



Best Practices and Things Best Known

Staff Architect Eric Six

Shaun Bland | Cloud Advisory Engineer

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Just imagine...

The Adventure starts now...







Splunk > cloud

123/Category.screen?category_id=GIFTS&JSESSIONID=SDISL4FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/category.screen?category_id=GIFTS&JSESSIONID=SDISL4FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/category.screen?category.scr



Who We Are.. Eric Six

Splunk-ing over 6 years, 4+ years as a Splunker. Before that.. A very happy customer.

Based in Japan, covering Architecture all over Asia, Australia, and New Zealand

Architecting and Deploying solutions of all sorts and sizes



- ► Favorite Command : *tstats*
- ► Favorite App : ITSI!
- Hobbies: Anything Alpine, Everything Bourbon...
- Active Splunk Answers : esix_splunk



Who We Are.. Shaun Bland

Splunk for 1.5 years. Asia (Japan and Hong Kong) for 15 years.

Back in Texas for the last 1.5 years. Two little splunkers at home

Background in Cloud, Servers, Data Centers



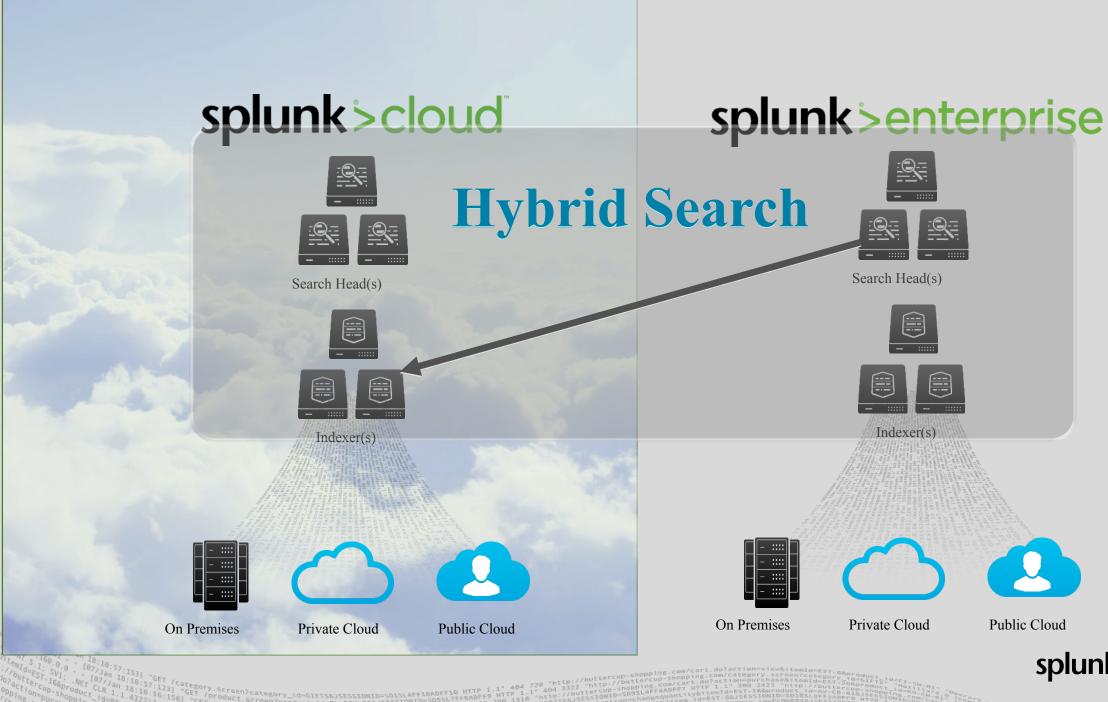
- Favorite thing to do: fix things
- Hobbies: Hike, bike, play poker with 7yr old
- Act as customer advocate for Splunk Cloud customers



Purpose and Agenda

- Splunk Cloud Architecture
 - Splunk Cloud Architecture vs On Premise Deployments
- Best Practices
 - Authentication Schemes / User Management
 - Forwarders / Aggregation Tier
 - Knowledge Object and App Management
- New Features
- Working with Support







Splunk Cloud Deployments

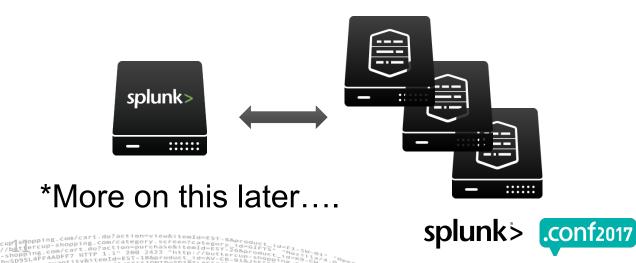
Self-Service

- Click through to purchase!
- ▶ Up to 25gb a Day
- Single Instance!
- https://prd-*.cloud.splunk.com



Managed*

- Have to contact sales...
- ► Full Index Cluster
- ▶ Up to **N** tb+ a Day
- Encryption at Rest (As an option!)
- https://*.splunkcloud.com



Managed Splunk

- Splunk's Responsibility
 - Splunk is UP and Running
 - Response Times
 - App and KO Management
 - Conf file changes

Patching and Upgrading!

- ▶ Your Responsibility
 - Search and Dashboard Management
 - Forwarder and Input Management
 - App Creation and Validation
 - Conf file creation and changes for data sources

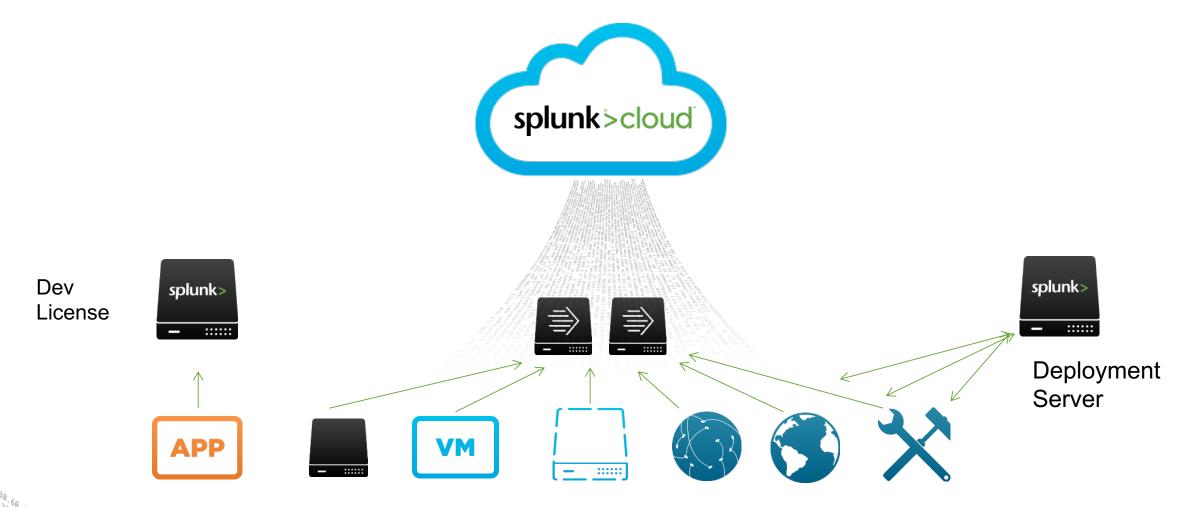


"The only true wisdom is in knowing you know nothing."



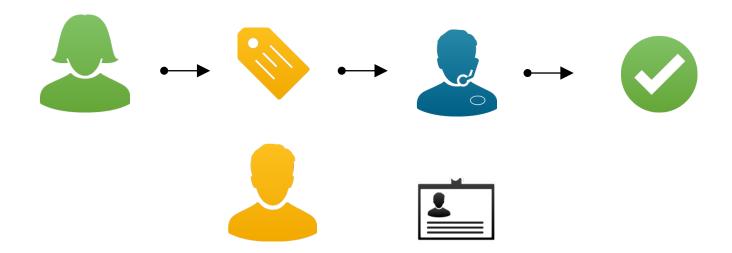


Ideal Deployment..



Authentication Methods

- Supported IDP: Ping, Okta, Azure AD, ADFS, Onelogin, Optimal, CA Siteminder
- ► SAML 2.0 Compliant it should work! Confirm on Splunk Docs!





Choosing your Forwarders..

Questions....

- Do I need a modular input? { DBX, AWS, EPO, OpsecLEA etc }
- Do I need to be able to Filter / Mask Data before it goes to the Cloud?
- Do I need a Deployment Server (DS) or a local License Master (LM)?



* General rule of thumb.. There are always exceptions... Ask the Experts.

Yes?

Heavy Forwarder!

No?

Universal Forwarder!



Building (better) Apps.. for the Cloud

Make Apps better... faster ... stronger



Splunk Cloud and Custom Apps

- All apps have to be vetted, and approved, before they can be Deployed!
- ► Vetting *DOES* takes time..

Make Apps according to Best Practices...

Requirements and Best Practices --(http://dev.splunk.com/view/app-cert/SP-CAAAE85)



App Vetting Process





^{*}Certified Apps are pre-approved

App Certification Criteria

- ► For 3rd party developers
- Revised set of guidelines
 - 100+ specific best-practice guidelines
- Guidelines focus on:

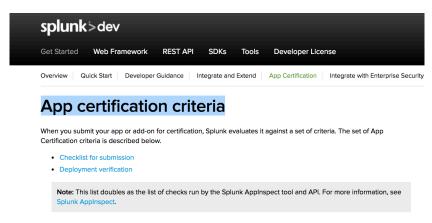
Security

Quality

Good Form

Certified App displayed with a certification mark on Splunkbase

/product.screen?product_id=FL-DSH-01&JSESSIONID=SD3_HTTP 1.1"



Checklist for submission

28 February, 2017 (v1.4.0)

App.conf standards

The ${\tt app.conf}$ file located in the ${\tt default}$ folder provides key application information and branding.

Splunkbase	App Certification	Description
	×	Check that the app.conf file contains an application version number.
	x	Check that the default/app.conf setting is_configured is set to False.

Application Content Structure Standards

Splunkbase	App Certification	Description
	×	Check that static/appIcon_2x is 72x72px or less.



Splunk App Vetting

New

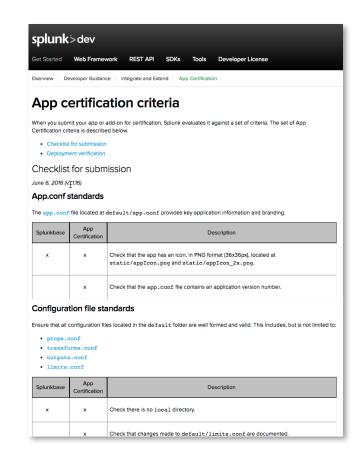
App Vetting is process for ensuring Apps submitted by customers meet guidelines for Splunk Cloud

App Vetting and App Certification have unified criteria on:

☑ Security

☑ Quality

☐ Good Form



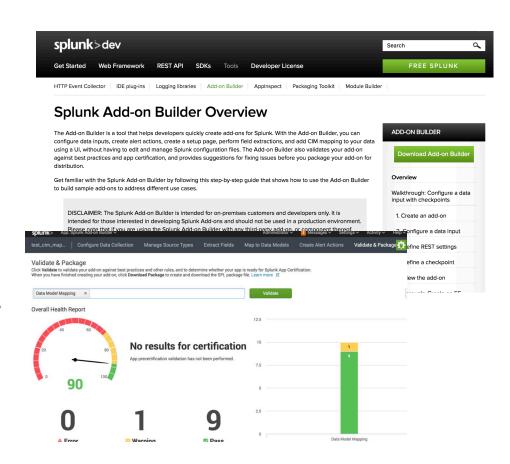


Make those Apps!

Add-on Builder is Totally Awesome!

GUI Creation of—

- Basic Data Inputs!
- FEX! CIM Mapping
- Advanced Inputs { REST / HEC / Python etc}
- Adaptive Response Actions!





(Some) Reasons Apps Fail..

- No Compiled Executables!
- No indexes.conf!
- ▶ All outbound communication needs to be *encrypted*!
- All objects must be within the App Context!
- Custom scripts must be limited to Splunk's internal python!
- Credentials MUST be encrypted!
- No file system / process manipulation is allows (Only lookups / KV Store)

*Full list is available at : http://dev.splunk.com/view/app-cert/SP-CAAAE2S



App Management..

Production

- Use a DS
- Inspect the app yourself!
- make them your own

Development

- Dev environment for apps!
- TA Builder!
- Use a non-production index
- Version control
- Best Practices





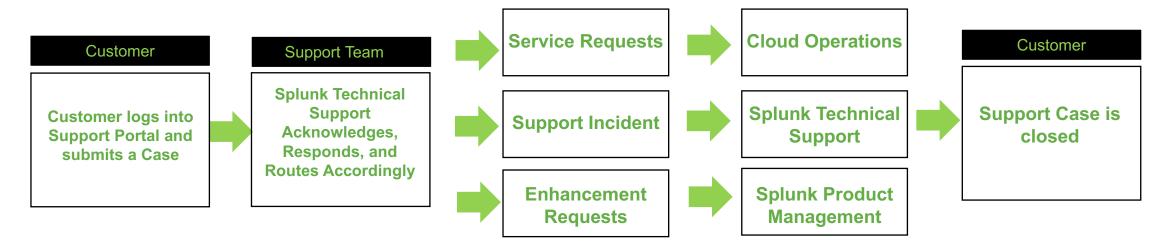
Splunk Cloud Features

Splunk Cloud gets the cool stuff first!

- Metrics Store
- Search Optimization
- Dashboard Editing enhancements and Trellis Layouts
- Self-service App Installation
- And much much moooooore!



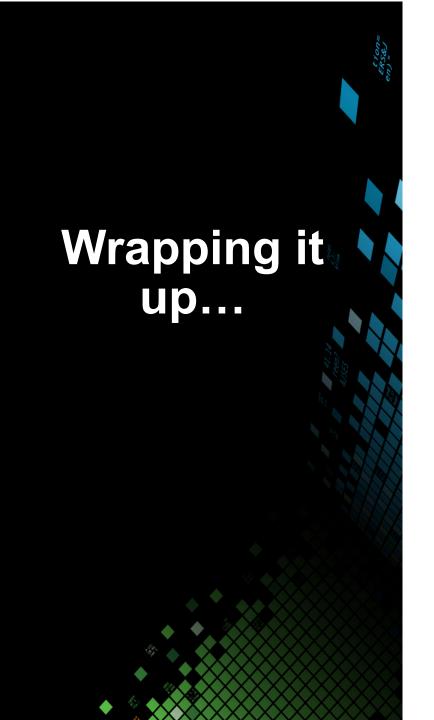
Working with Support



Its like Chemistry..

- ► Totally awesome!
- ► OR... not so much





- 1. Splunk Cloud is Splunk!
- 2. Best Practices are the Best!
- 3. Splunk Cloud is Excellent!





Important Links

Informative and Useful Links for Splunk Cloud

- Splunk Cloud Latest FAQ: https://docs.splunk.com/Documentation/SplunkCloud/latest/FAQs/FAQs
- Splunk Cloud Docs: https://docs.splunk.com/Documentation/SplunkCloud/latest/User/WelcometoSplunkCloud
- Splunk Answers: https://answers.splunk.com/topics/splunk-cloud.html
- Splunk Cloud TOS: http://www.splunk.com/en_us/legal/terms/splunk-cloud-terms-of-service.html
- Splunk Cloud Service Schedule: http://www.splunk.com/en_us/legal/splunk-cloud-service-level-schedule.html
- Splunk Cloud Maintenance Policies: http://www.splunk.com/view/SP-CAAAMTU
- https://splunk.box.com/v/cloudappsbestpractices



What Now?

Related breakout sessions and activities...

- Introducing Splunk Validated Architectures (Wednesday | 3:30 PM-4:15 PM)
- Digital Transformation is Here Progress Report and Lessons Learned from Cloud-First Initiatives in the Public Sector (Wednesday | 4:35 PM-5:20 PM)
- Security Ninjutsu Part Four: Attackers Be Gone in 45 Minutes of Epic SPL (Wednesday | 2:15 PM-3:00 PM)
- Customer Success Boot at Source=*pavillion



Thank You

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