Splunk4Admins

Apps

<Customer Name>

<TSE/TAM Name>

splunk>
a CISCO company

Forward-looking statements

This presentation may be deemed to contain forward-looking statements, which are subject to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Any statements that are not statements of historical fact (including statements containing the words “will,” “believes,” “plans,” “anticipates,” “expects,” “estimates,” “strives,” “goal,” “intends,” “may,” “endeavors,” “continues,” “projects,” “seeks,” or “targets,” or the negative of these terms or other comparable terminology, as well as similar expressions) should be considered to be forward-looking statements, although not all forward-looking statements contain these identifying words. Readers should not place undue reliance on these forward-looking statements, as these statements are management’s beliefs and assumptions, many of which, by their nature, are inherently uncertain, and outside of management’s control. Forward-looking statements may include statements regarding the expected benefits to Cisco, Splunk and their respective customers from the completed transaction, the integration of Splunk’s and Cisco’s complementary capabilities and products to create an end-to-end platform designed to unlock greater digital resilience for customers, our expectations regarding greater resiliency and better product outcomes, including for security and observability, plans for future investment, our development and use of AI and the role that our innovation plays as our customers adopt AI. Statements regarding future events are based on Cisco’s current expectations, estimates, and projections and are necessarily subject to associated risks related to, among other things, (i) the ability of Cisco to successfully integrate Splunk’s market opportunities, technology, personnel and operations and to achieve expected benefits, (ii) Cisco’s ability to implement its plans, forecasts and other expectations with respect to Splunk’s business and realize expected synergies, (iii) the outcome of any legal proceedings related to the transaction, (iv) the effects on the accounting relating to the acquisition of Splunk, (v) legislative, regulatory, and economic developments, (vi) general economic conditions, and (vii) the retention of key personnel. Therefore, actual results may differ materially and adversely from the anticipated results or outcomes indicated in any forward-looking statements. For information regarding other related risks, see the “Risk Factors” section of Cisco’s most recent report on Form 10-Q filed on February 20, 2024 and its most recent report on Form 10-K filed on September 7, 2023, as well as the “Risk Factors” section of Splunk’s most recent reports on Form 10-Q filed with the SEC on February 20, 2024 and November 21, 2023, respectively. The parties undertake no obligation to revise or update any forward-looking statements for any reason, except as required by law.

In addition, any information about our roadmap outlines our general product direction and is subject to change at any time without notice. It is for informational purposes only and shall not be incorporated into any contract or other commitment. We undertake no obligation either to develop the features or functionalities described, in beta or in preview (used interchangeably), or to include any such feature or functionality in a future release.

splunk>

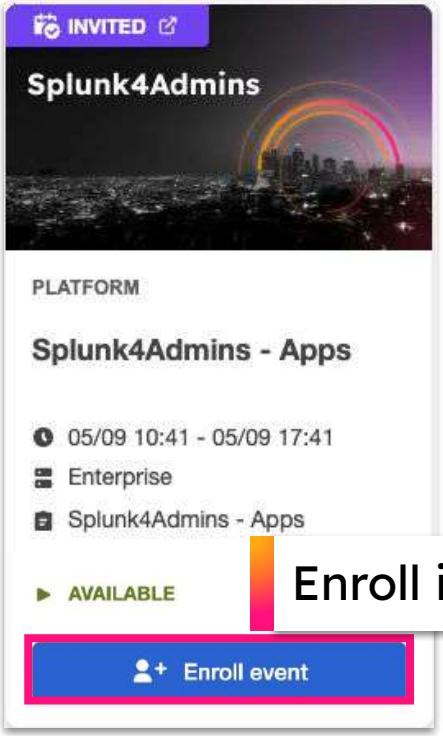
Enroll in Today's Workshop

Tasks

1. Get a splunk.com account if you don't have one yet:
   https://splk.it/SignUp
2. Enroll in the Splunk Show workshop event:
   https://show.splunk.com/event/<eventID>
3. Download the hands-on lab guide:
   https://splk.it/S4A-Apps-Lab-Guide

   Contains step-by-step instructions for all of today's exercises!
4. Download a copy of today's slide deck:
   https://splk.it/S4A-Apps-Attendee

Goal



Enroll in today's event

Please introduce yourself!

- Name
- Company/organisation
- Role
- Are you currently using Splunk?
- What are you interested in using Splunk for?

Workshop Agenda

- Discuss Who? What? Why?
- Expectations
- What is an app, TA, or SA?
- What makes an app?
- App contents and precedence - Lab 1
- Create apps
  - Methods and Locations
  - Enterprise
    - Upload an app via CLI - Lab 2
    - Copy to directory - Lab 3
    - Splunkbase
  - Splunk Cloud
    - Upload to Cloud via GUI - Lab 4
    - AppInspect vetting
- Summary

Audience

Who is this Workshop for?

- Those who are interested in how to observe and detect issues within Splunk …
  - Splunk Admins
  - “Required”: Power User Certified
  - “Preferred”: Splunk Admin enabled (at least started …), Certified

Expectations for Workshop

Apps and Technology Add-Ons - hereinafter “apps” or “TAs”

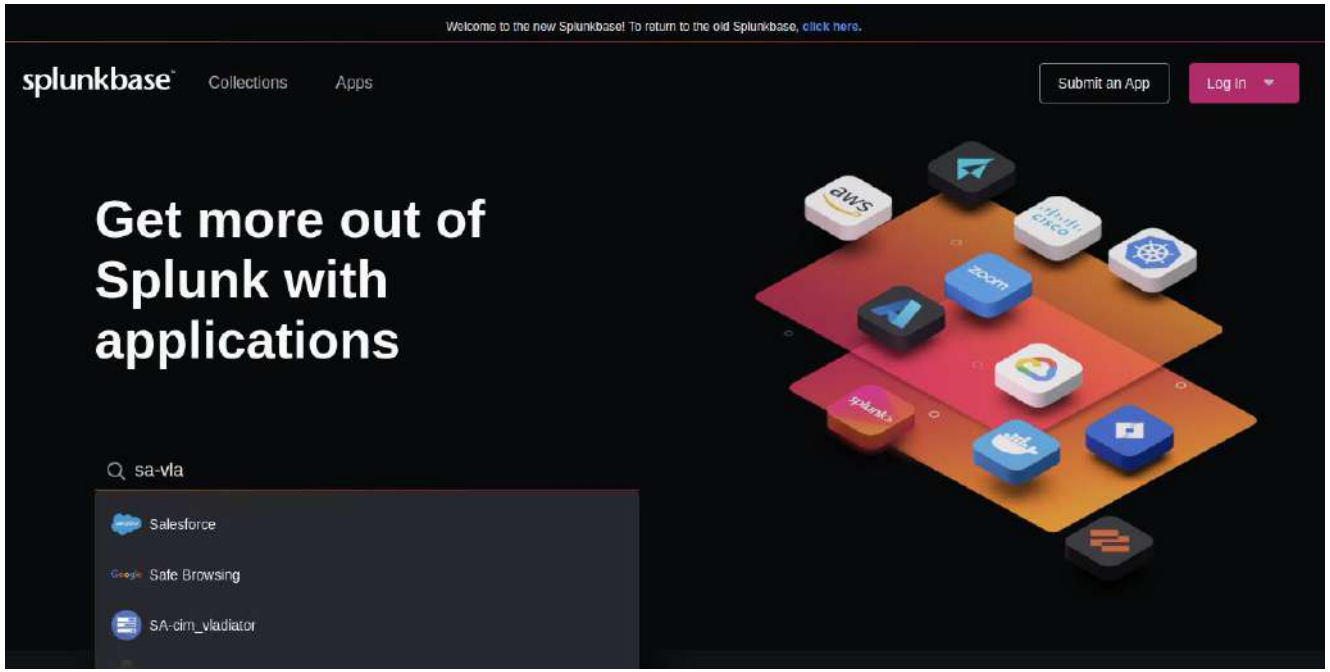
- Last roughly 60-75 minutes
- Understand what makes up an app or TA, including files
- Experience how to install a complete app or TA in Enterprise OnPremise
- Experience how install a complete app or TA in Splunk Cloud
- Unable to provide examples of all of the ways to build and install, representative samples

What is an “app” or “TA” or “SA”?

- Apps are ways to define solutions for Splunk - can include:
  - Dashboards
  - Ingest configurations - including sourcetypes, fields, …
  - Modular inputs/scripts/REST interactions
  - Any set of configurations, can be partitioned off with permissions and role access
  - And any other settings …
- TA = Technology Add-on (TA-corelight)
  - Limited-scope, potentially reusable code/configuration extension, typically associated with an App, will frequently have custom commands included specific to a correlated app
- SA = Supporting Add-on (SA-cim_vladiator)
  - Sets of configurations that can be used with other apps, frequently include custom commands, but not as tightly correlated to other apps

What are Splunk Apps and Add-Ons ?	https://www.splunk.com/en_us/blog/tips-and-tricks/what-are-splunk-apps-and-add-ons.html
What is a Splunk app?	https://dev.splunk.com/enterprise/docs/welcome/#What-is-a-Splunk-app
Developing Views and Apps for Splunk Web	https://docs.splunk.com/Documentation/Splunk/latest/AdvancedDev/Whatsinthismanual
Apps and add-ons	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Whatsanapp

Splunkbase?



- Thousands of apps/TAs/SAs have been created
- Many supported by Splunk
- Many NOT supported by Splunk
- Available from https://splunkbase.splunk.com with login auth: splunk.com
- Provides official access to apps, includes checksum validation
- Splunk-supported, developer-supported, unsupported
  - Developer-supported - meeting a specific need
  - Many created by other corporations - for example - Palo Alto

Not Splunkbase?

- Private app/TAs/SAs
- Made to specific requirements for each customer
- Entirely customizable to customer needs
- Supported by the customer

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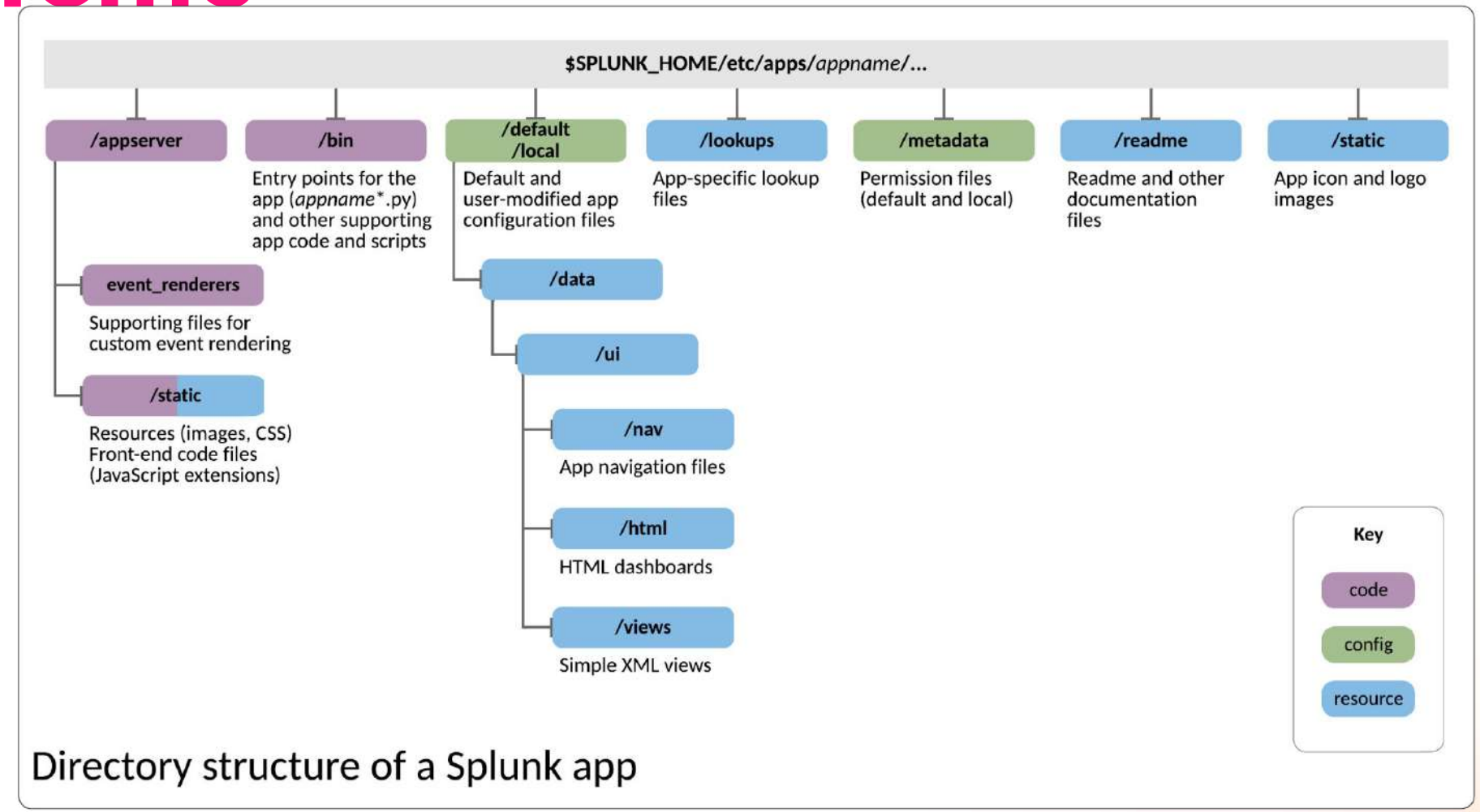
What makes an app?

- Files, files, files …
  - .conf - many, many .conf files
  - inputs.conf, macros.conf, savedsearches.conf …
  - $SPLUNK_HOME/etc/apps/App_name/default, …/local, …/metadata, …/lookups, …/bin, …/appserver
- Binaries/scripts for the relevant OS to accomplish specific tasks
- REST call definitions to other compute resources
- Database calls to database environments
- Schedules
- Dashboard definitions in either JSON or XML

What is a Splunk app?	https://dev.splunk.com/enterprise/docs/welcome/#What-is-a-Splunk-app
Developing Views and Apps for Splunk Web	https://docs.splunk.com/Documentation/Splunk/latest/AdvancedDev/Whatsinthismanual
Getting Data In	https://docs.splunk.com/Documentation/Splunk/latest/Data/Usingapps
Developing a Private App for Splunk Cloud Platform	https://docs.splunk.com/Documentation/SplunkCloud/latest/DevApp/Overview

App contents

- Based on location of files in the hierarchy under $SPLUNK_HOME/etc/apps (or peer-apps, shcluster/apps …)

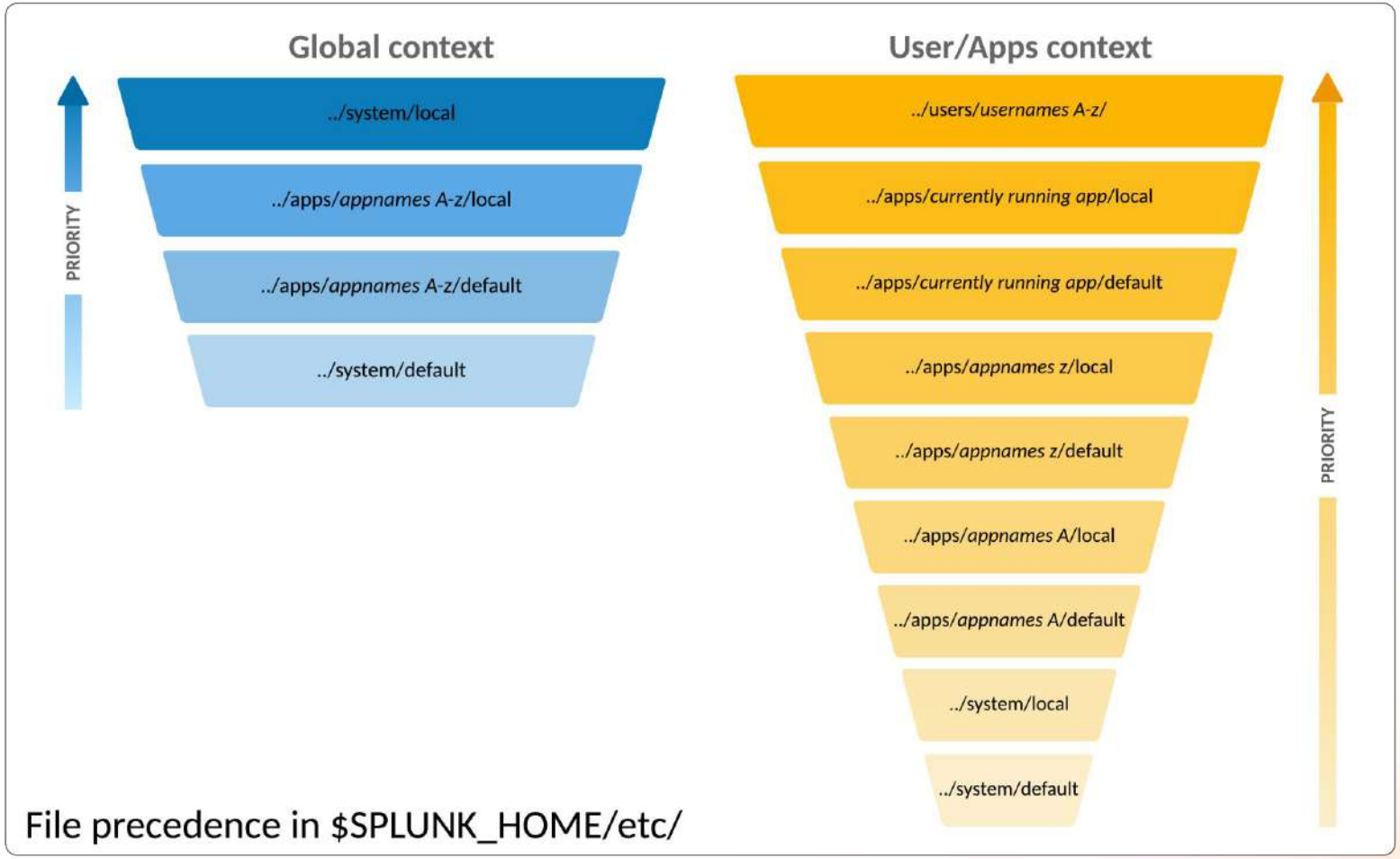


Directory structure of a Splunk app

Understand file precedence in apps for Splunk Cloud Platform or Splunk Enterprise	https://dev.splunk.com/enterprise/docs/developapps/manageknowledge/fileprecedence/
Configuration file precedence	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Wheretofindtheconfigurationfiles

App context - Precedence

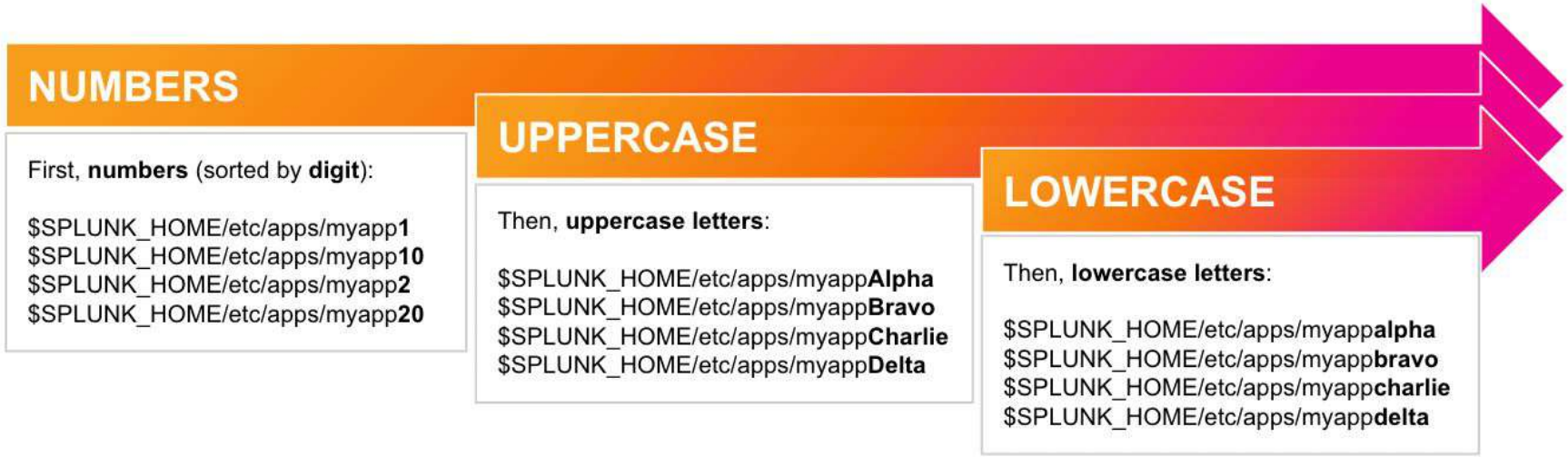
- How are apps “layered”
- Based on location of files in the hierarchy under $SPLUNK_HOME/etc



Understand file precedence in apps for Splunk Cloud Platform or Splunk Enterprise	https://dev.splunk.com/enterprise/docs/developapps/manageknowledge/fileprecedence/
Configuration file precedence	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Wheretofindtheconfigurationfiles

App context - Precedence and Naming

- How are apps “layered”
- Based on location of files in the hierarchy under $SPLUNK_HOME/etc
- And the name of the app …



- Suggestion for naming convention
  - <company|department_name>_<purpose>_<(app|add-on|function)>

Naming conventions	https://lantern.splunk.com/Splunk_Success_Framework/Data_Management/Naming_conventions
Understand file precedence in apps for Splunk Cloud Platform or Splunk Enterprise	https://dev.splunk.com/enterprise/docs/developapps/manageknowledge/fileprecedence/
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App context - Demonstration

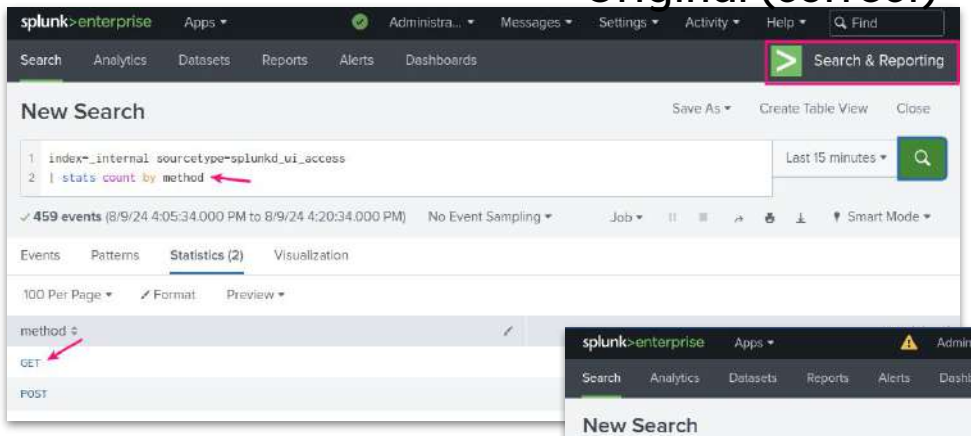
- See a field description in global vs. app context

default.meta.conf	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Defaultmetaconf

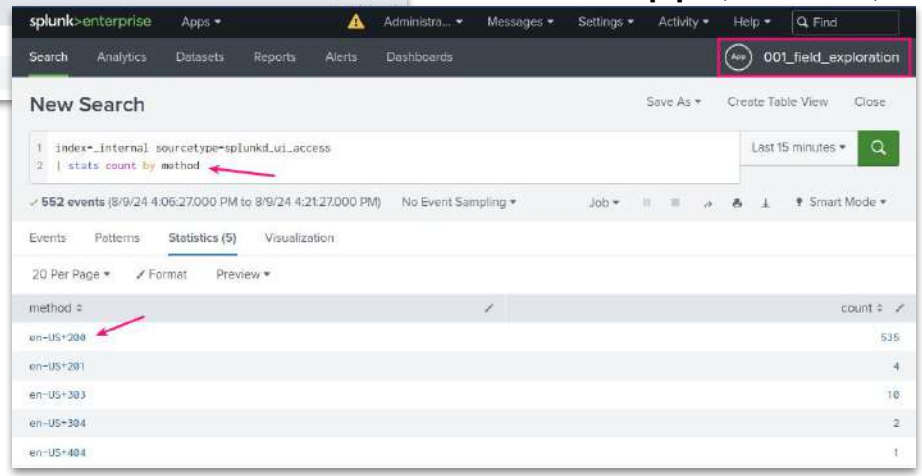
App context - Demonstration

- See a field description in global vs. app context

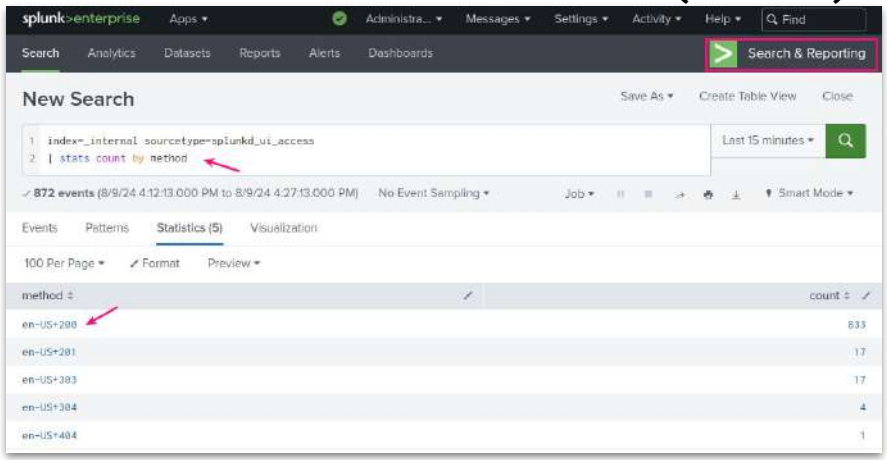
Original (correct)



In app (broken)



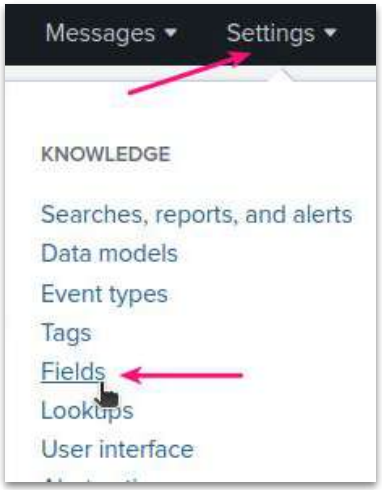
Global (broken)

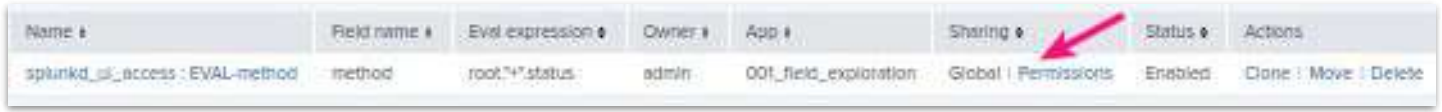


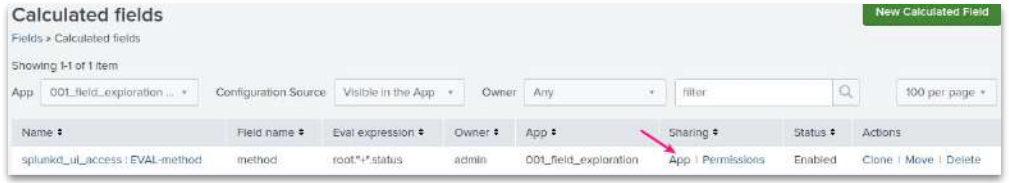
default.meta.conf	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Defaultmetaconf

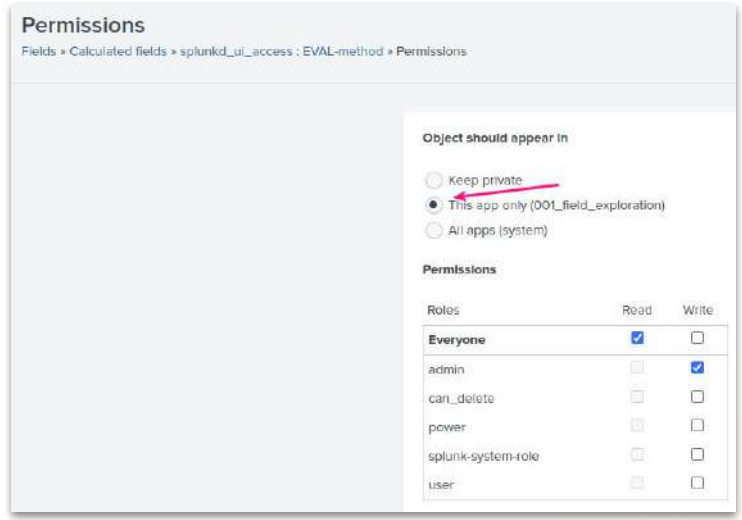
App context - Demonstration

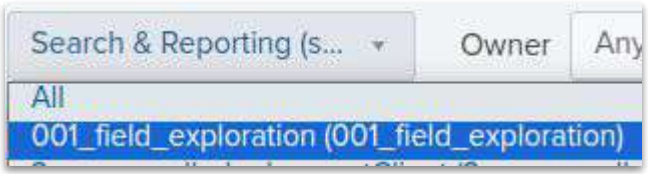
- See a field description in global vs. app context











Manage knowledge object permissions	https://docs.splunk.com/Documentation/SplunkCloud/latest/Knowledge/Manageknowledgeobjectpermissions
Manage app permissions in Splunk Cloud Platform	https://docs.splunk.com/Documentation/SplunkCloud/9.2.2403/Config/ManageAppPermissions
default.meta.conf	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Defaultmetaconf

App context - btool

- Btool is your friend … but only for Enterprise OnPremise

*nix example	Windows example
`./splunk btool inputs list --debug | grep splunktcp`	`splunk btool inputs list --debug | findstr splunktcp`

Use btool to troubleshoot configurations	https://docs.splunk.com/Documentation/Splunk/9.3.0/Troubleshooting/Usebtooltotroubleshootconfigurations
Configuration file precedence	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Wheretofindtheconfigurationfiles
Adminitrative CLI commands	Link
Admins Little Helper for Splunk	https://splunkbase.splunk.com/app/6368

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Create an App

Methods and Locations…

- GUI create (Enterprise & Splunk Cloud)
- Add on Builder (Enterprise & Splunk Cloud)
- GUI upload (Enterprise & Splunk Cloud)
- CLI / REST upload (Enterprise only)
- Copy into location and restart (Enterprise only)
- ACS install - API install via upload and for Splunkbase (Splunk Cloud only)

Locations

- Stand-alone search head or indexer, Monitoring Console or Cluster Manager - $SPLUNK_HOME/etc/apps
- Cluster Manager (for apps to be pushed to indexers) - $SPLUNK_HOME/etc/manager-apps
- Deployment Server (for apps to be pushed to forwarders) - $SPLUNK_HOME/etc/deployment-apps
- Search head Deployer (for apps to be pushed ot the search head cluster members) - $SPLUNK_HOME/etc/shcluster/apps

Naming conventions	https://lantern.splunk.com/Splunk_Success_Framework/Data_Management/Naming_conventions
Configuration file directories	https://docs.splunk.com/Documentation/Splunk//Admin/Configurationfiledirectories

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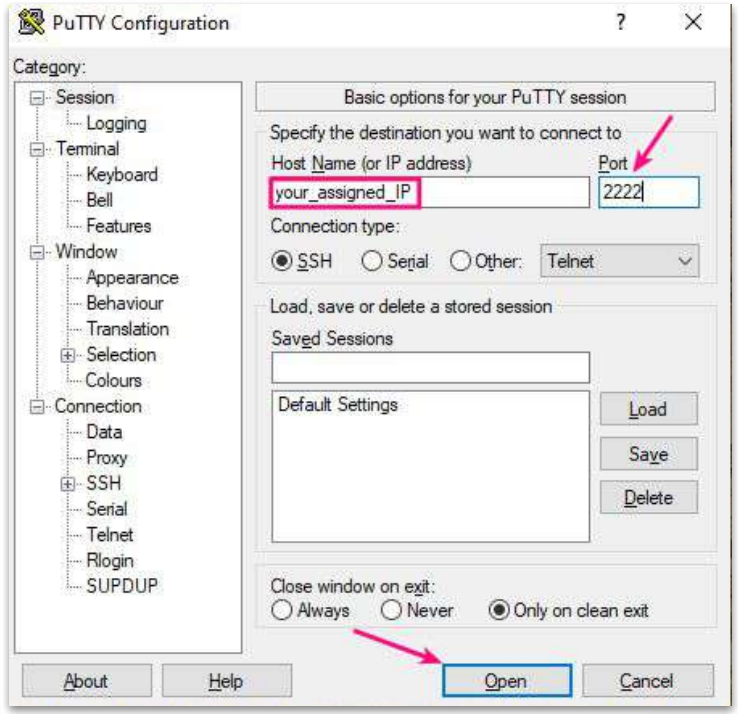
Create an App

Access the node assigned via ssh

- Linux and macOS - note the lowercase “p”
  - `ssh -p 2222 splunk@<your_assigned_IP|hostname>`
- Remember - change the <your_assigned_IP> to the IP you were assigned from Splunk Show…

- Windows - you don’t have to care about CLI parameters …



What is SSH (Secure Shell)?	https://www.ssh.com/academy/ssh
Download PuTTY: latest release	https://putty.org/

Create an App

Upload via CLI … sequence and review what happened

```
splunk@s4a-a-aio01:/opt$ /opt/showlab/s4a-a-aio01/splunk/bin/splunk install app /tmp/fin_user_viz.tgz -auth admin:5p1unk.conf
WARNING: Server Certificate Hostname Validation is disabled. Please see server.conf/[sslConfig]/cliVerifyServerName for details.
App '/tmp/fin_user_viz.tgz' installed
```

```
default  metadata  README  static
splunk@s4a-a-aio01:/opt/showlab/s4a-a-aio01/splunk/etc/apps/fin_user_viz$ find -ls
  1581890      4 drwxr-xr-x   5 splunk   splunk       4096 Aug 13 20:03 .
  1581892      4 drwxr-xr-x   2 splunk   splunk       4096 Aug 13 20:03 ./metadata
  1581275      4 -rw-------   1 splunk   splunk         85 Aug 13 20:03 ./metadata/local.meta
  1581897      4 -rw-r--r--   1 splunk   splunk        101 Aug 13 20:03 ./metadata/default.meta
  1581898      4 drwxr-xr-x   3 splunk   splunk       4096 Aug 13 20:03 ./default
  1581900      4 drwxr-xr-x   3 splunk   splunk       4096 Aug 13 20:03 ./default/data
  1581902      4 drwxr-xr-x   4 splunk   splunk       4096 Aug 13 20:03 ./default/data/ui
  1581903      4 drwxr-xr-x   2 splunk   splunk       4096 Aug 13 20:03 ./default/data/ui/views
  1581904      4 -rw-r--r--   1 splunk   splunk       1361 Aug 13 20:03 ./default/data/ui/views/splunk_ps__users_and_roles.xml
  1581905      4 drwxr-xr-x   2 splunk   splunk       4096 Aug 13 20:03 ./default/data/ui/nav
  1581906      4 -rw-r--r--   1 splunk   splunk        233 Aug 13 20:03 ./default/data/ui/nav/default.xml
  1581265      4 -rw-------   1 splunk   splunk        382 Aug 13 20:03 ./default/app.conf
  1581912      4 -rw-r--r--   1 splunk   splunk        139 Aug 13 20:03 ./README
  1581913      4 drwxr-xr-x   2 splunk   splunk       4096 Aug 13 20:03 ./static
  1581914      4 -rw-------   1 splunk   splunk       1902 Aug 13 20:03 ./static/appIcon_2x.png
  1581915      4 -rw-------   1 splunk   splunk        639 Aug 13 20:03 ./static/appIcon.png
splunk@s4a-a-aio01:/opt/showlab/s4a-a-aio01/splunk/etc/apps/fin_user_viz$
```

Administer Splunk Enterprise with the command line interface (CLI)	https://docs.splunk.com/Documentation/Splunk/latest/Admin/AbouttheCLI

Create an App

Upload via CLI … review file contents

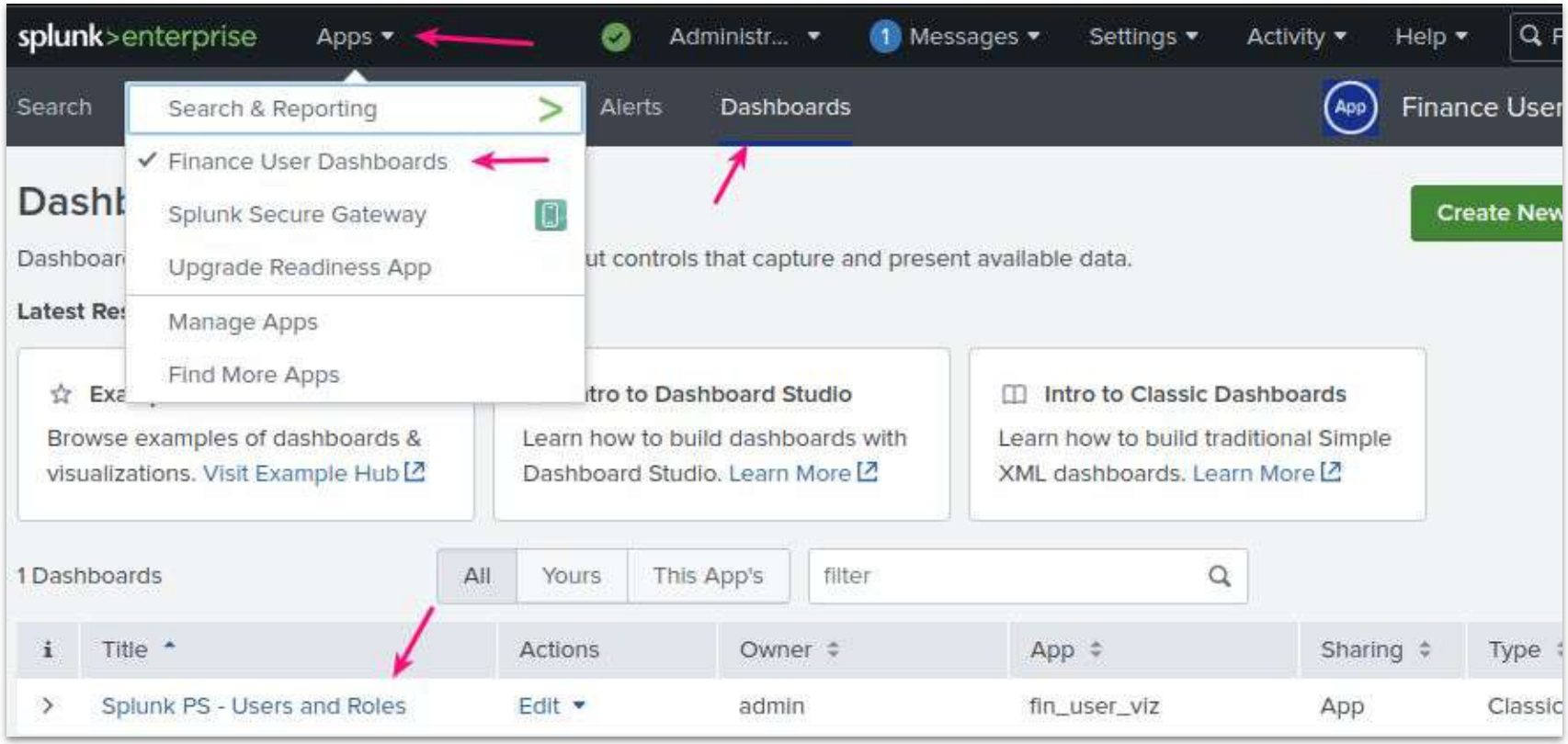
```
splunk@show-no-config-i-01e760ef443ed0e19:/opt/splunk/etc/apps$ more /opt/splunk/etc/apps/fin_user_viz/metadata/default.meta
# Application-level permissions

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

```
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 = 97fea7989bcdfcfe8ae3178843cd5cd5e7384ba0

[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
```

Administer Splunk Enterprise with the command line interface (CLI)	https://docs.splunk.com/Documentation/Splunk/latest/Admin/AbouttheCLI

Create an App

Upload via CLI … validate the new app and dashboard



Administer Splunk Enterprise with the command line interface (CLI)	https://docs.splunk.com/Documentation/Splunk/latest/Admin/AbouttheCLI

Create an App

Copy into location … sequence of events

1.
```
splunk@s4a-a-aio01:/opt/showlab$ cp -rp /opt/showlab/APPS-s4a-apps/fin_weblogs_indexes/ /opt
/showlab/s4a-a-aio01/splunk/etc/apps/
```

2.
```
splunk@s4a-a-aio01:/opt/showlab$ more /opt/showlab/s4a-a-aio01/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
```

3.
```
splunk@s4a-a-aio01:/opt/showlab$ more /opt/showlab/s4a-a-aio01/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/colddb
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
```

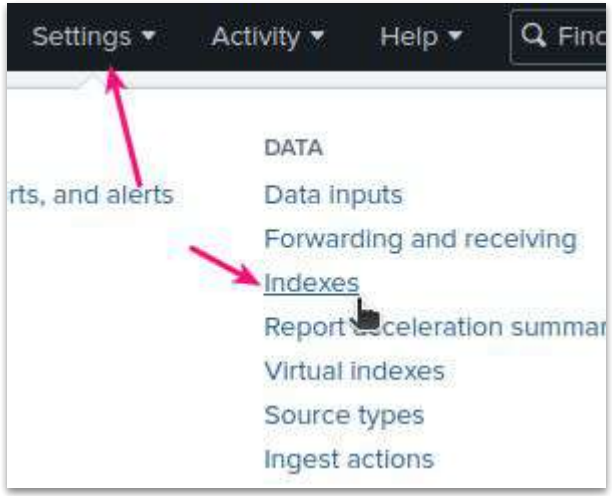
4.
```
splunk@s4a-a-aio01:/opt/showlab$ more /opt/showlab/s4a-a-aio01/splunk/etc/apps/
fin_weblogs_indexes/metadata/local.meta
[]
access = read : [ * ], write : [ admin ]
export = system
```

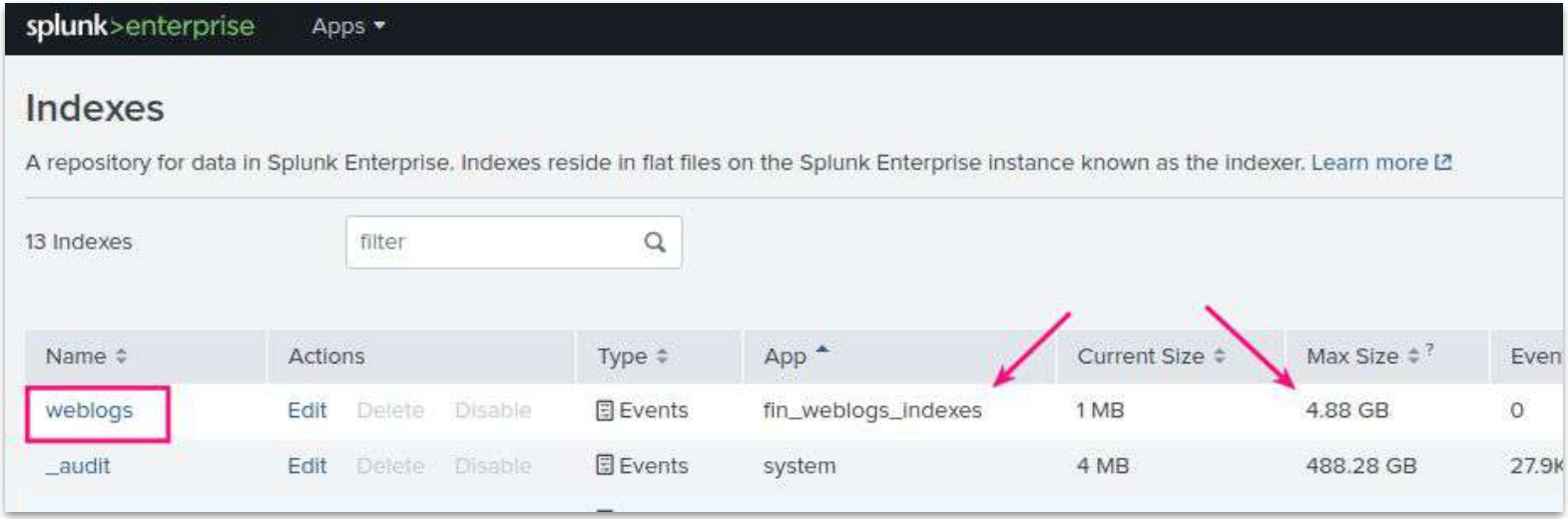
5.
```
splunk@s4a-a-aio01:/opt$ /opt/showlab/s4a-a-aio01/splunk/bin/splunk restart
Stopping splunkd...
Shutting down.  Please wait, as this may take a few minutes.
...
Stopping splunk helpers...
```

Configuration file directories	https://docs.splunk.com/Documentation/Splunk//Admin/Configurationfiledirectories
Edit the configuration file settings directly	Link

Create an App

Copy into location … validate





Configuration file directories	https://docs.splunk.com/Documentation/Splunk//Admin/Configurationfiledirectories
Edit the configuration file settings directly	Link

Workshop Agenda

- Discuss Who? What? Why?
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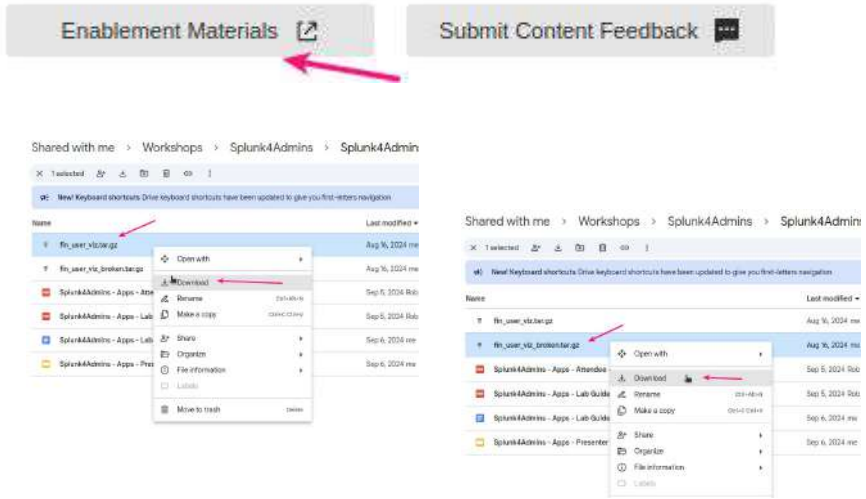
  - Splunk Cloud
    - Upload to Cloud via GUI - Lab 4
    - AppInspect vetting
- Summary

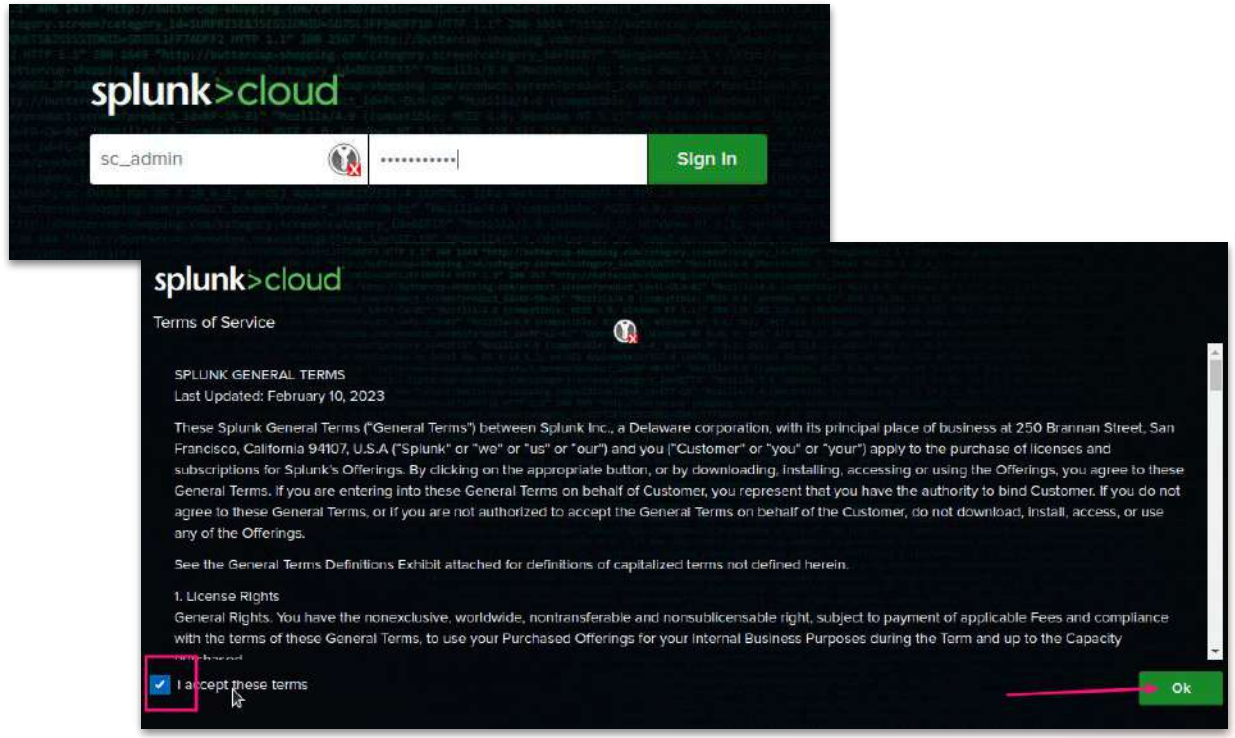
Create an App

Upload to cloud

Download …



Login …

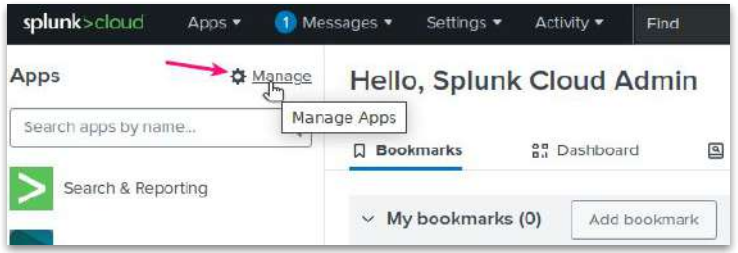


Overview of developing a private Splunk Cloud Platform app	https://docs.splunk.com/Documentation/SplunkCloud/latest/DevApp/Overview
Manage private apps on your Splunk Cloud Platform deployment	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps
Install a private app on Victoria Experience	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps#:~:text=Platform%20Experience.-,Install%20a%20private%20app%20on%20Victoria%20Experience.-If%20your%20Splunk

Create an App

Upload to cloud

1.



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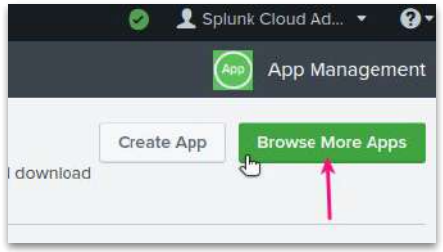

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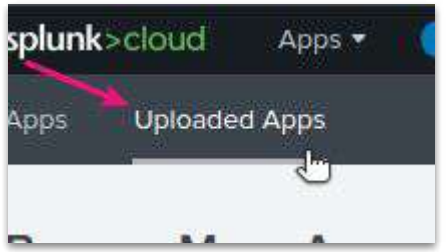

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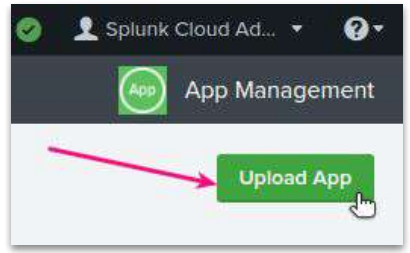

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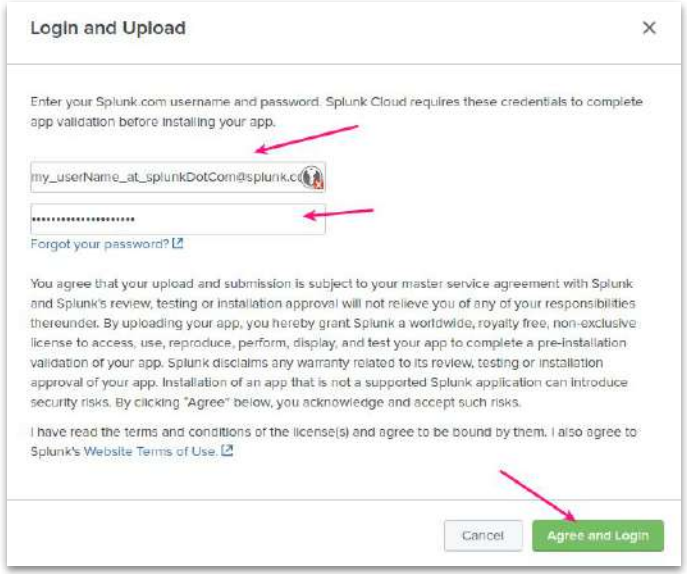

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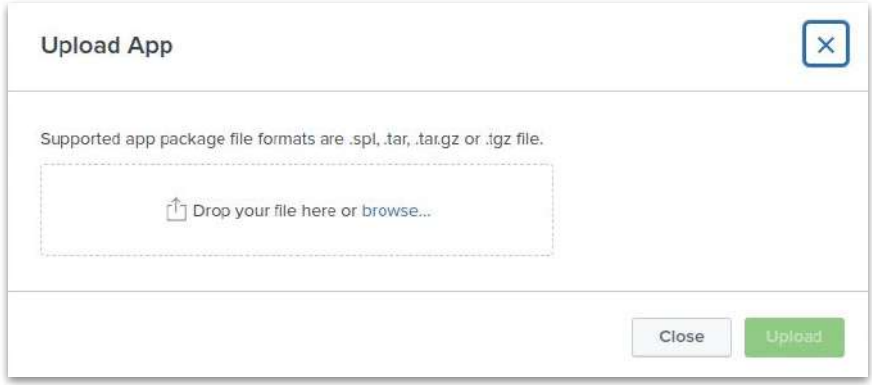
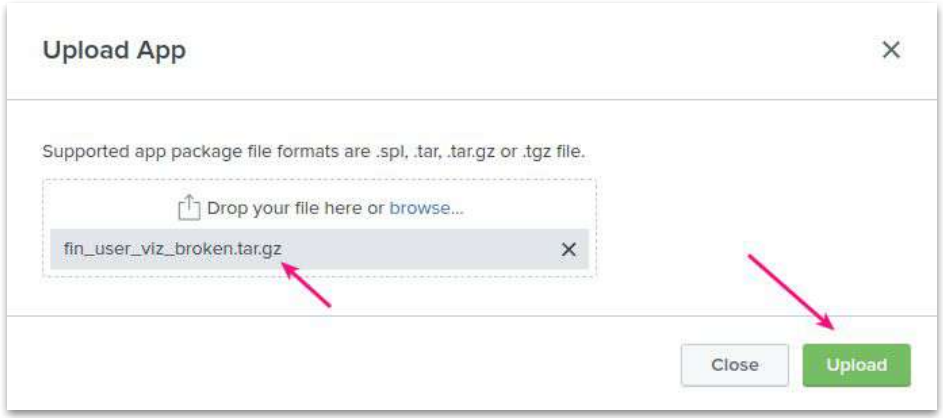


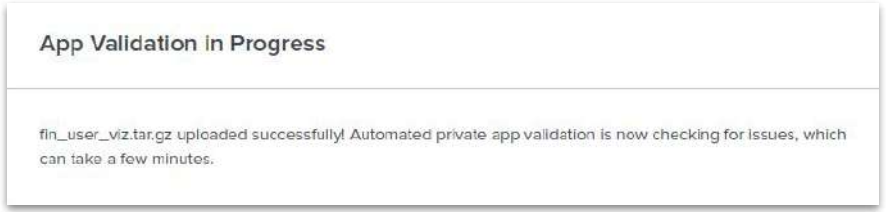
Manage private apps on your Splunk Cloud Platform deployment	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps
Deploy and manage private apps in Splunk Cloud Platform	https://dev.splunk.com/enterprise/docs/releaseapps/manageprivatecloud/
Install a private app on Victoria Experience	Link

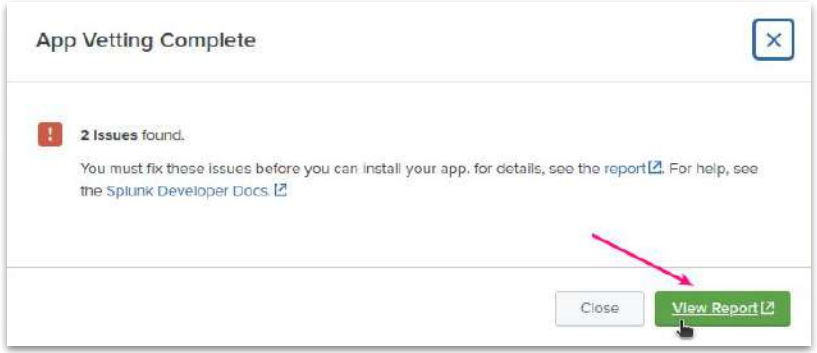
Create an App

Upload to cloud

6.



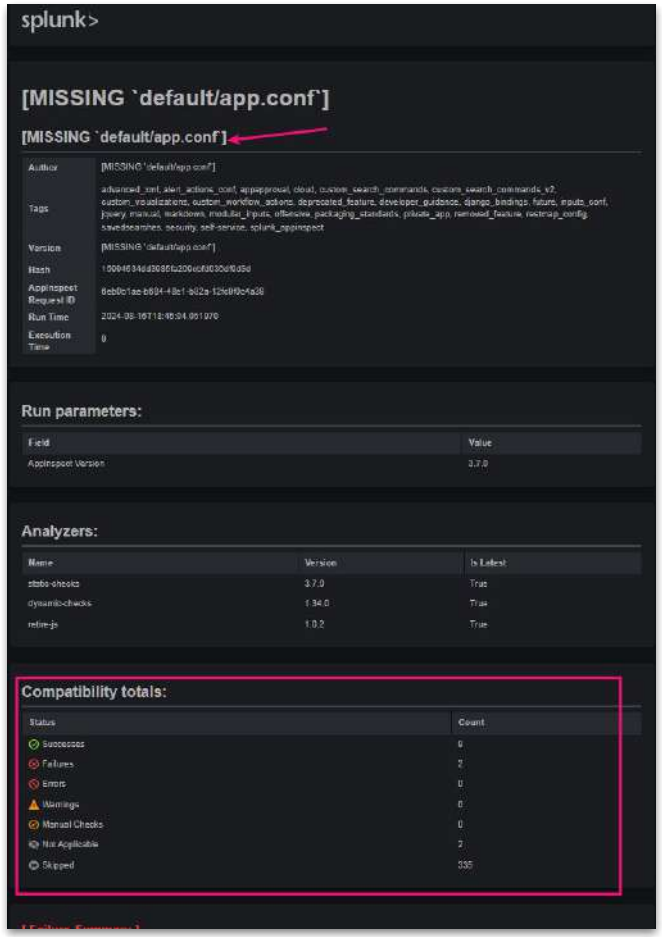


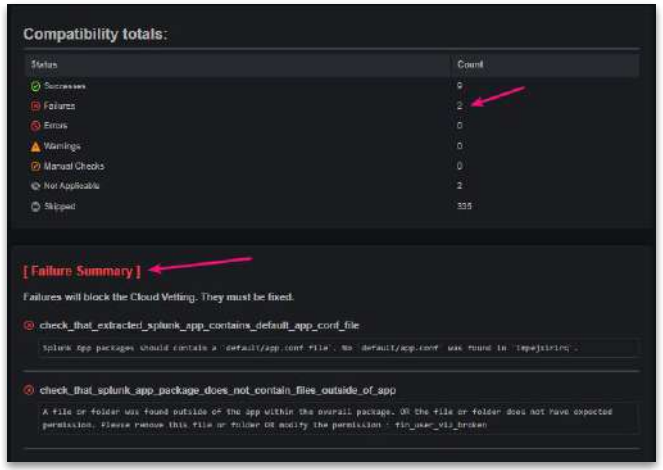


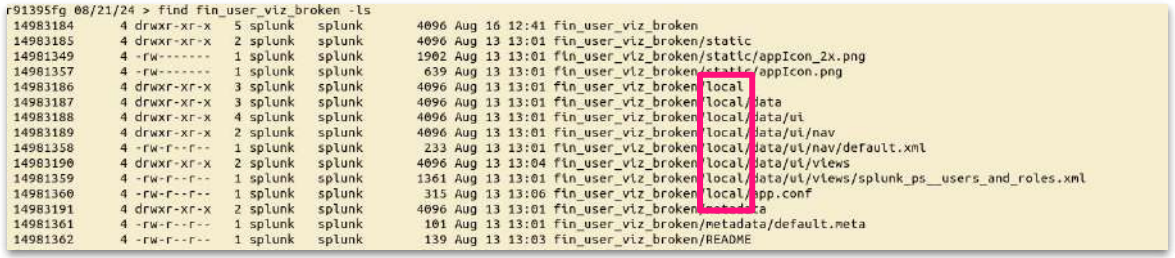
Manage private apps on your Splunk Cloud Platform deployment	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps
Deploy and manage private apps in Splunk Cloud Platform	https://dev.splunk.com/enterprise/docs/releaseapps/manageprivatecloud/
Install a private app on Victoria Experience	Link

Create an App

AppInspect





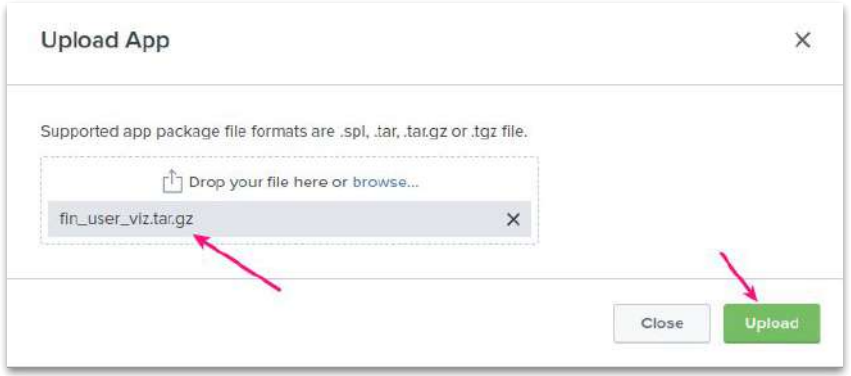


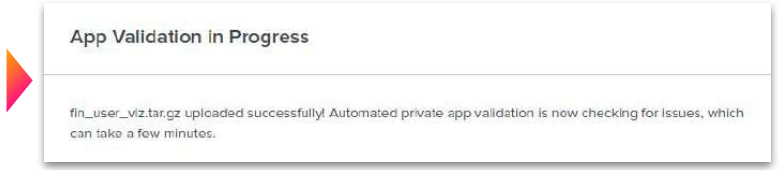
Manage private apps on your Splunk Cloud Platform deployment	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps
Deploy and manage private apps in Splunk Cloud Platform	https://dev.splunk.com/enterprise/docs/releaseapps/manageprivatecloud/
Install a private app on Victoria Experience	Link

Create an App

Upload to cloud… a correctly built app

6.





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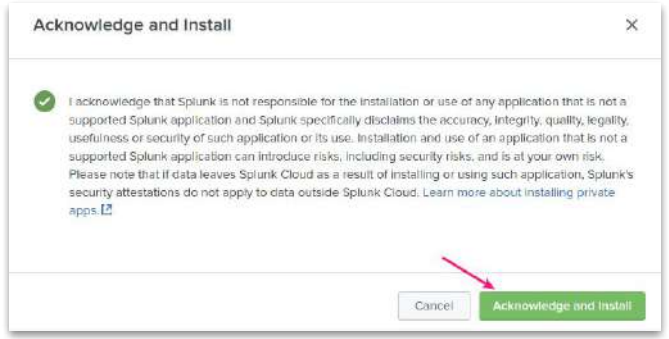

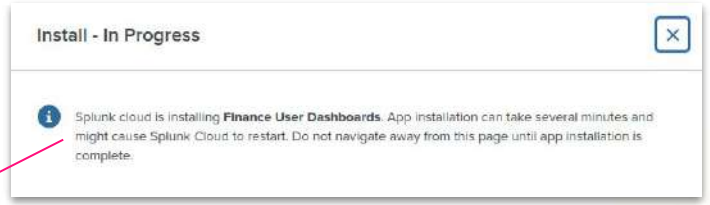

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14983177      4 drwxr-xr-x   2 splunk   splunk       4096 Aug 13 13:01 fin_user_viz/static
14981394      4 -rw-------   1 splunk   splunk       1902 Aug 13 13:01 fin_user_viz/static/appIcon_2x.png
14981393      4 -rw-------   1 splunk   splunk        639 Aug 13 13:01 fin_user_viz/static/appIcon.png
14983171      4 drwxr-xr-x   3 splunk   splunk       4096 Aug 13 13:01 fin_user_viz/default
14983172      4 drwxr-xr-x   3 splunk   splunk       4096 Aug 13 13:01 fin_user_viz/default/data
14983173      4 drwxr-xr-x   4 splunk   splunk       4096 Aug 13 13:01 fin_user_viz/default/data/ui
14983174      4 drwxr-xr-x   2 splunk   splunk       4096 Aug 13 13:01 fin_user_viz/default/data/ui/nav
14981348      4 -rw-r--r--   1 splunk   splunk        233 Aug 13 13:01 fin_user_viz/default/data/ui/nav/default.xml
14983175      4 drwxr-xr-x   2 splunk   splunk       4096 Aug 13 13:04 fin_user_viz/default/data/ui/views
14981384      4 -rw-r--r--   1 splunk   splunk       1361 Aug 13 13:01 fin_user_viz/default/data/ui/views/splunk_ps__users_and_roles.xml
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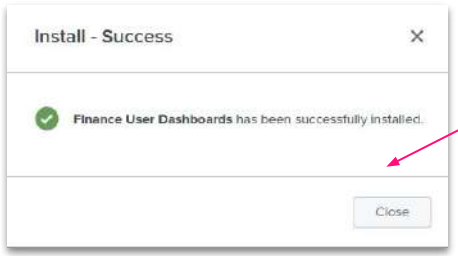

Manage private apps on your Splunk Cloud Platform deployment	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps
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Install a private app on Victoria Experience	Link

Create an App

AppInspect Vetting - Common issues

- ‘local’ vs. ‘default
  - Files in a ‘local’ directory, should be only in ‘default’
- default/app.local
  - Required file, name must match and unique version
- metadata/default.meta
  - Permissions file - write for specific teams only, reasonable no-write in Splunk Cloud Production
- Modular inputs/scripts detected
  - Automated acceptance of scripts not permitted, manual process
- Files in non-standard locations
  - default, appserver, bin, lookups, metadata, static permitted - as well as README

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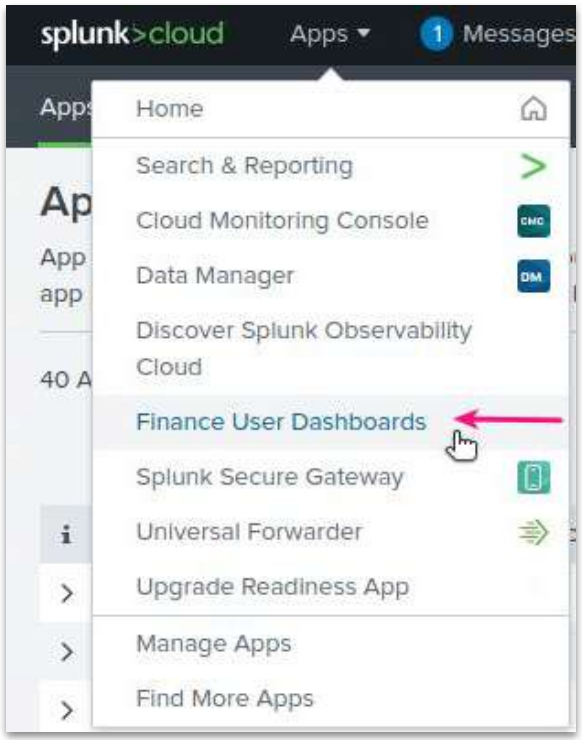
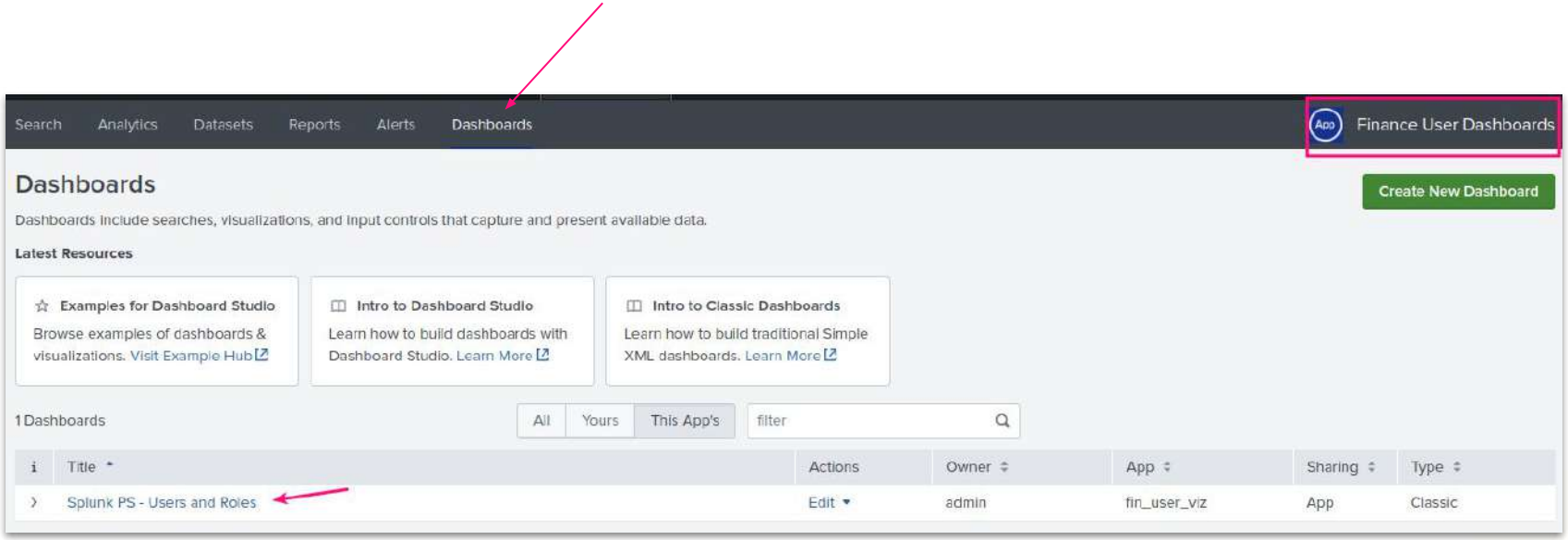
Validate Splunk Apps in Enterprise and Spunk Cloud	https://dev.splunk.com/enterprise/docs/developapps/testvalidate/appinspect/

Create an App

Upload to cloud… a correctly build app





Validate the quality of Splunk apps and add-ons for Splunk Cloud Platform or Splunk Enterprise using Splunk AppInspect	https://dev.splunk.com/enterprise/docs/developapps/testvalidate/appinspect/
Manage private apps on your Splunk Cloud Platform deployment	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps

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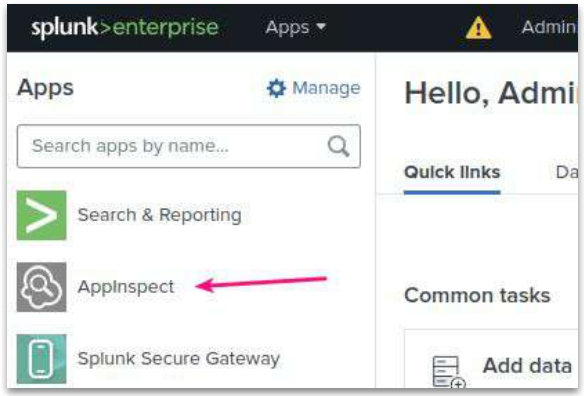
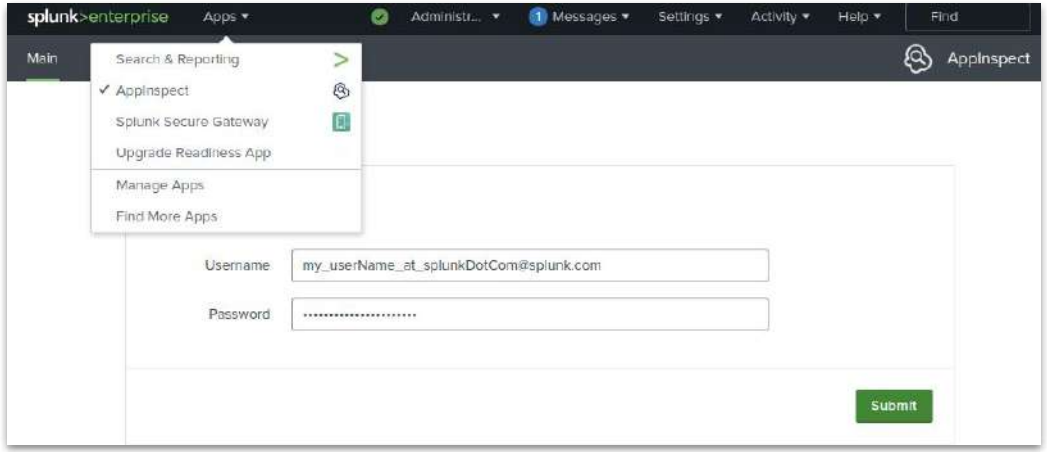
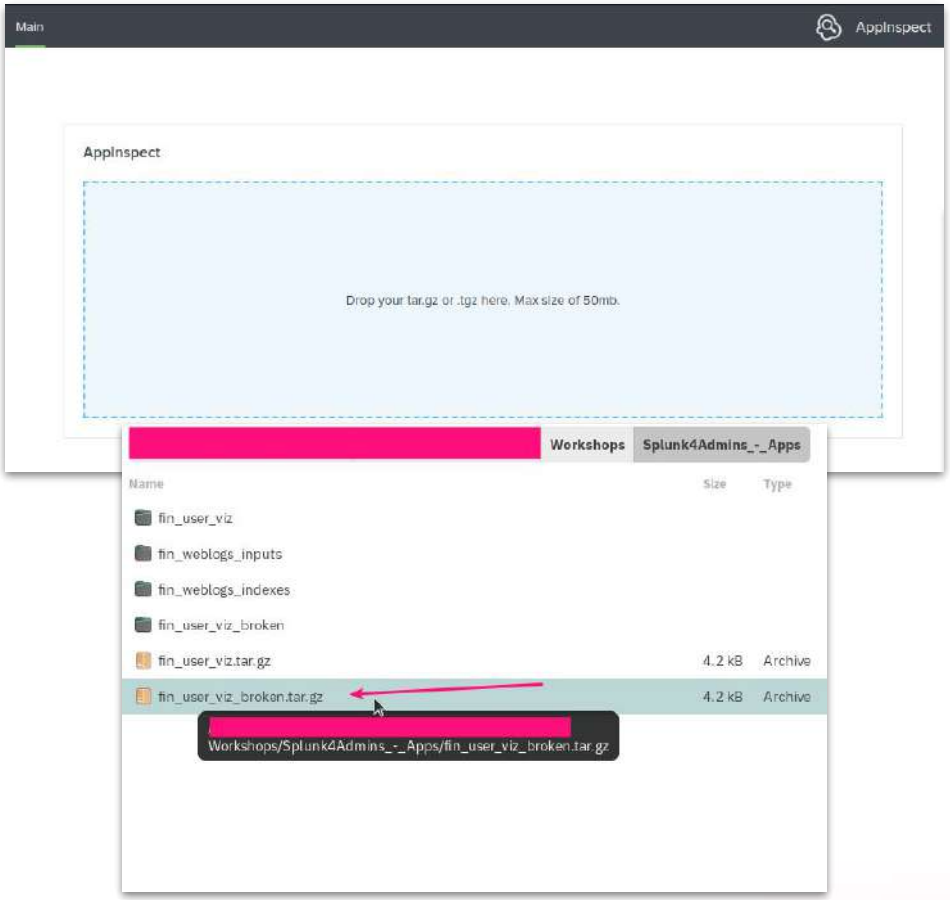
Create an App



The on-premise app AppInspect is NOT Splunk supported, and not available in Splunk Cloud





AppInspect App for Splunk	https://splunkbase.splunk.com/app/3956

Create an App

AppInspect - Enterprise

- Ensure consistency
- Ensure function
- Provide off-Cloud development (if needed)
- Ensure that apps developed can be migrated with ease

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Summary

Splunk Apps

- What makes an app?
- App precedence
- How to create an app
  - Locations
  - In Enterprise
  - In Splunk Cloud
- AppInspect

Links

What are Splunk Apps and Add-Ons ?	https://www.splunk.com/en_us/blog/tips-and-tricks/what-are-splunk-apps-and-add-ons.html
What is a Splunk app?	https://dev.splunk.com/enterprise/docs/welcome/#What-is-a-Splunk-app
Developing Views and Apps for Splunk Web	https://docs.splunk.com/Documentation/Splunk/latest/AdvancedDev/Whatsinthismanual
Apps and add-ons	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Whatsanapp
Getting Data In	https://docs.splunk.com/Documentation/Splunk/latest/Data/Usingapps
Manage knowledge object permissions	https://docs.splunk.com/Documentation/SplunkCloud/latest/Knowledge/Manageknowledgeobjectpermissions
Manage app permissions in Splunk Cloud Platform	https://docs.splunk.com/Documentation/SplunkCloud/9.2.2403/Config/ManageAppPermissions
Developing a Private App for Splunk Cloud Platform	https://docs.splunk.com/Documentation/SplunkCloud/latest/DevApp/Overview
Deploy and manage private apps in Splunk Cloud Platform	https://dev.splunk.com/enterprise/docs/releaseapps/manageprivatecloud/
Splunk Add-on Builder	https://splunkbase.splunk.com/app/2962
Splunk Cloud Platform Admin Manual	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/SelfServiceAppInstall
Splunkbase Home	https://splunkbase.splunk.com/
Understand file precedence in apps for Splunk Cloud Platform or Splunk Enterprise	https://dev.splunk.com/enterprise/docs/developapps/manageknowledge/fileprecedence/
Configuration file precedence	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Wheretofindtheconfigurationfiles
Use btool to troubleshoot configurations	https://docs.splunk.com/Documentation/Splunk/latest/Troubleshooting/Usebtooltotroubleshootconfigurations
Admins Little Helper for Splunk	https://splunkbase.splunk.com/app/6368
Administrative CLI commands	https://docs.splunk.com/Documentation/Splunk/latest/Admin/CLIadmincommands#:~:text=poll%20bologna%3A1234-,show,-config%2C%20cluster%2Dbundle
Naming conventions	https://lantern.splunk.com/Splunk_Success_Framework/Data_Management/Naming_conventions
Install App via Command Line	https://docs.splunk.com/Documentation/Splunk/latest/Admin/CLIadmincommands#:~:text=tmp/export.dat-.install.-app
Admin Config Service Manual	https://docs.splunk.com/Documentation/SplunkCloud//Config/ACSIntro
default.meta.conf	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Defaultmetaconf
app.conf	https://docs.splunk.com/Documentation/Splunk/latest/Admin/appconf
App deployment overview	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Deployappsandadd-ons
Administer Splunk Enterprise with the command line interface (CLI)	https://docs.splunk.com/Documentation/Splunk/latest/Admin/AbouttheCLI
Configuration file directories	https://docs.splunk.com/Documentation/Splunk//Admin/Configurationfiledirectories
Edit the configuration file settings directly	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Aboutconfigurationfiles#:~:text=system/default.-,Edit%20the%20configuration%20file%20settings%20directly.-While%20you%20can
Use the deployer to distribute apps and configuration updates	https://docs.splunk.com/Documentation/Splunk/latest/DistSearch/PropagateSHCconfigurationchanges
Update common peer configurations and app	https://docs.splunk.com/Documentation/Splunk/latest/Indexer/Updatepeerconfigurations
Administer Splunk Enterprise with configuration files	https://docs.splunk.com/Documentation/Splunk/latest/Admin/Aboutconfigurationfiles
Overview of developing a private Splunk Cloud Platform app	https://docs.splunk.com/Documentation/SplunkCloud/latest/DevApp/Overview
Manage private apps on your Splunk Cloud Platform deployment	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps
Deploy and manage private apps in Splunk Cloud Platform	https://dev.splunk.com/enterprise/docs/releaseapps/manageprivatecloud/
Install a private app on Victoria Experience	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/PrivateApps#:~:text=Platform%20Experience.-,Install%20a%20private%20app%20on%20Victoria%20Experience.-If%20your%20Splunk
Validate the quality of Splunk apps and add-ons for Splunk Cloud Platform or Splunk Enterprise using Splunk AppInspect	https://dev.splunk.com/enterprise/docs/developapps/testvalidate/appinspect/
AppInspect App for Splunk	https://splunkbase.splunk.com/app/3956
What is SSH (Secure Shell)?	https://www.ssh.com/academy/ssh
Download PuTTY: latest release	https://putty.org/

Thank you

splunk> a CISCO company