

# Splunk4Admins - Apps

## Lab Guide

### Overview

This lab guide contains the hands-on exercises for the Splunk4Admins - Apps workshop. Before proceeding with these exercises, please ensure that you have a copy of the workshop slide deck, which will help to put into context the tasks you are carrying out.

Download the workshop slide deck: <https://splk.it/S4A-Apps-Attendee>

### Prerequisites

In order to complete these exercises, you will need your own Splunk instance. Splunk's hands-on workshops are delivered via the [Splunk Show portal](#) and you will need a splunk.com account in order to access this.

If you don't already have a Splunk.com account, please create one [here](#) before proceeding with the rest of the workshop.

### ⚠ Troubleshooting Connectivity

If you experience connectivity issues with accessing either your workshop environment or the event page, please try the following troubleshooting steps. If you still experience issues please reach out to the team running your workshop.

- **Use Google Chrome** (if you're not already)
- If the event page (i.e. <https://show.splunk.com/event/<eventID>>) didn't load when you clicked on the link, try **refreshing the page**
- **Disconnect from VPN** (if you're using one)
- **Clear your browser cache and restart your browser** (if using Google Chrome, go to: Settings > Privacy and security > Clear browsing data)
- **Try using private browsing mode** (e.g. Incognito in Google Chrome) to rule out any cache issues
- **Try using another computer** such as your personal computer - all you need is a web browser! Cloud platforms like AWS can often be blocked on corporate laptops.

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## Exercise 1 – App context - Demonstration

### Description

Experience how app context permits access to Knowledge Objects. See how a field extract is available when a specific app context is selected (with a field extract limited to app context) rather than the generic form available outside of the ap

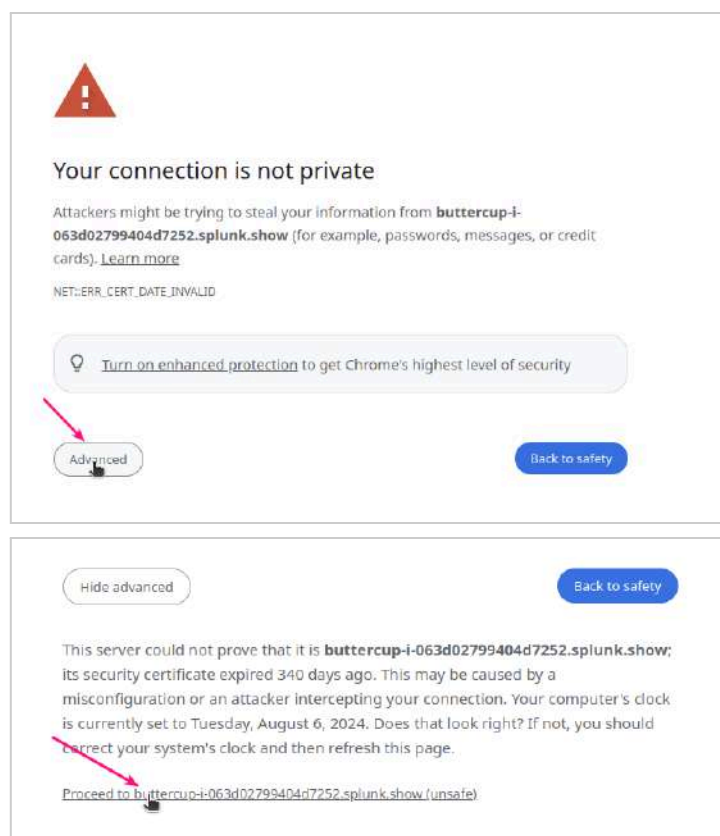
### Steps

#### Access the Enterprise node all-in-one

1. Access the environment by clicking on the Splunk Enterprise link provided in the Splunk Show interface.

**Note:** Due to constraints within the lab environment, the connections will be unencrypted and unvalidated. This is not an issue, as nothing of value is passed, but you will see the following screen.

Click on the “Advanced” button and then on “Proceed to...” at the bottom of the prompt.



2. Login using the following credentials:

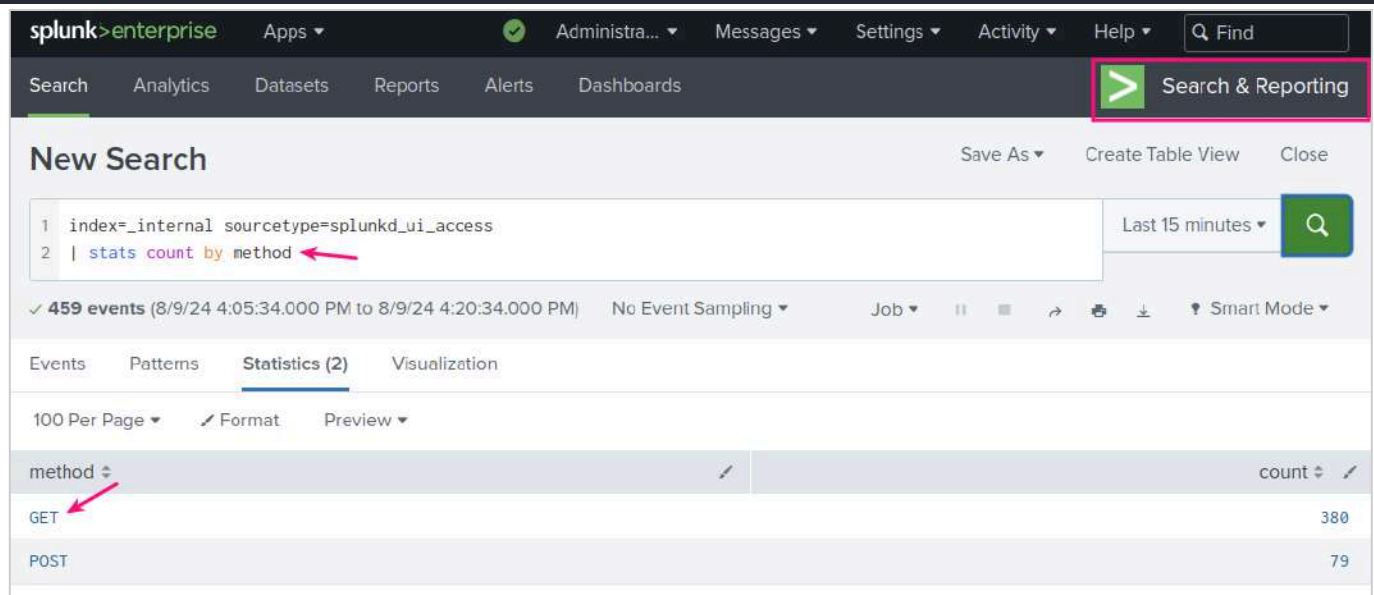
Username: **admin**

Password: **5p1unk.conf**

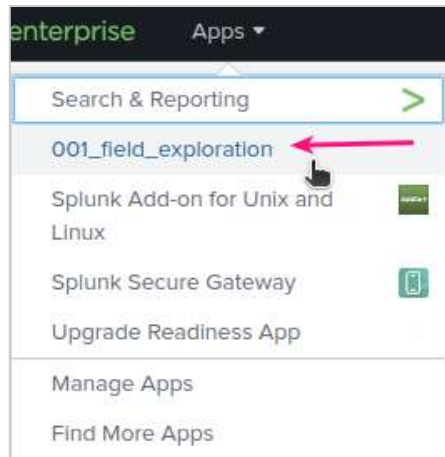


3. Explore Knowledge Object (KO) availability by navigating to the “Search & Reporting” app and running the following search:

```
index=_internal sourcetype=splunkd_ui_access | stats count by method
```



4. Change the app context by clicking on the “Apps” dropdown and selecting “00\_field\_exploration”



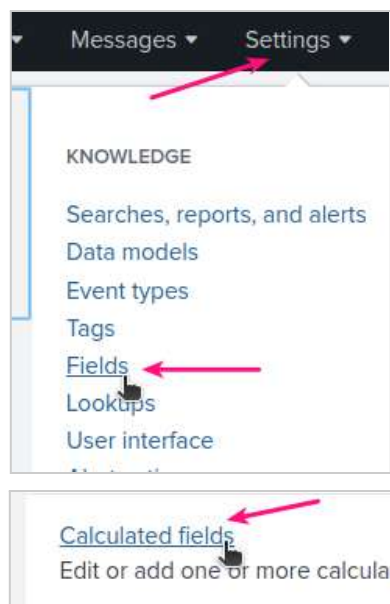
5. Explore the KO availability again by clicking back into the search field and running the same search command

```
index=_internal sourcetype=splunkd_ui_access | stats count by method
```

A screenshot of the Splunk search results page. The top navigation bar shows the 'Apps' dropdown menu with '001\_field\_exploration' selected. The search bar contains the command 'index=\_internal sourcetype=splunkd\_ui\_access | stats count by method'. The search results are displayed in a table view, showing the 'method' field and the 'count' for each method. A red arrow points to the 'en-US+200' method, which has a count of 535. Other methods listed include 'en-US+201', 'en-US+303', 'en-US+304', and 'en-US+404' with counts of 4, 10, 2, and 1 respectively.

method	count
en-US+200	535
en-US+201	4
en-US+303	10
en-US+304	2
en-US+404	1

6. Observe that the results are different - this is just a changed field extract with a synthetic field definition, so there it will appear to be odd. This is simply to demonstrate host context affects access and results.but
7. Explore where this context is derived (“Permissions”) by browsing to “Settings” > “Fields” > “Calculated Fields” > “Permissions” for the extract



Here set to “Global”

Name	Field name	Eval expression	Owner	App	Sharing	Status	Actions
splunkd_ui_access : EVAL-method	method	root.*+status	admin	001_field_exploration	Global   Permissions	Enabled	Clone   Move   Delete

Here set to “App only”

Calculated fields

New Calculated Field

Fields » Calculated fields

Showing 1-1 of 1 item

App: 001\_field\_exploration ...
Configuration Source: Visible in the App
Owner: Any
Filter:
100 per page

Name	Field name	Eval expression	Owner	App	Sharing	Status	Actions
splunkd_ui_access : EVAL-method	method	root.*+status	admin	001_field_exploration	App   Permissions	Enabled	Clone   Move   Delete

The “Permissions” setting page

Permissions

Fields » Calculated fields » splunkd\_ui\_access : EVAL-method » Permissions

Object should appear in

☐ Keep private
☒ This app only (001\_field\_exploration)
☐ All apps (system)

Permissions

Roles	Read	Write
Everyone	<input checked="" type="checkbox"/>	<input type="checkbox"/>
admin	<input type="checkbox"/>	<input checked="" type="checkbox"/>
can_delete	<input type="checkbox"/>	<input type="checkbox"/>
power	<input type="checkbox"/>	<input type="checkbox"/>
splunk-system-role	<input type="checkbox"/>	<input type="checkbox"/>
user	<input type="checkbox"/>	<input type="checkbox"/>

8. Observe the three choices for “Sharing”: “Keep Private”, “This app only” - App-level context, or “All apps” - Global. Compare with the current settings and see that it is currently limited to “This app only” and why the field extract was different from the “Search & Report” context
-

## Exercise 2 – Upload an app via CLI

### Description

Install a created app via a command line interface (locally on the node)

- Access the app via ssh
- Use the ‘splunk install app ...’ command to install the app
- Explore what is in the app to understand two of the important basic building blocks of apps, apps.conf and default.meta
- Demonstrate availability via a splunk restart

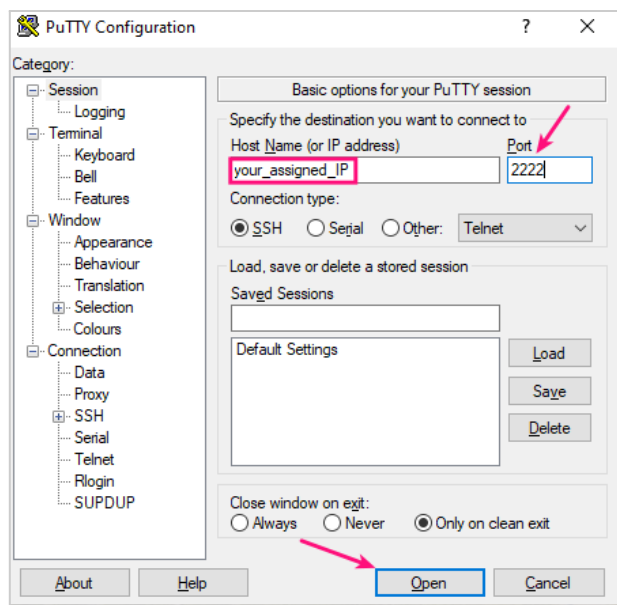
### Steps

#### Access the Enterprise node all-in-one

The command line version for both linux and macOS [note the lowercase “p”] (change “<your\_assigned\_IP>” to be the actual assigned IP): with the password “Sp1unkH00di3”

```
ssh -p 2222 splunk@<your_assigned_IP>
```

Windows-style, here with PuTTY - note the GUI (change “<your\_assigned\_IP>” to be the actual assigned IP): same passwd as above “Sp1unkH00di3”



#### Install via ‘splunk install app ...’

1. Execute the following command:

```
/opt/splunk/bin/splunk install app /opt/showlab/APP5-s4a-apps/fin_user_viz.tar.gz -auth admin:Sp1unk.conf
```



2. Explore what has been placed into \$SPLUNK\_HOME/etc/apps:

```
find /opt/splunk/etc/apps/fin_user_viz -ls
```

```
splunk@show-no-config-i-0f8fa34e686e76c6d:/opt/splunk/etc/apps/fin_user_viz$ find -ls
2839457      4 drwxr-xr-x  5 splunk  splunk    4096 Aug 29 17:20 .
2839465      4 drwxr-xr-x  2 splunk  splunk    4096 Aug 29 17:20 ./metadata
2839467      4 -rw-r--r--  1 splunk  splunk    101 Aug 29 17:20 ./metadata/default.meta
2839480      4 -rw-----  1 splunk  splunk     87 Aug 29 17:20 ./metadata/local.meta
2839469      4 drwxr-xr-x  2 splunk  splunk    4096 Aug 29 17:20 ./static
2839470      4 -rw-----  1 splunk  splunk   1902 Aug 29 17:20 ./static/appIcon_2x.png
2839471      4 -rw-----  1 splunk  splunk    639 Aug 29 17:20 ./static/appIcon.png
2839472      4 -rw-r--r--  1 splunk  splunk    139 Aug 29 17:20 ./README
2839473      4 drwxr-xr-x  3 splunk  splunk    4096 Aug 29 17:20 ./default
2839474      4 drwxr-xr-x  3 splunk  splunk    4096 Aug 29 17:20 ./default/data
2839475      4 drwxr-xr-x  4 splunk  splunk    4096 Aug 29 17:20 ./default/data/ui
2839476      4 drwxr-xr-x  2 splunk  splunk    4096 Aug 29 17:20 ./default/data/ui/views
2839477      4 -rw-r--r--  1 splunk  splunk   1361 Aug 29 17:20 ./default/data/ui/views/splunk_ps__users_and_roles.xml
2839478      4 drwxr-xr-x  2 splunk  splunk    4096 Aug 29 17:20 ./default/data/ui/nav
2839479      4 -rw-r--r--  1 splunk  splunk    233 Aug 29 17:20 ./default/data/ui/nav/default.xml
2839489      4 -rw-----  1 splunk  splunk    382 Aug 29 17:20 ./default/app.conf
```

3. Observe the settings in default.meta:

```
more /opt/splunk/etc/apps/fin_user_viz/metadata/default.meta
```

```
splunk@show-no-config-i-01e760ef443ed0e19:/opt/splunk/etc/apps$ more /opt/splunk/etc/apps/fin_user_viz/metadata/default.meta
# Application-level permissions

[]
access = read : [ fin_monitoring_admin admin ], write : [ fin_monitoring_admin admin, sc_admin ]
owner = fin_monitoring_admin
```

Owned by the custom role “fin\_monitoring\_admin”, limited to read and write by the same group. Limited access due to “sensitivity”.

4. Observe the settings in app.conf:

```
more /opt/splunk/etc/apps/fin_user_viz/default/app.conf
```

```
splunk@show-no-config-i-0f8fa34e686e76c6d:/opt/splunk/etc/apps/fin_user_viz$ more /opt/splunk/etc/apps/fin_user_viz/default/app.conf
[package]
id = fin_user_viz
check_for_updates = false

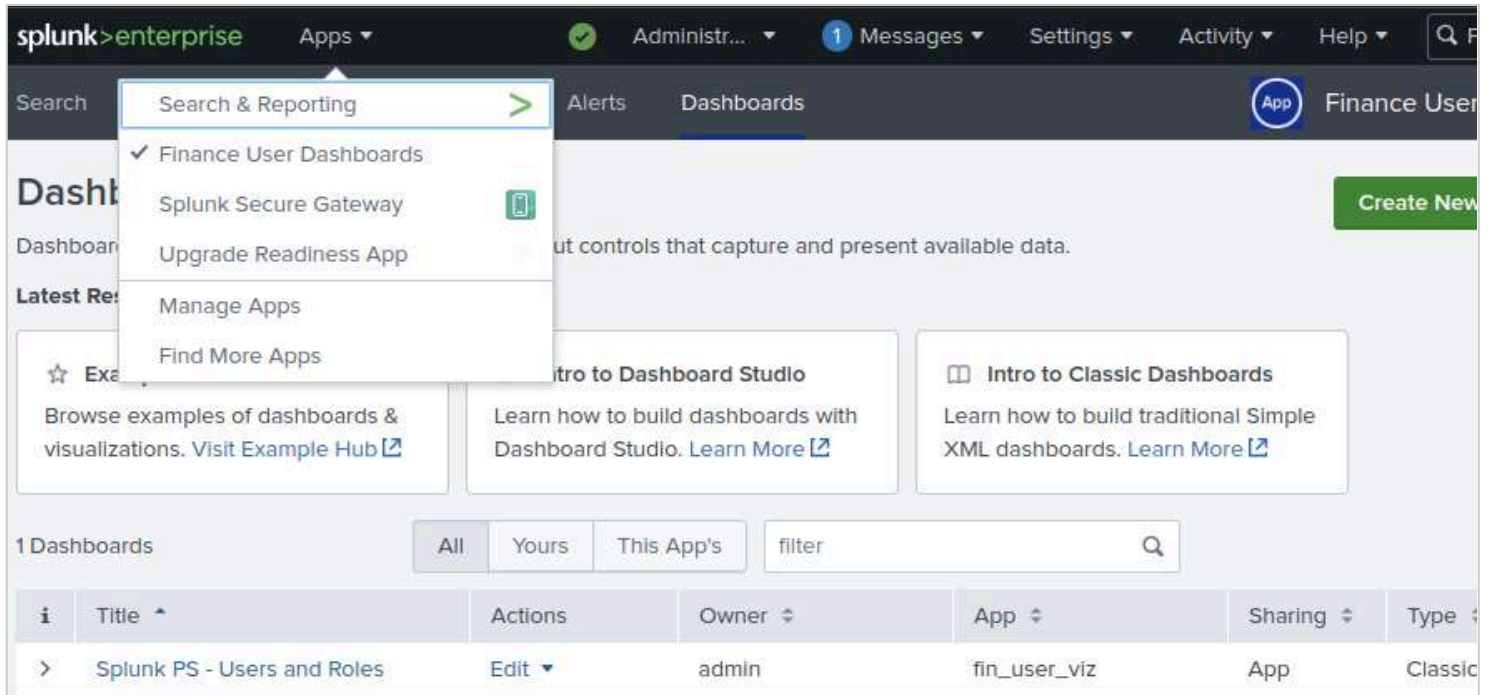
[install]
state = enabled
build = 1
install_source_checksum = 97fea7989bcd5cfe8ae3178843cd5cd5e7384ba0

[launcher]
author = splunkadmin@buttercup.com
description = dashboards for finance user setup visualizations
version = 1.0.0

[ui]
is_visible = true
label = Finance User Dashboards

[id]
version = 1.0.0
name = fin_user_viz
```

5. Validate that the 'Finance User Dashboards' app now appears in Splunk: (the page may need to be reloaded by a browser reload command)



## Exercise 3 – Copy to directory

### Description

Install a created app via a command line interface (locally on the node)

- Access the app via ssh
- Use the 'cp <source> \$SPLUNK\_HOME<dest>' command to install the app
- Explore what is in the app to understand two of the important basic building blocks of apps, apps.conf and default.meta

Demonstrate availability via a splunk restart

### Steps

#### Access the Enterprise node all-in-one

(Follow the steps outlined in [Exercise 2](#))

#### Using an already created app (to establish a new index on the node)

1. Execute the commands:

```
cp -rp /opt/showlab/APPS-s4a-apps/fin_weblogs_indexes/ /opt/splunk/etc/apps/
```

```
splunk@show-no-config-1-0f8fa34e686e76c6d:/opt$ cp -rp /opt/showlab/APPS-s4a-apps/fin_weblogs_indexes/ /opt/splunk/etc/apps/  
splunk@show-no-config-1-0f8fa34e686e76c6d:/opt$
```

2. Observe the files in the app:

```
more /opt/splunk/etc/apps/fin_weblogs_indexes/default/app.conf
```

```
splunk@show-no-config-1-0f8fa34e686e76c6d:/opt$ more /opt/splunk/etc/apps/fin_weblogs_indexes/default/app.conf  
[package]  
id = fin_weblog_indexes  
check_for_updates = false  
  
[install]  
state = enabled  
build = 1  
  
[launcher]  
author = splunkadmin@buttercup.com  
description = index for weblogs  
version = 1.0.0  
  
[ui]  
is_visible = false  
label = Finance Index Definitions  
  
[id]  
version = 1.0.0  
name = fin_weblog_indexes
```

```
more /opt/splunk/etc/apps/fin_weblogs_indexes/default/indexes.conf
```

```
splunk@show-no-config-i-0f8fa34e686e76c6d:/opt$ more /opt/splunk/etc/apps/fin_weblogs_indexes/default/indexes.conf
[volume:hot-warm]
path = /opt/splunk/var/lib/splunk
maxVolumeDataSizeMB = 80000

[volume:cold-thawed]
path = /opt/splunk/var/lib/cold_thawed
maxVolumeDataSizeMB = 1000

[weblogs]
homePath = volume:hot-warm/$_index_name/db
coldPath = volume:hot-warm/$_index_name/coldddb
thawedPath = $SPLUNK_DB/$_index_name/thaweddb
summaryHomePath = volume:hot-warm/$_index_name/summary
tstatsHomePath = volume:hot-warm/$_index_name/datamodel_summary
maxDataSize = auto
maxTotalDataSizeMB = 5000
frozenTimePeriodInSecs = 43200
```

```
more /opt/splunk/etc/apps/fin_weblogs_indexes/metadata/local.meta
```

```
splunk@show-no-config-i-0f8fa34e686e76c6d:/opt$ more /opt/splunk/etc/apps/fin_weblogs_indexes/metadata/local.meta
[]
access = read : [ * ], write : [ admin ]
export = system
```

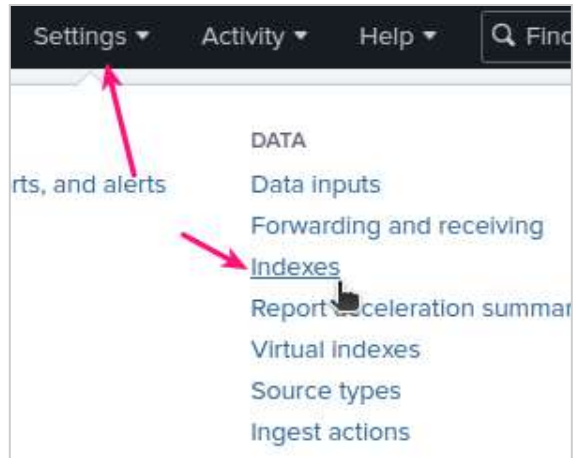
### 3. Restart Splunk:

```
/opt/splunk/bin/splunk restart
```

```
splunk@show-no-config-i-0f8fa34e686e76c6d:/opt$ /opt/splunk/bin/splunk restart
Stopping splunkd...
Shutting down. Please wait, as this may take a few minutes.
....
Stopping splunk helpers...
```

### Validate the index exists on the node

#### 4. In the GUI, select “Settings”, “Indexes” ...



And see the new index created, from the “*fin\_weblogs\_indexes*” app, with a max size of 5 gigabytes

## Indexes

A repository for data in Splunk Enterprise. Indexes reside in flat files on the Splunk Enterprise instance known as the indexer. [Learn more](#)

13 Indexes



Name ▾	Actions	Type ▾	App ▴	Current Size ▾	Max Size ▾ ?	Even
weblogs	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Disable</a>	Events	fin_weblogs_indexes	1 MB	4.88 GB	0
_audit	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Disable</a>	Events	system	4 MB	488.28 GB	27.9k

## Exercise 4 – Upload an app via GUI

### Description

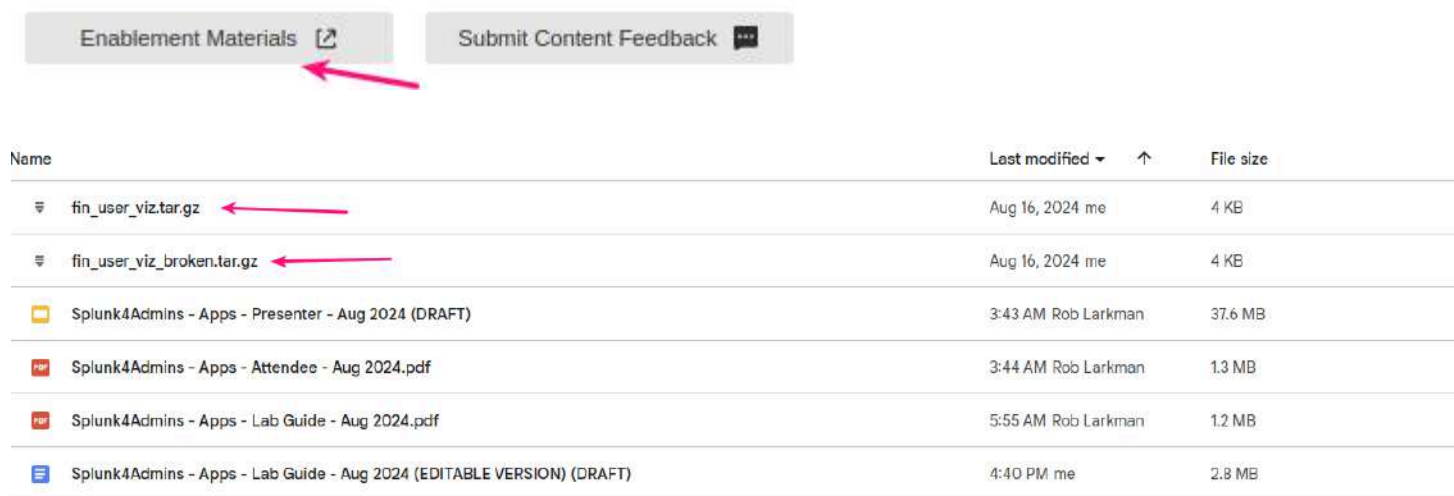
In this exercise we will:

1. Build an app, but ensure the correct files are in place
2. Click through to “Upload App”
3. Generate “App Validation”
  - a. If successful { install }
  - b. else { diagnose, remediate, retry }

### Steps

#### Access your Splunk Cloud instance

1. From the email, access the SHOW interface enablement documents download the two app files “fin\_user\_viz.tar.gz” and “fin\_user\_viz\_broken.tar.gz” to your local machine. Remember where they are downloaded to ...

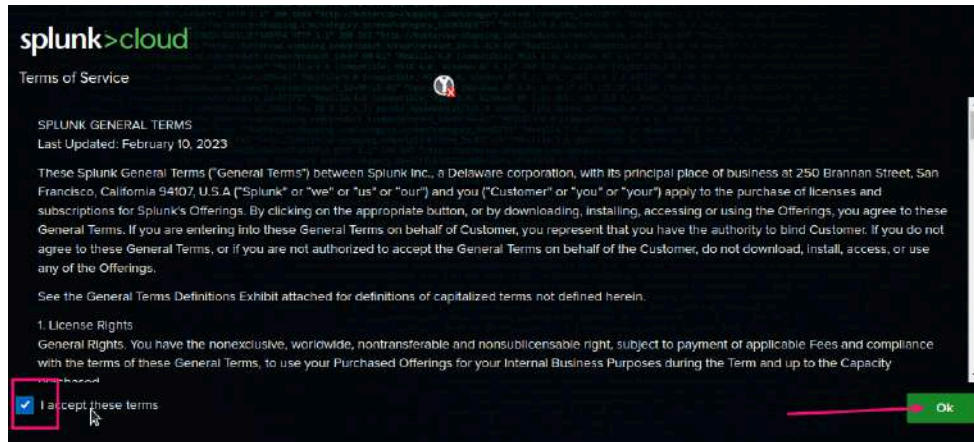


2. Access the Splunk Cloud environment by clicking on the Splunk Cloud link provided in the Splunk Show interface.
3. Login using the credentials provided by Splunk Show:

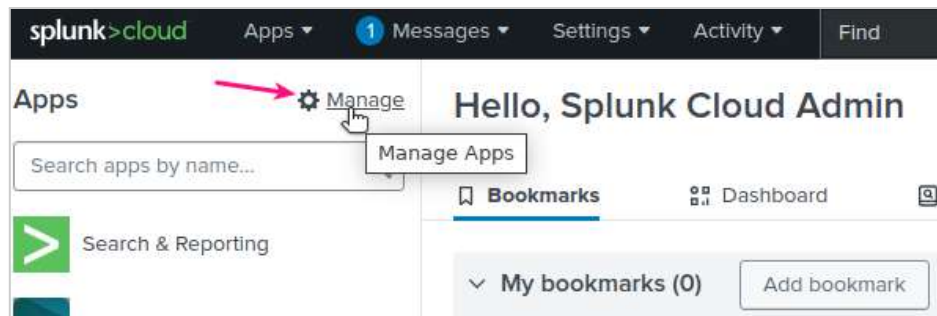




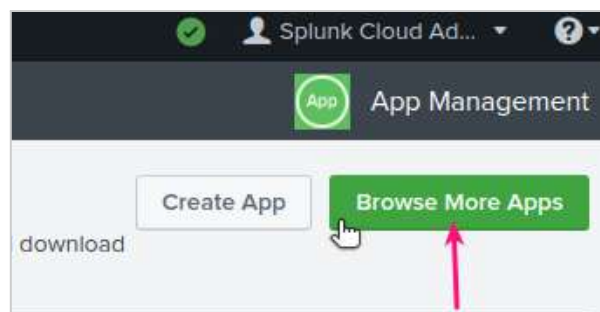
4. Accept the Splunk Cloud Terms of Service by clicking on the box on the lower right and then the green “Ok” on the right:



5. Click on “Manage” next to Apps to begin the process



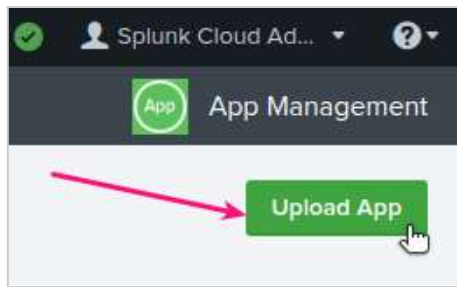
6. Click on “Browse More Apps”



7. Click on “Uploaded Apps”



8. Click on “Upload App”



9. The “Login and Upload” dialogue

The username and password field should be populated with the admin’s splunk.com credentials. Click “Agree and Login” to continue...

A screenshot of the 'Login and Upload' dialog box. The title bar says 'Login and Upload' with a close button. The main content area has a message: 'Enter your Splunk.com username and password. Splunk Cloud requires these credentials to complete app validation before installing your app.' Below this are two input fields: the first contains 'my\_username\_at\_splunkDotCom@splunk.co' and the second is a password field with dots. A red arrow points to the username field, and another points to the password field. Below the password field is a link: 'Forgot your password? [?]'. A paragraph of terms and conditions follows. At the bottom, there are two buttons: 'Cancel' and 'Agree and Login'. A red arrow points to the 'Agree and Login' button.

10. The “Upload App” dialogue appears, select the file containing the app you wish to upload (here it is **fin\_user\_viz\_broken.tar.gz**) and click the green “Upload” button



Upload App

Supported app package file formats are .spl, .tar, .tar.gz or .tgz file.

Drop your file here or browse...

Close

Upload

Upload App

Supported app package file formats are .spl, .tar, .tar.gz or .tgz file.

Drop your file here or browse...

fin\_user\_viz\_broken.tar.gz

Close

Upload

See the “App Validation In Progress” panel

App Validation in Progress

fin\_user\_viz\_broken.tar.gz uploaded successfully! Automated private app validation is now checking for issues, which can take a few minutes.

11. Upon completion of the App Vetting process, a response, with a link to review the results. Click the green “View Report” button

App Vetting Complete

2 Issues found.

You must fix these issues before you can install your app. for details, see the [report](#). For help, see the [Splunk Developer Docs](#).

Close

View Report

## Review the report

fin\_user\_viz\_broken.tar.gz has a misconfiguration in that the files are all in the “local” directory (as indicated by the ‘MISSING default/app.conf’ response). Further details are available in the report as to exactly what needs to be remediated. This can be many things, so read carefully.

### [MISSING `default/app.conf`]

[MISSING `default/app.conf`]

Author	[MISSING `default/app.conf`]
Tags	advanced_xml, alert_actions_conf, appapproval, cloud, custom_search_commands, custom_search_commands_v2, custom_visualizations, custom_workflow_actions, deprecated_feature, developer_guidance, django_bindings, future, inputs_conf, jquery, manual, markdown, modular_inputs, offensive, packaging_standards, private_app, removed_feature, restmap_config, savedsearches, security, self-service, splunk_appinspect
Version	[MISSING `default/app.conf`]
Hash	15994534dd3985fa209cbfd036df9d3d
AppInspect Request ID	6eb0b1ae-b884-48e1-b82a-12fc9f0c4a39
Run Time	2024-08-18T18:45:04.051970
Execution Time	9

#### Run parameters:

Field	Value
AppInspect Version	3.7.0

#### Analyzers:

Name	Version	Is Latest
static-checks	3.7.0	True
dynamic-checks	1.34.0	True
retire-js	1.0.2	True

**Compatibility totals:**

Status	Count
✓ Successes	0
✗ Failures	2
✗ Errors	0
⚠ Warnings	0
🔍 Manual Checks	0
🚫 Not Applicable	2
🔄 Skipped	335

**[ Failure Summary ]**

Failures will block the Cloud Vetting. They must be fixed.

- ✗ **check\_that\_extracted\_splunk\_app\_contains\_default\_app\_conf\_file**  
Splunk App packages should contain a 'default/app.conf' file. No 'default/app.conf' was found in 'tmpejxir1rq'.
- ✗ **check\_that\_splunk\_app\_package\_does\_not\_contain\_files\_outside\_of\_app**  
A file or folder was found outside of the app within the overall package. OR the file or folder does not have expected permission. Please remove this file or folder OR modify the permission : fin\_user\_viz\_broken

## Try another app

12. Upload the 'fin\_user\_viz.tar.gz' app and follow through to a 'passing' Vetting process, reach the point of 'passed' vetting and see the "Acknowledge and Install" dialogue. This doesn't appear in Enterprise, it will have just installed the app.

### Upload App

Supported app package file formats are .spl, .tar, .tar.gz or .tgz file.

Drop your file here or browse...

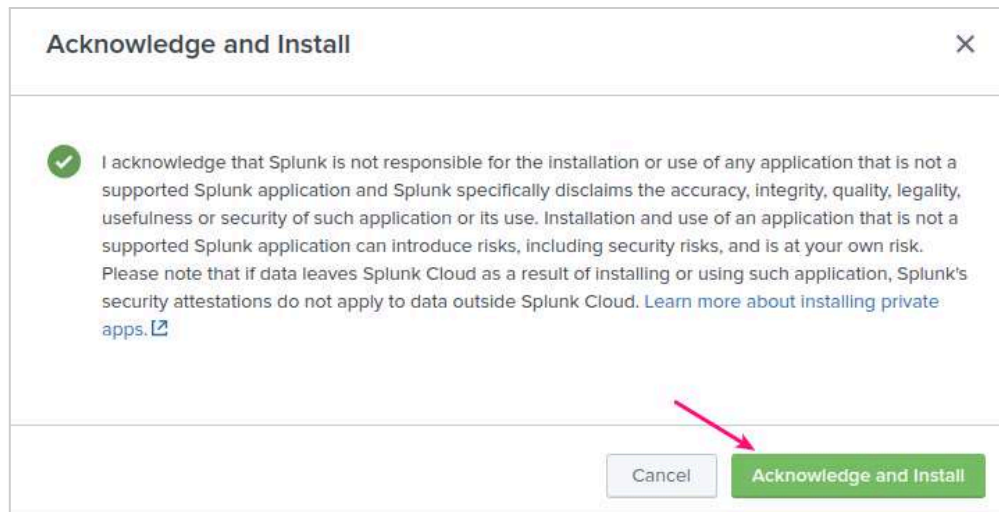
fin\_user\_viz.tar.gz

Close Upload

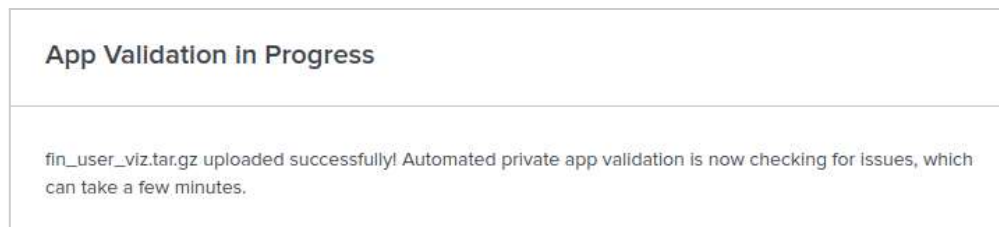
### App Validation in Progress

fin\_user\_viz.tar.gz uploaded successfully! Automated private app validation is now checking for issues, which can take a few minutes.

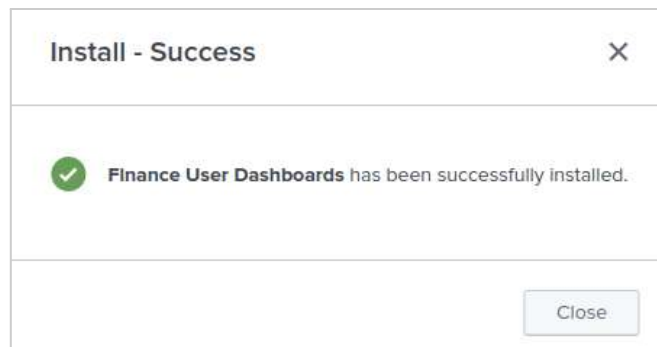
Click the green "Acknowledge and Install" button.



See the “AppValidation - In Progress” dialog

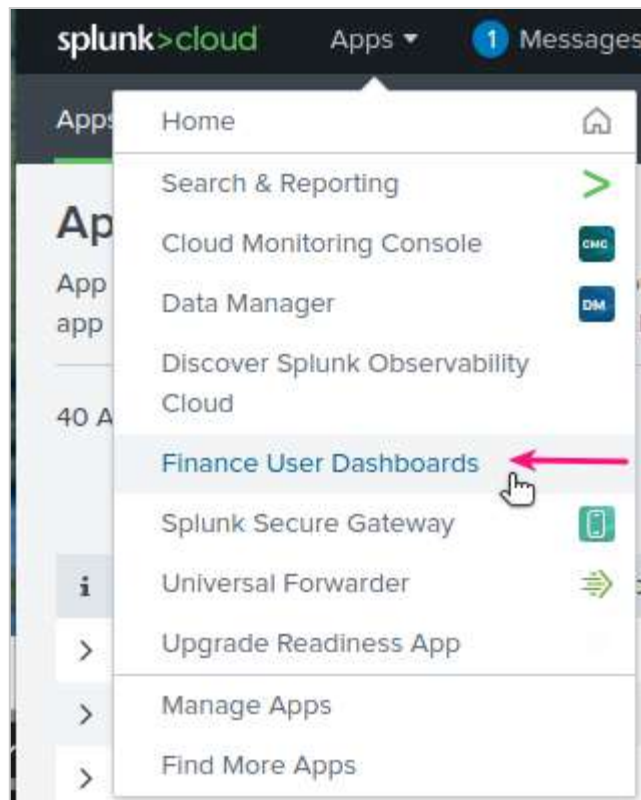


After a moment, see the “Install - Success” interaction, click “Close”

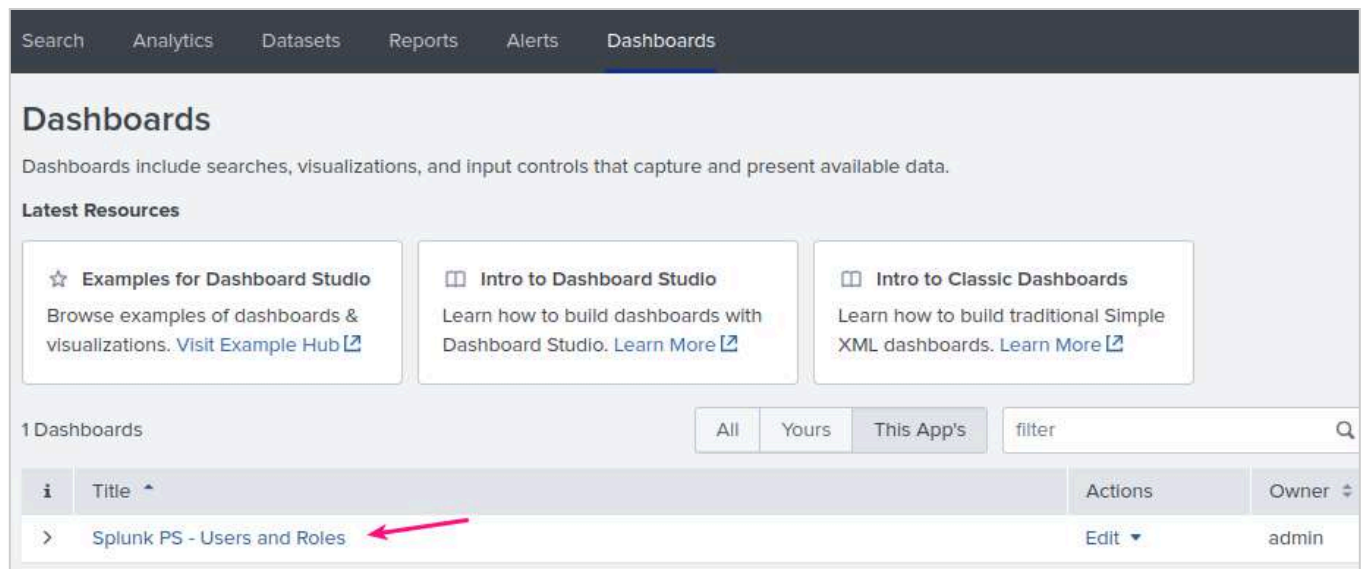


## Validate the installation

13. Click on the 'Apps' dropdown and select “Finance User Dashboards”.



14. Click on the “Dashboards” submenu and see the “Splunk PS - Users and Roles” dashboard.



## Links

Title	Link
What are Splunk Apps and Add-Ons ?	<a href="https://www.splunk.com/en_us/blog/tips-and-tricks/what-are-splunk-apps-and-add-ons.html">https://www.splunk.com/en_us/blog/tips-and-tricks/what-are-splunk-apps-and-add-ons.html</a>
What is a Splunk app?	<a href="https://dev.splunk.com/enterprise/docs/welcome/#What-is-a-Splunk-app">https://dev.splunk.com/enterprise/docs/welcome/#What-is-a-Splunk-app</a>
Developing Views and Apps for Splunk Web	<a href="https://docs.splunk.com/Documentation/Splunk/latest/AdvancedDev/Whatsinthismanual">https://docs.splunk.com/Documentation/Splunk/latest/AdvancedDev/Whatsinthismanual</a>
Apps and add-ons	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/Whatsanapp">https://docs.splunk.com/Documentation/Splunk/latest/Admin/Whatsanapp</a>
Getting Data In	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Data/Usingapps">https://docs.splunk.com/Documentation/Splunk/latest/Data/Usingapps</a>
Manage knowledge object permissions	<a href="https://docs.splunk.com/Documentation/SplunkCloud/latest/Knowledge/Manageknowledgeobjectpermissions">https://docs.splunk.com/Documentation/SplunkCloud/latest/Knowledge/Manageknowledgeobjectpermissions</a>
Manage app permissions in Splunk Cloud Platform	<a href="https://docs.splunk.com/Documentation/SplunkCloud/9.2.24/03/Config/ManageAppPermissions">https://docs.splunk.com/Documentation/SplunkCloud/9.2.24/03/Config/ManageAppPermissions</a>
Developing a Private App for Splunk Cloud Platform	<a href="https://docs.splunk.com/Documentation/SplunkCloud/latest/DevApp/Overview">https://docs.splunk.com/Documentation/SplunkCloud/latest/DevApp/Overview</a>
Deploy and manage private apps in Splunk Cloud Platform	<a href="https://dev.splunk.com/enterprise/docs/releaseapps/manageprivatecloud/">https://dev.splunk.com/enterprise/docs/releaseapps/manageprivatecloud/</a>
Splunk Add-on Builder	<a href="https://splunkbase.splunk.com/app/2962">https://splunkbase.splunk.com/app/2962</a>
Splunk Cloud Platform Admin Manual	<a href="https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/SelfServiceAppInstall">https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/SelfServiceAppInstall</a>
Splunkbase Home	<a href="https://splunkbase.splunk.com/">https://splunkbase.splunk.com/</a>
Understand file precedence in apps for Splunk Cloud Platform or Splunk Enterprise	<a href="https://dev.splunk.com/enterprise/docs/developapps/manageknowledge/fileprecedence/">https://dev.splunk.com/enterprise/docs/developapps/manageknowledge/fileprecedence/</a>
Configuration file precedence	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/Wheretofindtheconfigurationfiles">https://docs.splunk.com/Documentation/Splunk/latest/Admin/Wheretofindtheconfigurationfiles</a>
Use btool to troubleshoot configurations	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Troubleshooting/Usebtooltotroubleshootconfigurations">https://docs.splunk.com/Documentation/Splunk/latest/Troubleshooting/Usebtooltotroubleshootconfigurations</a>
Admins Little Helper for Splunk	<a href="https://splunkbase.splunk.com/app/6368">https://splunkbase.splunk.com/app/6368</a>
Administrative CLI commands	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/CLIadmincommands#:~:text=poll%20bologna%3A1234-s,how.-config%2C%20cluster%2Dbundle">https://docs.splunk.com/Documentation/Splunk/latest/Admin/CLIadmincommands#:~:text=poll%20bologna%3A1234-s,how.-config%2C%20cluster%2Dbundle</a>
Naming conventions	<a href="https://lantern.splunk.com/Splunk_Success_Framework/Data_Management/Naming_conventions">https://lantern.splunk.com/Splunk_Success_Framework/Data_Management/Naming_conventions</a>
Install App via Command Line	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/CLIadmincommands#:~:text=tmp/export.dat-,install,-app">https://docs.splunk.com/Documentation/Splunk/latest/Admin/CLIadmincommands#:~:text=tmp/export.dat-,install,-app</a>
Admin Config Service Manual	<a href="https://docs.splunk.com/Documentation/SplunkCloud//Config/ACSIntro">https://docs.splunk.com/Documentation/SplunkCloud//Config/ACSIntro</a>
default.meta.conf	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/Defaultmetaconf">https://docs.splunk.com/Documentation/Splunk/latest/Admin/Defaultmetaconf</a>

app.conf	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/appconf">https://docs.splunk.com/Documentation/Splunk/latest/Admin/appconf</a>
App deployment overview	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/Deployappsandadd-ons">https://docs.splunk.com/Documentation/Splunk/latest/Admin/Deployappsandadd-ons</a>
Administer Splunk Enterprise with the command line interface (CLI)	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/AbouttheCLI">https://docs.splunk.com/Documentation/Splunk/latest/Admin/AbouttheCLI</a>
Configuration file directories	<a href="https://docs.splunk.com/Documentation/Splunk/Admin/Configurationfiledirectories">https://docs.splunk.com/Documentation/Splunk/Admin/Configurationfiledirectories</a>
Edit the configuration file settings directly	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/Aboutconfigurationfiles#:~:text=system/default.-.Edit%20the%20configuration%20file%20settings%20directly.-While%20you%20can">https://docs.splunk.com/Documentation/Splunk/latest/Admin/Aboutconfigurationfiles#:~:text=system/default.-.Edit%20the%20configuration%20file%20settings%20directly.-While%20you%20can</a>
Use the deployer to distribute apps and configuration updates	<a href="https://docs.splunk.com/Documentation/Splunk/latest/DistSearch/PropagateSHCconfigurationchanges">https://docs.splunk.com/Documentation/Splunk/latest/DistSearch/PropagateSHCconfigurationchanges</a>
Update common peer configurations and app	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Indexer/Updatepeerconfigurations">https://docs.splunk.com/Documentation/Splunk/latest/Indexer/Updatepeerconfigurations</a>
Administer Splunk Enterprise with configuration files	<a href="https://docs.splunk.com/Documentation/Splunk/latest/Admin/Aboutconfigurationfiles">https://docs.splunk.com/Documentation/Splunk/latest/Admin/Aboutconfigurationfiles</a>
Overview of developing a private Splunk Cloud Platform app	<a href="https://docs.splunk.com/Documentation/SplunkCloud/latest/DevApp/Overview">https://docs.splunk.com/Documentation/SplunkCloud/latest/DevApp/Overview</a>
Manage private apps on your Splunk Cloud Platform deployment	<a href="https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps">https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps</a>
Deploy and manage private apps in Splunk Cloud Platform	<a href="https://dev.splunk.com/enterprise/docs/releaseapps/managereprivatecloud/">https://dev.splunk.com/enterprise/docs/releaseapps/managereprivatecloud/</a>
Install a private app on Victoria Experience	<a href="https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps#:~:text=Platform%20Experience.-.Install%20a%20private%20app%20on%20Victoria%20Experience.-If%20your%20Splunk">https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps#:~:text=Platform%20Experience.-.Install%20a%20private%20app%20on%20Victoria%20Experience.-If%20your%20Splunk</a>
Validate the quality of Splunk apps and add-ons for Splunk Cloud Platform or Splunk Enterprise using Splunk AppInspect	<a href="https://dev.splunk.com/enterprise/docs/developapps/testvalidate/appinspect/">https://dev.splunk.com/enterprise/docs/developapps/testvalidate/appinspect/</a>
AppInspect App for Splunk	<a href="https://splunkbase.splunk.com/app/3956">https://splunkbase.splunk.com/app/3956</a>
What is SSH (Secure Shell)?	<a href="https://www.ssh.com/academy/ssh">https://www.ssh.com/academy/ssh</a>
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