.conf18

splunk>

Splunk Developer Cloud Services & Features

Kris Harrison Itay Neeman

| Principal Product Manager | Sr. Director of Engineering

SDCbeta@splunk.com

October 3, 2018 | v1

Our Speakers



Kris Harrison

Principal Product Manager



Itay Neeman

Sr. Director of Engineering

Forward-Looking Statements

During the course of this presentation, we may make forward-looking statements regarding future events or the expected performance of the company. We caution you that such statements reflect our current expectations and estimates based on factors currently known to us and that actual events or results could differ materially. For important factors that may cause actual results to differ from those contained in our forward-looking statements, please review our filings with the SEC.

The forward-looking statements made in this presentation are being made as of the time and date of its live presentation. If reviewed after its live presentation, this presentation may not contain current or accurate information. We do not assume any obligation to update any forward-looking statements we may make. 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. Splunk undertakes no obligation either to develop the features or functionality described or to include any such feature or functionality in a future release.

Splunk, Splunk>, Listen to Your Data, The Engine for Machine Data, Splunk Cloud, Splunk Light and SPL are trademarks and registered trademarks of Splunk Inc. in the United States and other countries. All other brand names, product names, or trademarks belong to their respective owners. © 2018 Splunk Inc. All rights reserved.



Goals







Services & Features



Demos!



What and Why?



Splunk Developer Cloud

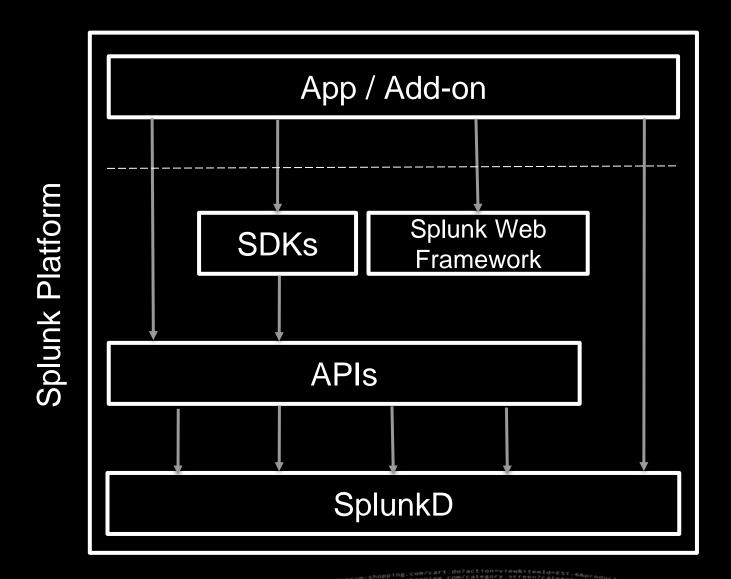
- API-Driven
- Scalable
- Rapid iteration
- Easy

Developer Choice!!!

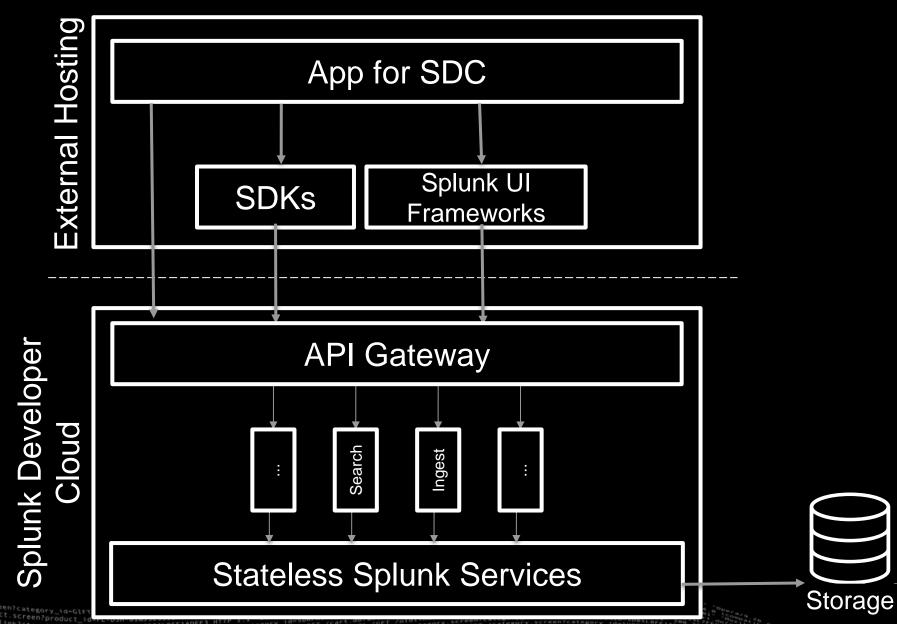




App for Enterprise and Cloud



App with Splunk Developer Cloud





Splunk Developer Cloud

What's in there?

- Cloud-native development platform for machine-generated data
 - APIs
 - SDKs
 - Tools
 - UI Components & Frameworks
 - Developer Portal









Services & Features

With Demos!

- 1. Tenants, Identity, and Access
- 2. Data Ingest, Search, and Catalog
- 3. Apps!



Tenants

- Most basic container of resources
- API calls specify a single tenant

No cross-tenant access

Principals

- Actors making API calls ...targeting a specific tenant
- Users vs. Services
- Can be a <u>member</u> of many tenants; not a resource *contained* by a specific tenant

Principals cannot access tenants they are not a member of

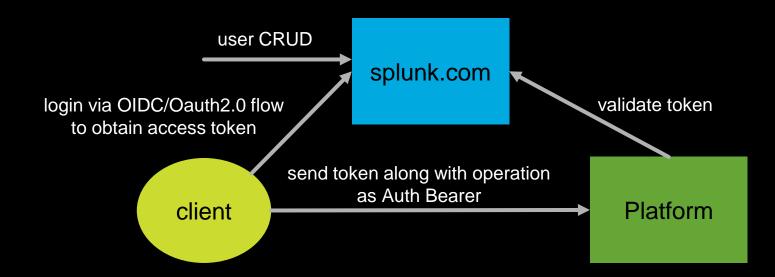
Identity Access Control

- Identity and Access Control (IAC) service manages
 - Tenants
 - Principals
 - Groups
 - Roles
 - Permissions

Enables Authentication and Authorization

Authenticating

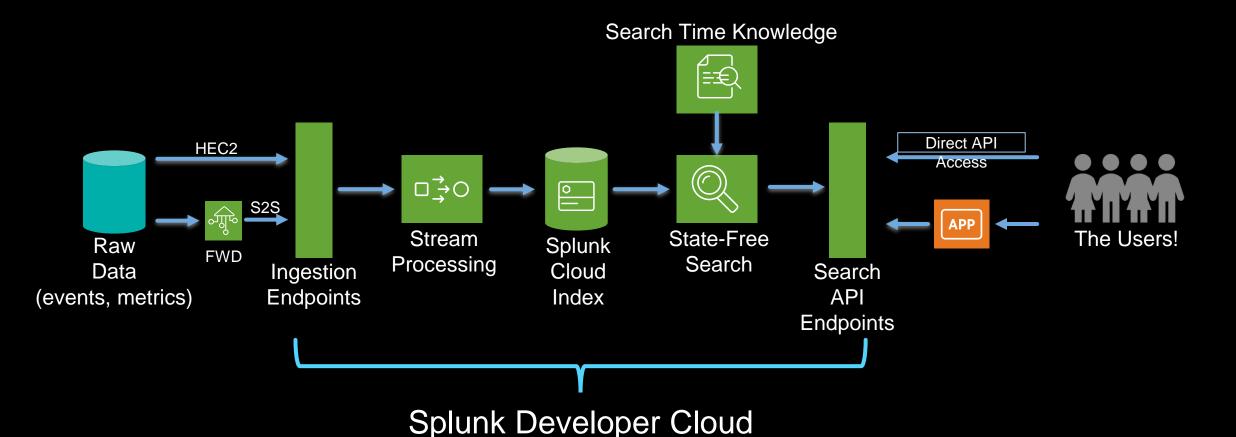
- Registration of accounts happens on splunk.com
- SDC leverages splunk.com as an Identity Provider using the OIDC protocol
- SDC never "sees" a user password; instead all services accept a token that is validated against the splunk.com OpenID Connect Provider





Data Ingest, Search, and Catalog

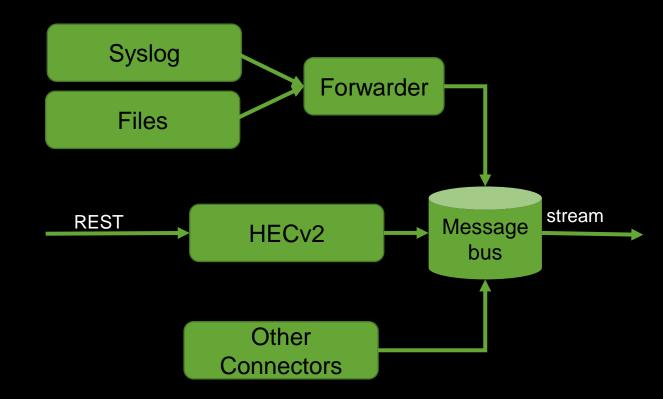
End-to-end flow



Data Ingest

Ingestion & Stream Processing

- Forwarders w/ S2S
- ► HEC v2 API
- Connectors
- First-class ingest-time stream processing engine
 - Fully parallelizable engine
 - Core: Filter, project, transform, group, aggregate, join, sort, limit, window
 - REST API-driven centralized configuration



Indexing and Search

- The stream processing engine feeds data into a Splunk indexer that produces buckets and uploads them to S3
 - Using the S2 (Smart Store) technology
- A new Search Service enables insights with better scale and simplicity
 - SPLv2: a variation of SPL designed to be more consistent and extensible
 - Currently only a subset of SPL commands

Catalog "Source of truth"

- Central repository for metadata: indexes, search time extractions, lookups, etc.
- Models metadata information around datasets
- Datasets act as an interface, defining a schema; core abstraction
 - Indexes, KV Store collections, alerts, etc. are implementations of the interface
- Rules are search-time operations (field extractions, knowledge objects, etc.)
 - Field extractions, aliases, etc. in props/transforms.conf
- Modules act as a namespace and execution context; contain datasets and rules
 - Config stanzas, user/app context, etc

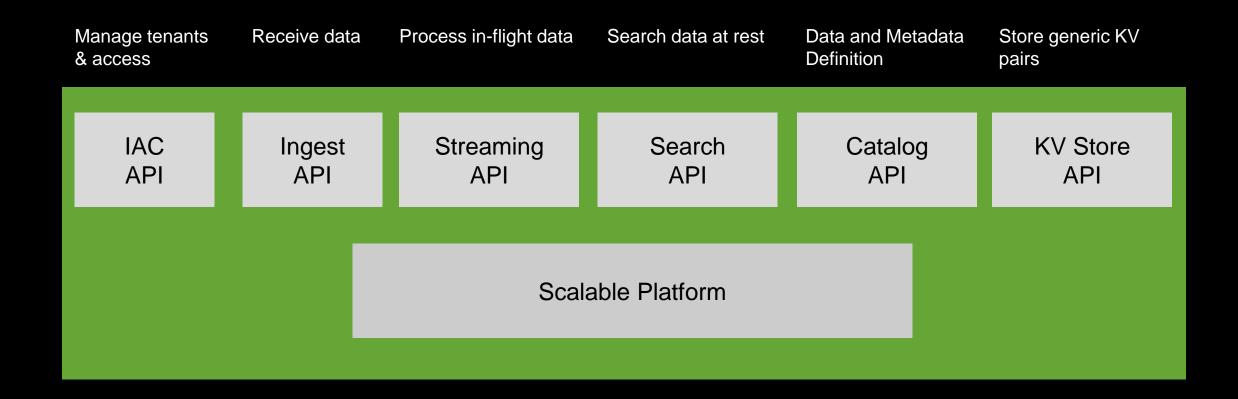
Just scratching the surface

DEV2043 Thursday at 1:30pm



Splunk Developer Cloud APIs

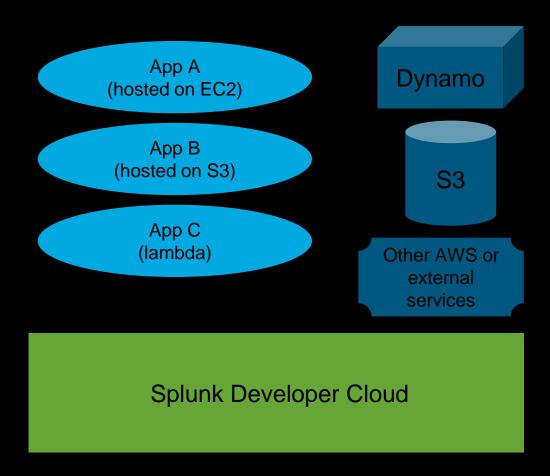
This is what we've covered so far



Apps - Enterprise vs. SDC

A new paradigm

- With Splunk Enterprise, apps are essentially hosted in the platform
 - Ship tarball, provide executables
- With SDC, apps can run anywhere and be anything
- Developers can interact with any external services they like in any way it's useful for their app
- Developers are in control of how their app works and its characteristics not limited to specific extension points





App Services

Do more

- Enable developers to build richer app experiences that have greater reach
 - App Registry
 - Manage OIDC clients/apps with SDC
 - Machine Learning
 - Make predictions and generate insights via the power of ML
 - Action Service
 - Send outgoing webhooks
 - Programmatically
 - via SPLv2
 - More to come



App Enablement

Build faster and easier

- SDKs
- Tooling
- UI Components & Frameworks
- **Developer Portal**

Key Takeaways

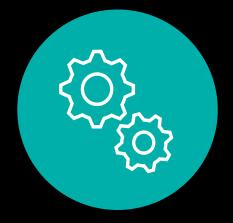
How's that for an overview?

- 1. Overview of Splunk Developer Cloud
- 2. SDC Services...in action
- 3. Application Enablement



Visit the DevZone!!!

More details about Splunk Developer Cloud in the source=*Pavillion



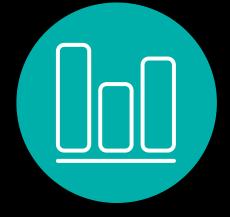
Anatomy of an App built with SDC



Developer Tooling



Splunk UI
Framework &
Search
Components



Dashboards & Visualizations



Search Technology

Six Great Sessions on Splunk Developer Cloud

If you're here in a session, just stay here!

► 11:30am Building Apps for Splunk Developer Cloud DEV1902



12:45pm Splunk Developer Cloud Services and Features DEV1552



- 2:00pm Developer Tools for Splunk Developer Cloud DEV1841
- ▶ 3:15pm Partners Build Apps on Splunk Developer Cloud DEV1846
- 4:30pm Dashboards and Analysis UI Components for Developers DEV1703
- Thu 1:30pm Intro to SPLv2, the Module System and the Catalog DEV2043

Sign up at <u>splunk.com/sdc</u>

Join the SDC Beta Program!

- Help test out the Splunk Developer Cloud!
- We're looking for developers with:
 - Experience in building cloud-hosted applications
 - Experience with building Splunk apps
 - Interest in building new solutions on our beta SDC
- Be among the first to try SDC! Apply to join the beta!
 - splunk.com/sdc
 - splunk.com/projects

Thank You

opping.
//18 'nttp://o
nTF 1.1' 280
(is Gestal Chr

Don't forget to rate this session in the .conf18 mobile app

.CONf18
splunk>



Kris Harrison | Principal Product Manager Itay Neeman | Sr. Director of Engineering

