

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
[tcput: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  file2.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=renamehost
```

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

transforms.conf

```
[renamehost]
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=renamehost

[transform rule]
TRANSFORMS-rule1=renamehost

[root@ip-172-31-38-148 local]#
[root@ip-172-31-38-148 local]# cat transforms.conf
[renamehost]
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]# █
```

source="/opt/monitor/file2.txt"	
ore 8/5/25 6:09:41.000 AM) No Event Sampling ▾	
Patterns	Statistics Visualization
nat ▾	Zoom Out Zoom to Selection Deselect
Format ▾ Show: 20 Per Page ▾ View: List ▾	
≡ All Fields	
>	8/1/25 1:05:41.000 AM Thu Aug 01 2025 01:05:41 mailsv1 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
>	8/1/25 1:05:41.000 AM Thu Aug 01 2025 01:05:41 mailsv1 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
>	8/1/25 1:05:41.000 AM Thu Aug 01 2025 01:05:41 mailsv1 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
>	8/1/25 1:05:41.000 AM Thu Aug 01 2025 01:05:41 mailsv1 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
>	7/27/25 1:05:41.000 AM Thu Jul 27 2025 01:05:41 mailsv1 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
>	7/27/25 1:05:41.000 AM Thu Jul 27 2025 01:05:41 mailsv1 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
>	7/27/25 1:05:41.000 AM Thu Jul 27 2025 01:05:41 mailsv1 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
>	7/27/25 1:05:41.000 AM Thu Jul 27 2025 01:05:41 mailsv1 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 tcpout group/indexergroup?
- 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-applttoall = 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 toa specific tcp group when ever there is an event with (Code=F)
[source::/opt/monitorlogs/nullQueueLogs.txt]
TRANSFORMS-TCPGrpp= 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.



- * 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 tcpout 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.
-

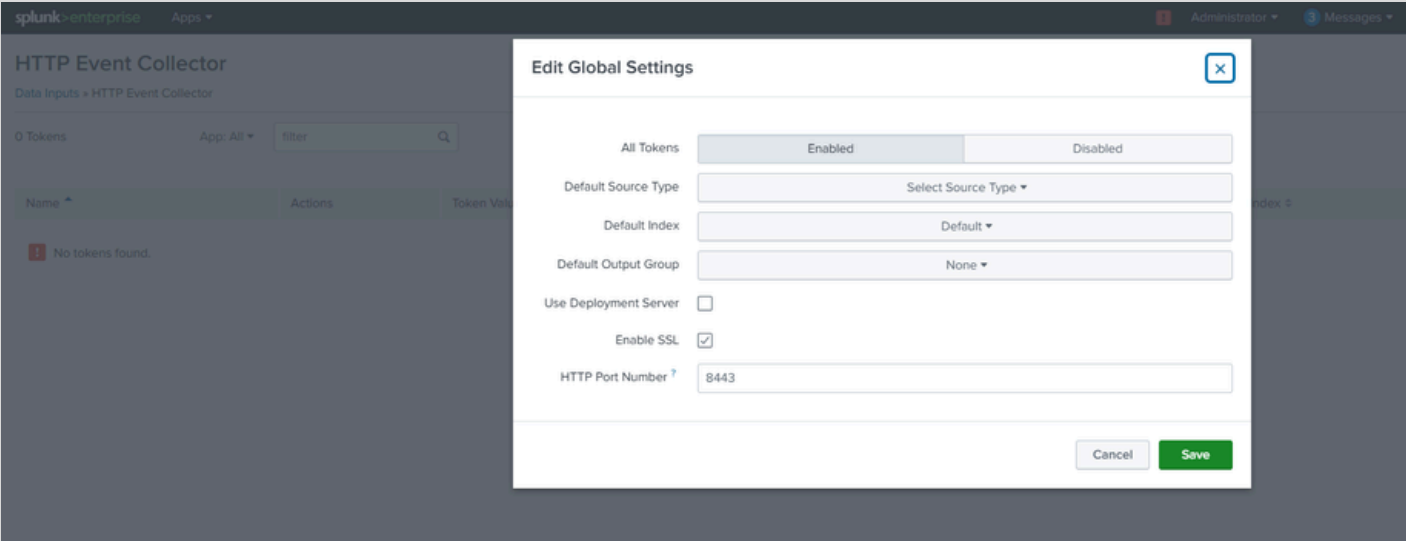
HEC

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]#
[root@ip-172-31-46-101 local]#
[root@ip-172-31-46-101 local]#
[root@ip-172-31-46-101 local]#
[root@ip-172-31-46-101 local]#
[root@ip-172-31-46-101 local]#
[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})/XXXXXXXXXX/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 → 1st
filename.conf – configuration file
[stanza] →
attribute1 = value1
attribute2 = value2
host = google1.com

/opt/splunk/etc/apps/ta_nix/local/ → → 3rd
filename.conf – configuration file
[stanza] →
attribute1 = value1
attribute2 = raghu
host = test.com
source = abc_access.log

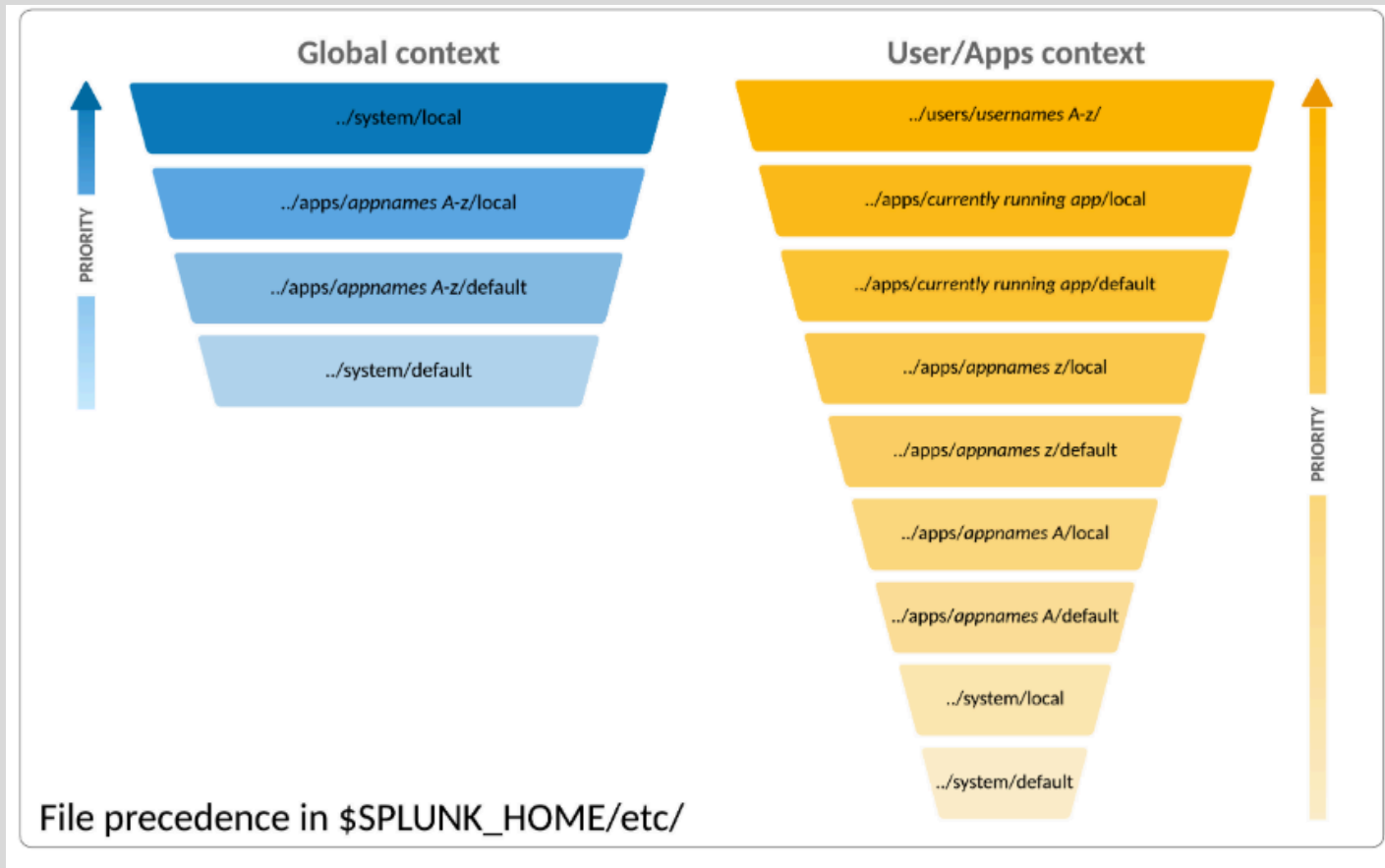
/opt/splunk/etc/apps/ta_nix/default/~ 5th
filename.conf – configuration file
[stanza] →
attribute1 = mahesh
attribute2 = value2
host = test.com
source = xyz.log

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

/opt/splunk/etc/apps/00_nix/default/~ 4th
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/>

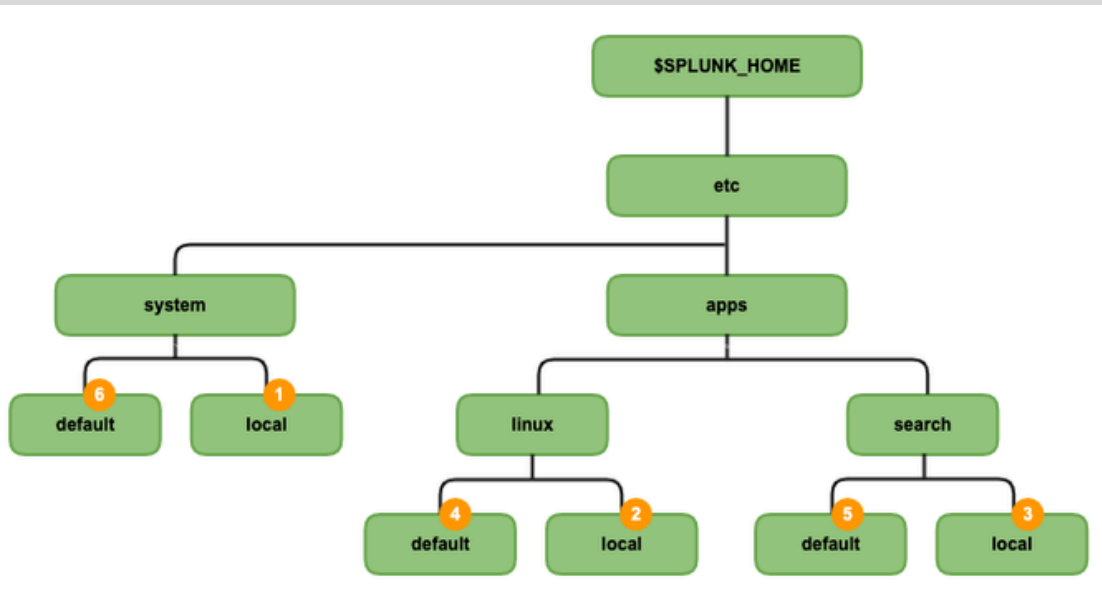


Configuration file precedence | Splunk Enterprise
(last updated 2026-01-13T20:49:59.332Z)

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

splunk.com

<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**:

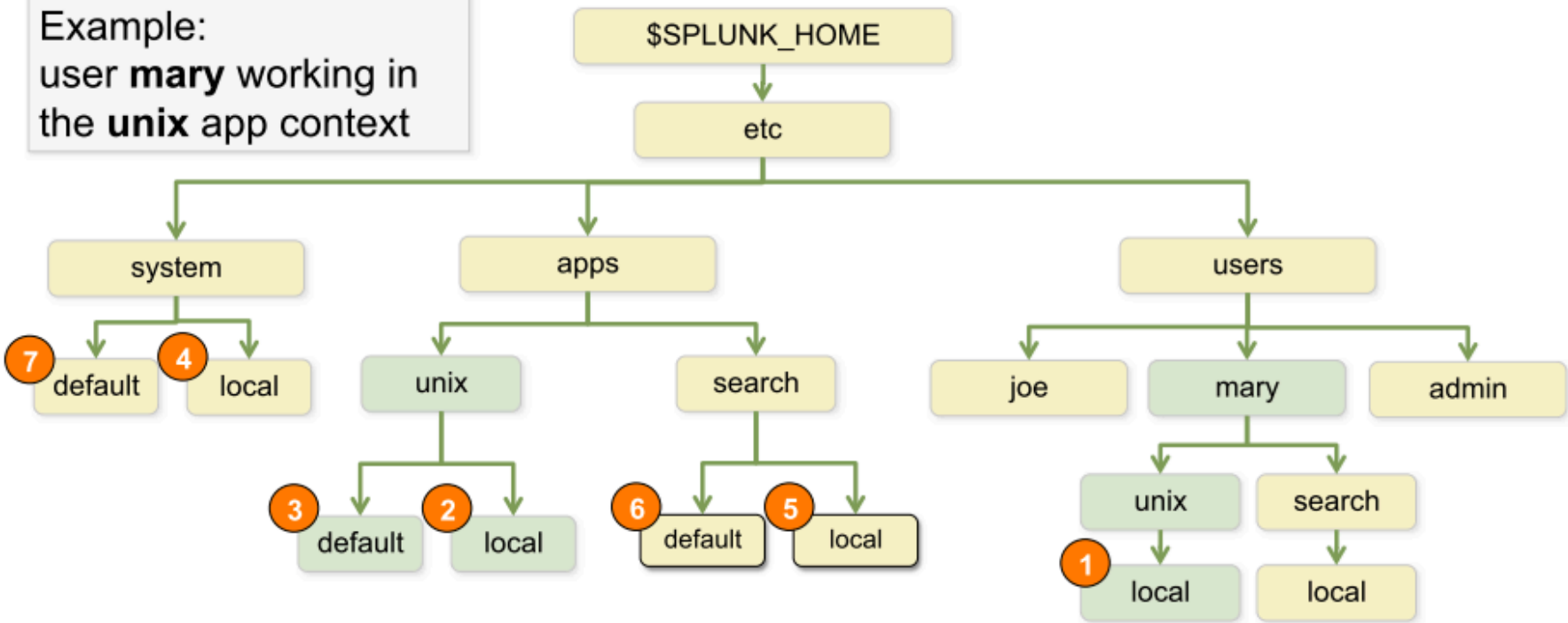
\$SPLUNK_HOME/etc/apps/myappAlpha
\$SPLUNK_HOME/etc/apps/myappBravo
\$SPLUNK_HOME/etc/apps/myappCharlie
\$SPLUNK_HOME/etc/apps/myappDelta

LOWERCASE

Then, **lowercase letters**:

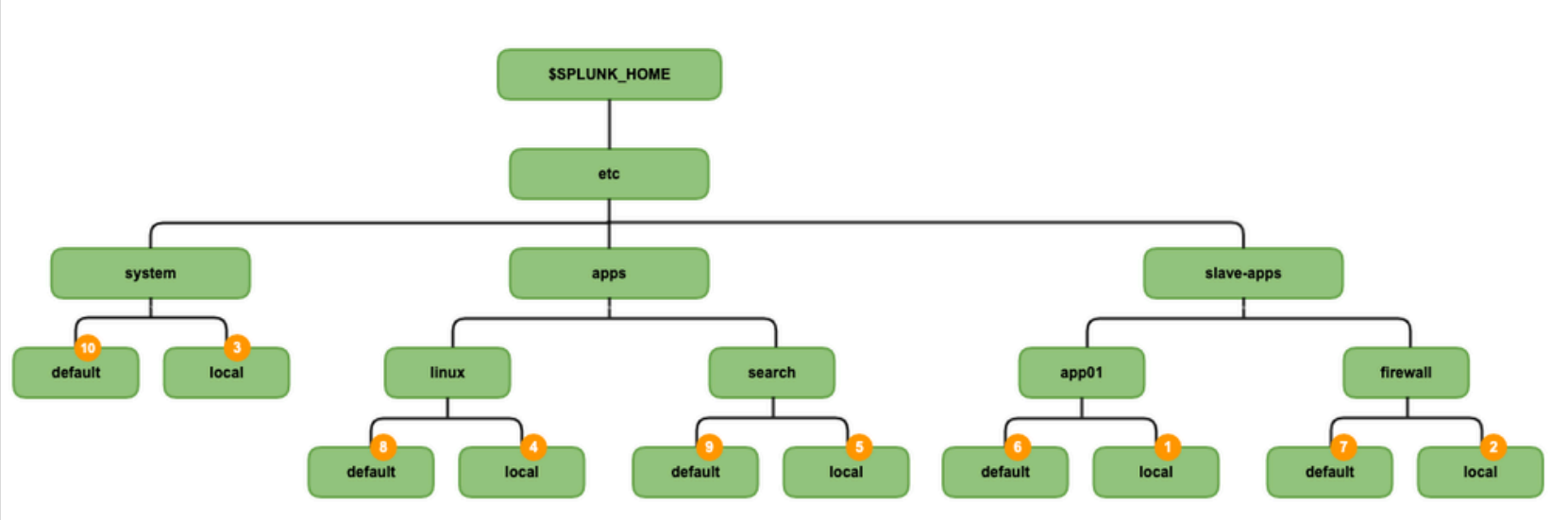
\$SPLUNK_HOME/etc/apps/myappalpha
\$SPLUNK_HOME/etc/apps/myappbravo
\$SPLUNK_HOME/etc/apps/myappcharlie
\$SPLUNK_HOME/etc/apps/myappdelta

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



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/



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/

