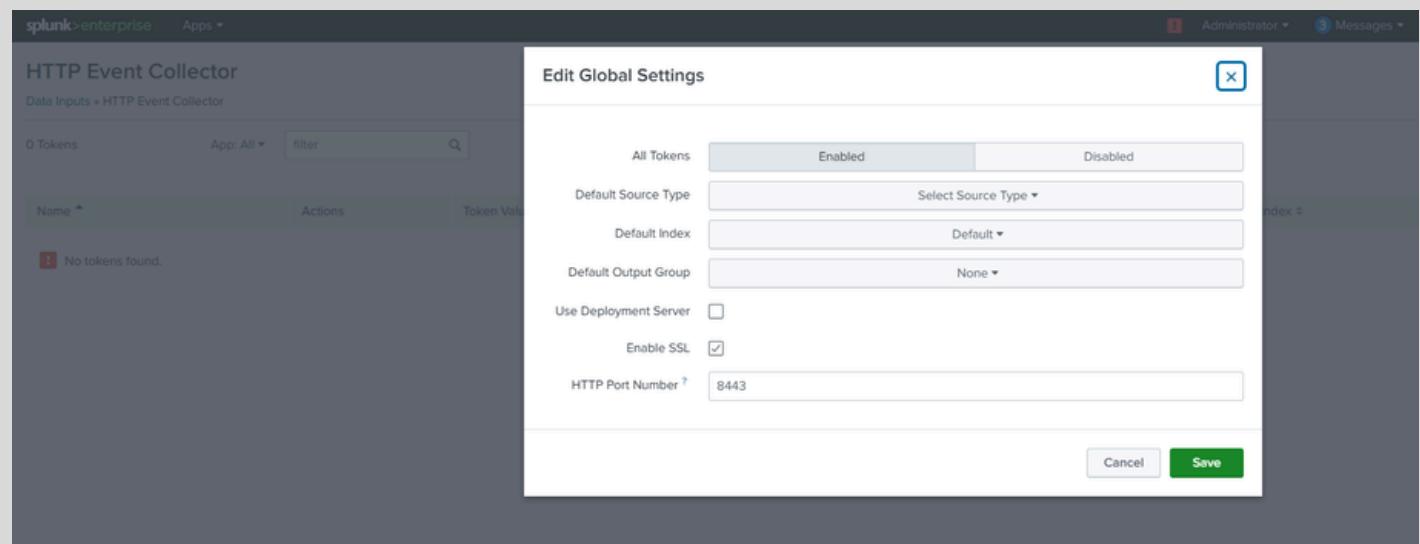
## HEC

Go to WEb → Settings → Data(Data inputs) → HTTP Event Collector

Go to global settings → Enable it (you can change port as needed)

Generate a token

```
{"text":"Success","code":0}
```



```
[root@ip-172-31-46-101 local]# cd /opt/splunk/etc/apps/search/local/
[root@ip-172-31-46-101 local]# ls
indexes.conf  inputs.conf
[root@ip-172-31-46-101 local]# cat in
cat: in: No such file or directory
[root@ip-172-31-46-101 local]# cat inputs.conf
[splunktcp://9997]
connection_host = ip

[http://apple_index]
disabled = 0
host = ip-172-31-46-101.ap-south-1.compute.internal
index = apple
indexes = apple
token = 2745dc24-e308-4f0d-8f0a-4f05914d6ba6
[root@ip-172-31-46-101 local]#
```

- masking data
- HEC - acknowledgement

### props.conf

```
[<SOURCETYPE>]
```

```
[source:<SOURCE>]
```

```
[host:<HOST>]
```

### How to mask the sensitive info

on indexer/hf

### props.conf

```
[access_log]
```

```
SEDCMD-maskCreditcard = s/(\d{12,16})/XXXXXXXXXXXX/g
```

### props.conf

```
[access_transforms]
```

```
TRANSFORMS-maskdata = maskcarddata
```

### transforms.conf

```
[maskcarddata]
```

```
REGEX = (\d{12,16})
```

```
FORMAT = $1::XXXXXXXXXX
```

```
DEST_KEY = _raw
```

### HEC ACK:

<https://help.splunk.com/en/splunk-enterprise/get-started/get-data-in/9.3/get-data-with-http-event-collector/use-curl-to-manage-http-event-collector-tokens-events-and-services>

```
curl --location 'https://43.205.111.108:8443/services/collector/raw?channel=00872DC6-AC83-4EDE-8AFE-8413C3825C21&sourcetype=mydata' \
--header 'Authorization: Splunk be3cc297-83bf-4554-9280-5ef8fb98fddb' \
--header 'Content-Type: application/json' \
--data ""hello World""
```

```
curl --location 'https://43.205.111.108:8443/services/collector/ack?channel=00872DC6-AC83-4EDE-8AFE-8413C3825C4C' \
--header 'Authorization: Splunk f26f5849-00c1-41b8-923b-65e46b1622f5' \
--header 'Content-Type: application/json' \
--data '{"acks": [1,3,4]}'
```

/opt/splunk/{etc,bin,auth}/

filename.conf – configuration file  
 [stanza] →  
 attribute1 = value1  
 attribute2 = value2  
 host = google1.com → example

**File precedence**

/opt/splunk/etc/system/local → 1<sup>st</sup>  
 filename.conf – configuration file  
 [stanza] →  
 attribute1 = value1  
 attribute2 = value2  
 host = google1.com

/opt/splunk/etc/apps/ta\_nix/local/ → 3<sup>rd</sup>  
 filename.conf – configuration file  
 [stanza] →  
 attribute1 = value1  
 attribute2 = raghu  
 host = test.com  
 source = abc\_access.log

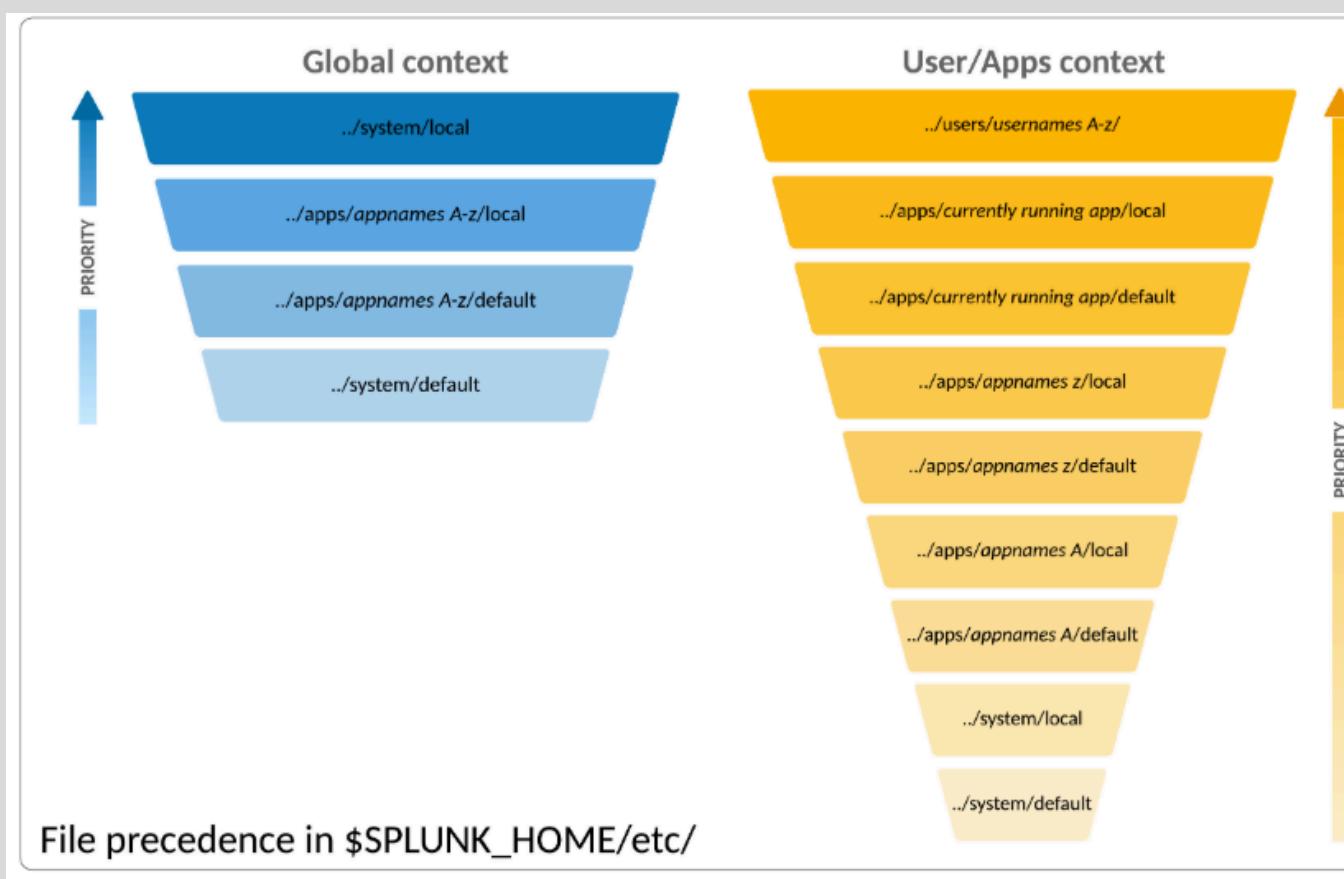
/opt/splunk/etc/apps/ta\_nix/default/ → 5<sup>th</sup>  
 filename.conf – configuration file  
 [stanza] →  
 attribute1 = mahesh  
 attribute2 = value2  
 host = test.com  
 source = xyz.log

/opt/splunk/etc/apps/00\_nix/local/ → 2<sup>nd</sup>  
 filename.conf – configuration file  
 [stanza] →  
 attribute1 = value1  
 attribute2 = raghu  
 host = test.com

/opt/splunk/etc/apps/00\_nix/default/ → 4<sup>th</sup>  
 filename.conf – configuration file  
 [stanza] →  
 attribute1 = mahesh  
 attribute2 = value2  
 host = test.com  
 source = xyz222.log

/opt/splunk/etc/system/default → LAST – DO NOT EDIT  
 filename.conf – configuration file  
 [stanza] →  
 attribute1 = value1  
 attribute2 = value2  
 host = google1.com

<https://dev.splunk.com/enterprise/docs/developapps/manageknowledge/fileprecedence/>

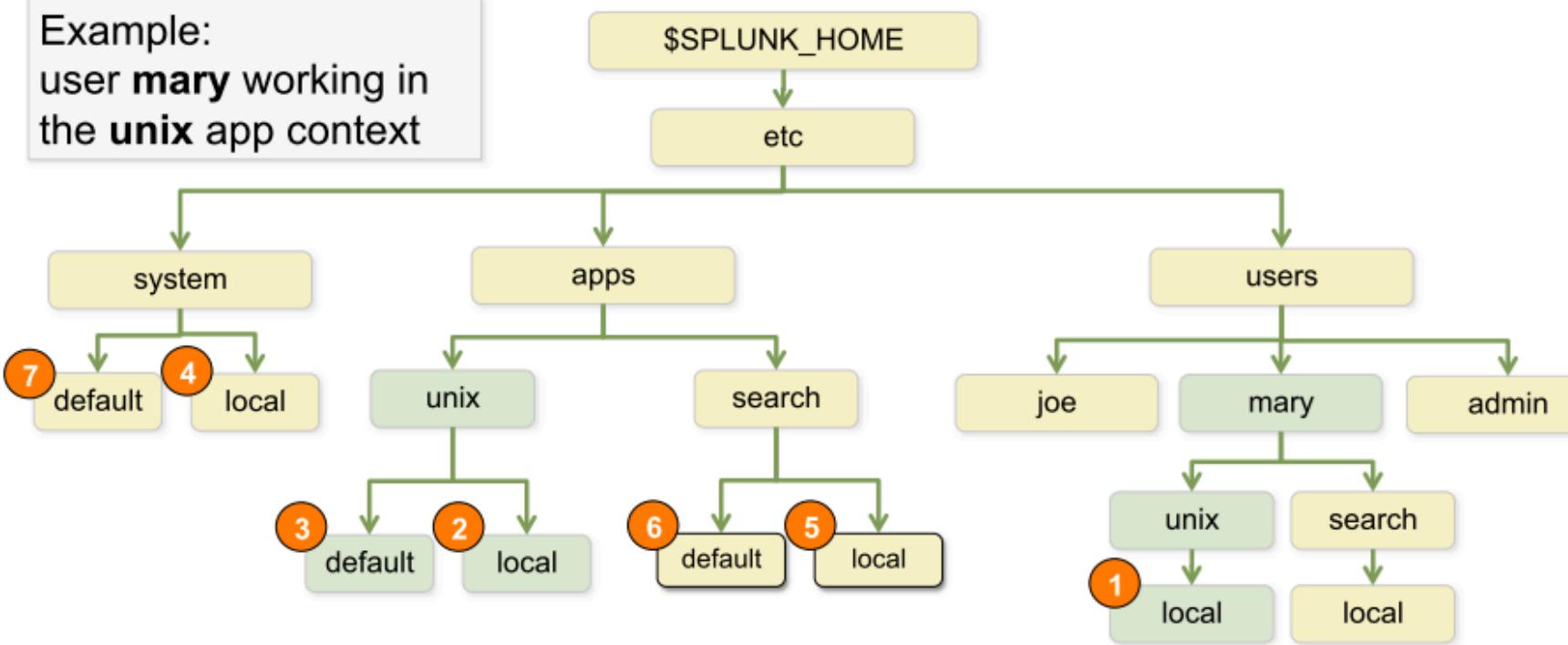
**Configuration file precedence | Splunk Enterprise**

(last updated 2026-01-13T20:49:59.332Z)

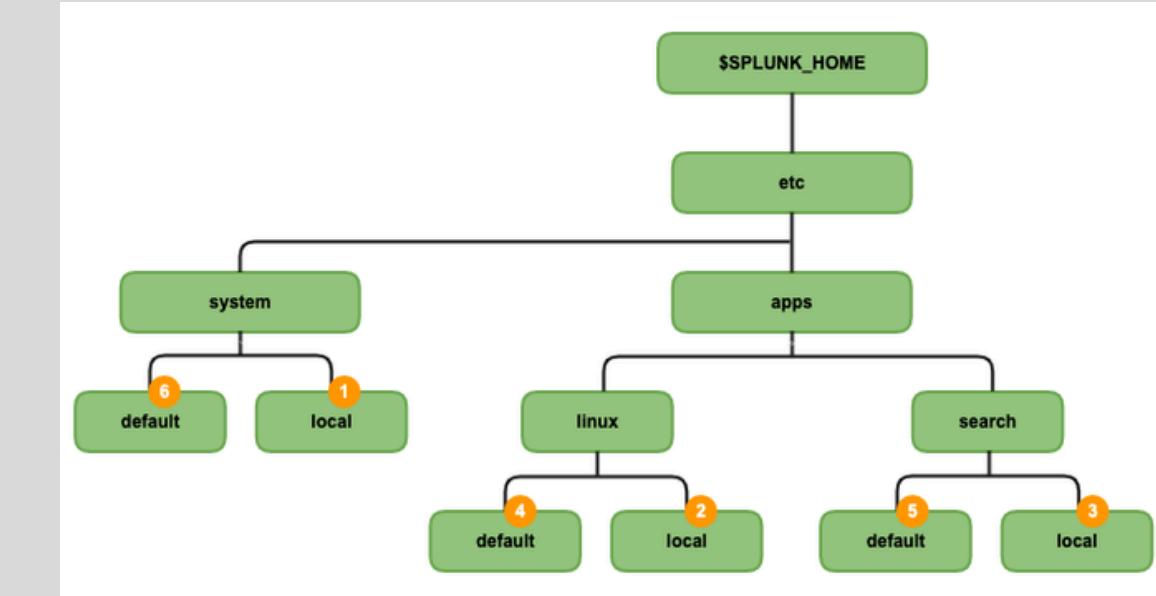
Gain operational intelligence by collecting, indexing, and visualizing data using a powerful on-premises engine for...

splunk.com

**Example:**  
**user mary working in the unix app context**



<https://www.alasta.com/splunk/2019/11/09/splunk-precedence.html>

**NUMBERS**

First, numbers (sorted by digit):

- \$SPLUNK\_HOME/etc/apps/myapp1
- \$SPLUNK\_HOME/etc/apps/myapp10
- \$SPLUNK\_HOME/etc/apps/myapp2
- \$SPLUNK\_HOME/etc/apps/myapp20

**UPPERCASE**

Then, uppercase letters:

- \$SPLUNK\_HOME/etc/apps/myappAlpha
- \$SPLUNK\_HOME/etc/apps/myappBravo
- \$SPLUNK\_HOME/etc/apps/myappCharlie
- \$SPLUNK\_HOME/etc/apps/myappDelta

**LOWERCASE**

Then, lowercase letters:

- \$SPLUNK\_HOME/etc/apps/myappalpha
- \$SPLUNK\_HOME/etc/apps/myappbravo
- \$SPLUNK\_HOME/etc/apps/myappcharlie
- \$SPLUNK\_HOME/etc/apps/myappdelta

## Precedence Search time :

User app local : \$SPLUNK\_HOME/etc//local/  
 App local current app : \$SPLUNK\_HOME/etc/apps//local/  
 App default current app : \$SPLUNK\_HOME/etc/apps//default/  
 Others app local : \$SPLUNK\_HOME/etc/apps//local/  
 Others app default : \$SPLUNK\_HOME/etc/apps//default/  
 System local : \$SPLUNK\_HOME/etc/system/local/  
 System default : \$SPLUNK\_HOME/etc/system/default/

### Precedence: (indexer cluster)

Slave-app local : \$SPLUNK\_HOME/etc/slave-apps/local/  
 System local : \$SPLUNK\_HOME/etc/system/local/  
 App local : \$SPLUNK\_HOME/etc/apps//local/  
 Slave-app default : \$SPLUNK\_HOME/etc/slave-apps/default/  
 App default : \$SPLUNK\_HOME/etc/apps//default/  
 System default : \$SPLUNK\_HOME/etc/system/default/

