



Developer Tooling and Guidance for Splunk Developer Cloud

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Forward-Looking Statements

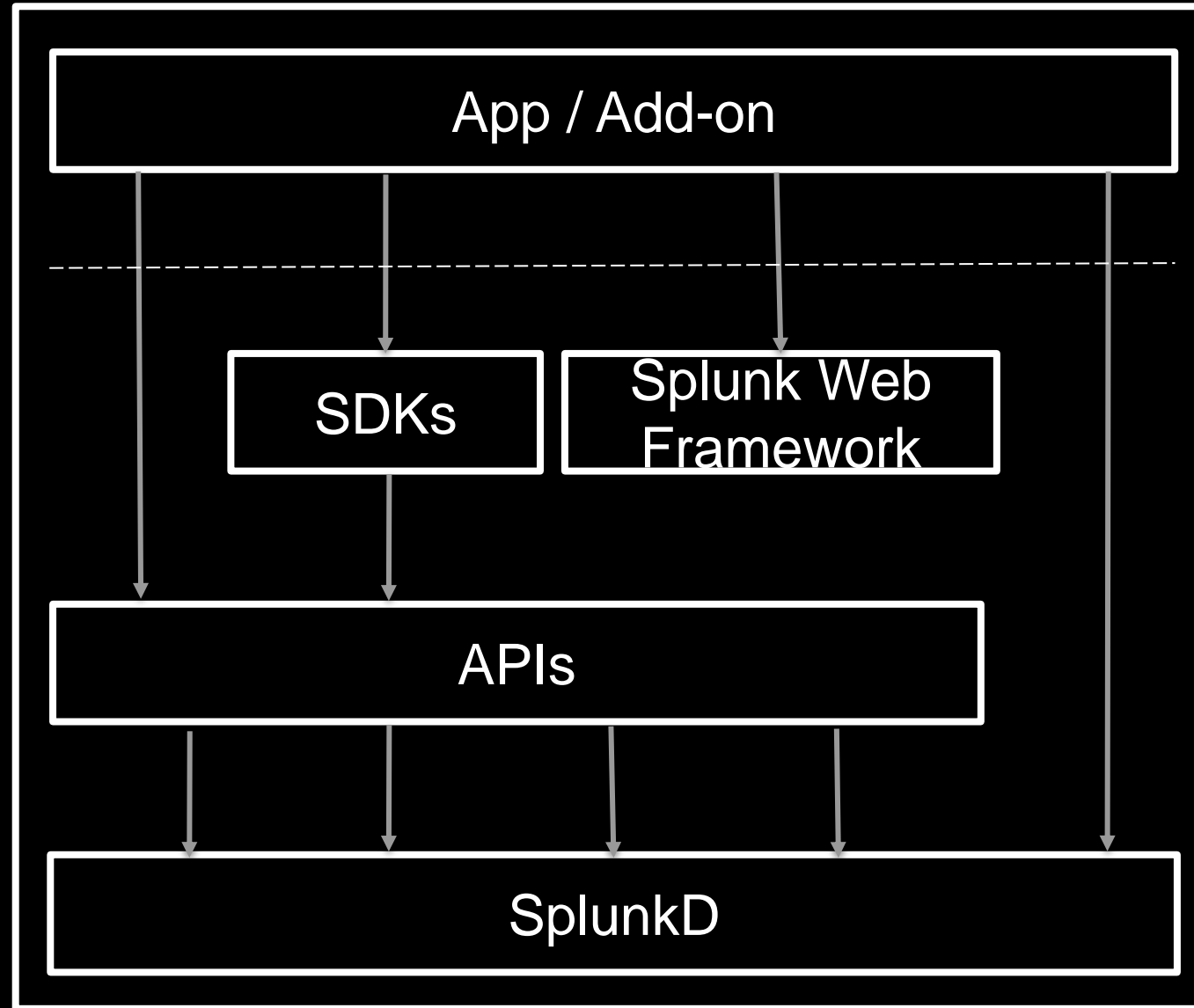
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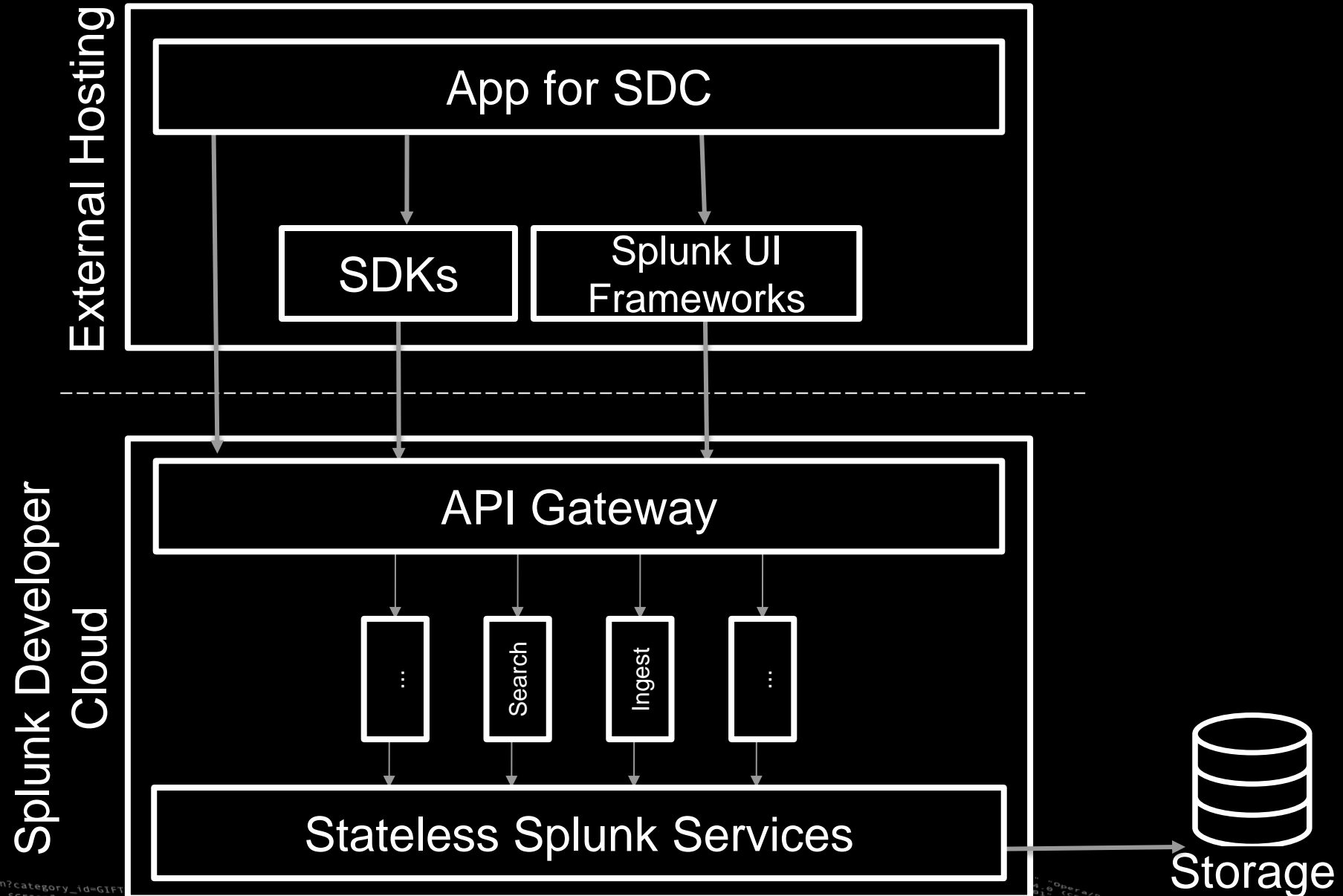
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App for Enterprise and Cloud

Splunk Platform



App for Splunk Developer Cloud



New for Splunk Developer Cloud

- ▶ **SDKs:** Go and JavaScript
- ▶ **Frameworks:** Dashboards, SplunkUI, Search Components
- ▶ **Tools:** Splunk SimData, SDC CLI, an application scaffolding tool, Splunk Data Stream Processor, Splunk Data Discovery
- ▶ **Examples:** multiple small code examples, one medium end-to-end app, one full app (Splunk Sample App for Cisco® ASA)
- ▶ **Guidance:** Splunk Developer Cloud portal with documentation, tutorials, reference material
- ▶ **Apps:**
 - Splunk Insights for Web and Mobile Apps (BETA)
 - Visit the Innovation Labs for more!

Example App

Tools working together

Let's make an app!


- **Authenticate** with the platform with the `/identity` service
- **Manage** data in a dataset with the `/catalog` service
- **Ingest** data with the `/ingest` service
- **Search** data with the `/search` service

Authentication


How the platform verifies who you are


- ▶ Logging into the platform in-browser
 - Visit <https://login.splunkbeta.com/>

splunk > cloud platform



You are accessing a Splunk system. Usage may be monitored, recorded, and subject to audit. Unauthorized use of this system is prohibited and subject to criminal and civil penalties. By signing in, you are agreeing to these terms.

Username 

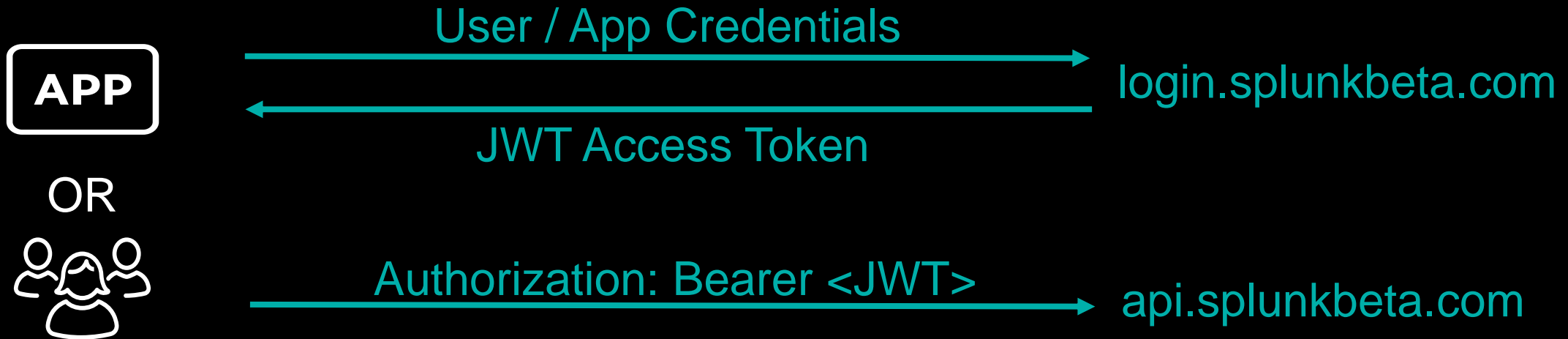
Password 

☐ Remember me

Sign In

Need help signing in?

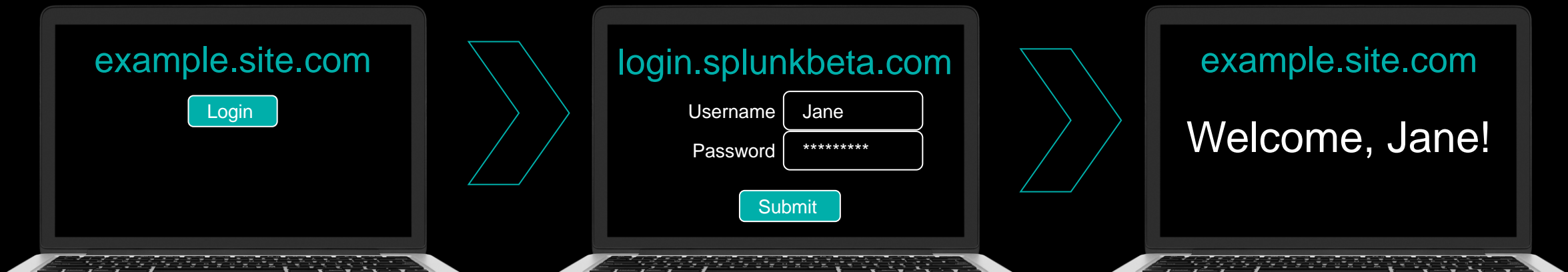
- ▶ Making requests to <https://api.splunkbeta.com> programmatically
 - HTTPS traffic to the platform uses Authorization header to identify the User or App



Authentication

How the platform verifies who you are

- ▶ Register an App with the App Registry service
 - Allow users to login with <https://login.splunkbeta.com/> and redirect to your site



- Allow backend clients to authenticate as the App itself using a Client ID / Client Secret



Validate your token against the platform

```
Response:
{"name": "me@example.com"}
```

```
{"message": "Error validating request", "code": 401}
```

Identity Service

Validate your token against the platform

Js SDK

```
const client = SplunkCloud({ tokenSource: TOKEN, tenant: TENANT });
client.identity.validate()
  .then(info => {...})
  .catch(err => {...});
```

```
client, err := service.NewClient(&service.Config{
    Token: token,
    Tenant: tenant,
})
info, err = client.IdentityService.Validate()
```

Go SDK

Add a member to a tenant

```
> curl -X POST \
  https://api.splunkbeta.com/$TENANT/identity/v1/members \
  -H "Authorization: Bearer $BEARER_TOKEN" \
  -H 'Content-Type: application/json' \
  -d '{"name": "you@example.com"}'
```

Identity Service

Add a member to a tenant

Js SDK

```
const client = SplunkCloud({ tokenSource: TOKEN, tenant: TENANT });
client.identity.addMember({ "name": "you@example.com" })
  .then(member => {...})
  .catch(err => {...});
```

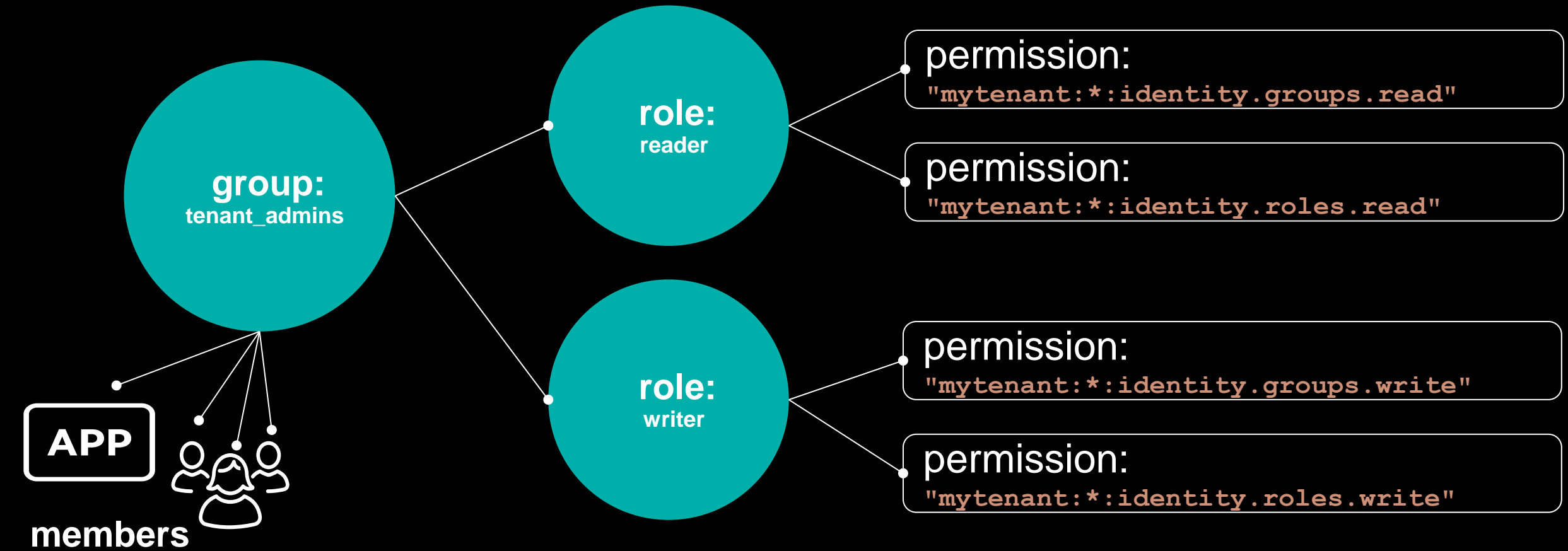
```
client, err := service.NewClient(&service.Config{
    Token: token,
    Tenant: tenant,
})
member, err = client.IdentityService.AddMember("you@example.com")
```

Go SDK



Authorization

How the platform verifies what you can do



Manage Data with Catalog

Create a dataset

```
> curl -X POST \
  https://api.splunkbeta.com/$TENANT/catalog/v1beta1/datasets \
  -H "Authorization: Bearer $BEARER_TOKEN" \
  -H 'Content-Type: application/json' \
  -d '{
    "name": "devops",
    "owner": "me@example.com",
    "kind": "index",
    "disabled": false
  }'
```

Manage Data with Catalog

Create a dataset

Js SDK

```
client.catalog.createDataset({
  name: 'devops',
  kind: 'index',
  disabled: false,
}).then(dataset => {...})
.catch(err => {...});
```

```
dataset, err := client.CatalogService.CreateDataset(&model.DatasetCreationPayload{
  Name: "devops",
  Kind: "index",
})
```

Go SDK

Data Ingestion

Ingest events

```
> curl -X POST \
https://api.splunkbeta.com/$TENANT/ingest/v1beta1/events \
-H "Authorization: Bearer $BEARER_TOKEN" \
-d '[{
  "body": "My test event",
  "host": "example.site.com",
  "source": "/var/log",
  "sourcetype": "access_combined",
  "timestamp": 1536364275000,
  "attributes": {"index": "devops"}
},
{
  "body": "My other test event",
  "host": "example.site.com",
  "source": "/var/log",
  "sourcetype": "access_combined",
  "timestamp": 1536364275001,
  "attributes": {"index": "devops"}
}]'
```

Data Ingestion

Ingest events

Js SDK

```
const client = SplunkCloud({ tokenSource: TOKEN, tenant: TENANT });
const event1 = {"body": "My test event",
  "host": "example.site.com",
  "source": "/var/log",
  "sourcetype": "access_combined",
  "timestamp": 1536364275000,
  "attributes": {"index": "devops"}
};
const event2 = {"body": "My test event",
  "host": "example.site.com",
  "source": "/var/log",
  "sourcetype": "access_combined",
  "timestamp": 1536364275000,
  "attributes": {"index": "devops"}
};
client.ingest.postEvents([event1, event2])
  .then(response => {...})
  .catch(err => {...});
```

Data Ingestion

Ingest events

```

attributes := make(map[string]interface{})
attributes["index"] = "devops"
timeValue := int64(time.Now().Unix() * 1000) // Unix millis
event1 := model.Event{
    Body:      "My test event",
    Host:      "example.site.com",
    Source:    "/var/log",
    Sourcetype: "access_combined",
    Timestamp: timeValue,
    Attributes: attributes}
event2 := model.Event{
    Body:      "My other test event",
    Host:      "example.site.com",
    Source:    "/var/log",
    Sourcetype: "access_combined",
    Timestamp: timeValue,
    Attributes: attributes}
err = client.IngestService.PostEvents(&[]model.Event{event1, event2})

```

Go SDK

Data Ingestion

Sending batches of events

Js SDK

```
// Send a batch of events every 5 bytes, 10th event, or 3000 ms
const eb = new EventBatcher(splunk.ingest, 5, 10, 3000);
eb.add({...}).then(response => {...}).catch(err => {...});
eb.add({...}).then(response => {...}).catch(err => {...});
...
eb.stop();
```

```
// Send a batch of events every 5th event or 1000ms
sender, err := client.NewBatchEventsSender(5, 1000)
sender.Run()
err = sender.AddEvent(model.Event{...})
err = sender.AddEvent(model.Event{...})
...
sender.Stop()
```

Go SDK

Data Ingestion

- ▶ Splunk Forwarders can also send data to SDC
- ▶ Three Data Availability stations in the source=*Pavillion
- ▶ “Gain Control of Your Data Flow Using Stream Processing” (FN1919) - Wednesday 4:30PM

Searching Data

Data Fabric Search and SPLv2

► Similarities to Splunk Enterprise

- Searches are run as asynchronous jobs with a search id
- Results are available as paginated responses (offset, count)

► Differences from Splunk Enterprise

- One-shot (synchronous) searches are not supported
- New Search Processing Language = SPLv2

► SPLv2

- Move to formal grammar lexer/parser for consistency and ease-of-use
- Intro to SPLv2, the Module System, and the Catalog (DEV2043) - Thursday 1:30PM

```
130.60.4 - - [07/Jun 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SL4FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10.4780; rv:1.9.2.10"
128.241.220.82 - - [07/Jun 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=K9-CW-01" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_2; rv:42.0) Gecko/20100101 Firefox/42.0"
137.27.160.0 - - [07/Jun 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1316 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD1B5LBF2ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10.4780; rv:1.9.2.10"
130.60.4 - - [07/Jun 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SL4FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10.4780; rv:1.9.2.10"
128.241.220.82 - - [07/Jun 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=K9-CW-01" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_2; rv:42.0) Gecko/20100101 Firefox/42.0"
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130.60.4 - - [07/Jun 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SL4FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10.4780; rv:1.9.2.10"
128.241.220.82 - - [07/Jun 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=K9-CW-01" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_2; rv:42.0) Gecko/20100101 Firefox/42.0"
137.27.160.0 - - [07/Jun 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1316 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD1B5LBF2ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10.4780; rv:1.9.2.10"
```

Searching Data

Post a job and get results

```
> export SID=$(curl -X POST \
https://api.splunkbeta.com/$TENANT/search/v1beta1/jobs \
-H "Authorization: Bearer $BEARER_TOKEN" \
-d '{"query": "| from index:devops | head 5"}' \
| jq -r .sid)
```

```
> curl -X GET \
https://api.splunkbeta.com/$TENANT/search/v1beta1/jobs/$SID/results \
-H "Authorization: Bearer $BEARER_TOKEN"
```

Searching Data

Post a job and get results

Js SDK

```
const client = SplunkCloud({ tokenSource: TOKEN, tenant: TENANT });

client.search.createJob("| from index:devops | head 5")

  .then(sid => splunk.search.waitForJob(sid)

  .then(job => splunk.search.getResults(sid, { count: 5, offset: 0 }))

  .then(results => {...});

  .catch(err => {...});
```

Searching Data

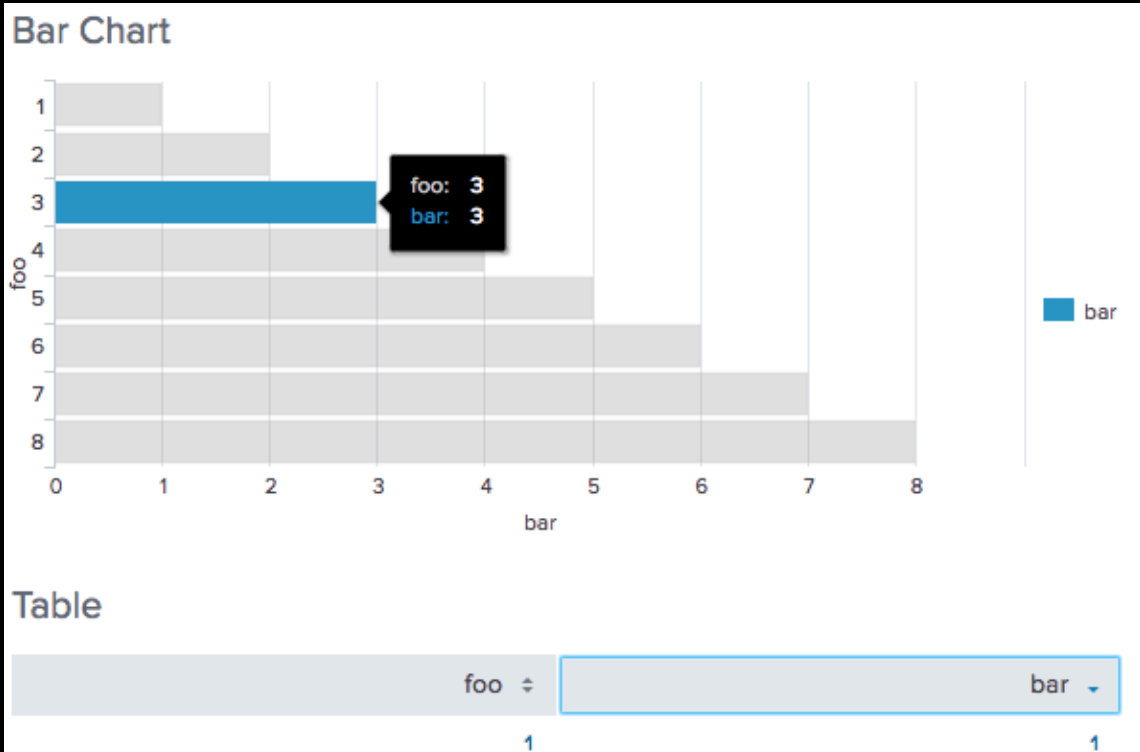
Post a job and get results

```
search := &model.CreateJobRequest{Query: "| from index:devops | head 5"}  
  
sid, err := client.SearchService.PostJob(search)  
  
err = client.SearchService.WaitForJob(sid, 1000*time.Millisecond)  
  
results, err := client.SearchService.GetResults(sid, 5, 0)
```

Go SDK

Displaying Results

Splunk UI and NEW Splunk Dashboards



```
{
  "columns": [
    ["1", "2", "3", "4", "5", "6", "7", "8"],
    ["1", "2", "3", "4", "5", "6", "7", "8"]
  ],
  "fields": [{"name": "foo"}, {"name": "bar"}],
  "visualizations": {
    "table": {
      "title": "Table",
      "type": "viz.table",
      "dataSources": {"primary": "search1"}
    },
    "table": {
      "title": "Bar Chart",
      "type": "viz.bar",
      "dataSources": {"primary": "search1"}
    },
    "layout": {
      "type": "grid",
      "options": {
        "columns": 12
      }
    }
  }
}
```

- ▶ Dashboards and Analysis UI Components for Developers (DEV1703) - Wednesday 4:30PM

splunk-cloud-create-app splunk-cloud-examples Demo

The barebones app for Splunk Developer Cloud
and example apps to get you started

scloud CLI Demo

Perform management tasks,
ingest and search data,
and more

scloud CLI



Splunk SimData

- ▶ Fake data for real apps
 - [Preview talk from Conf 2017](#)
 - [Available now for use with Splunk Enterprise and Splunk Cloud!](#)
 - Works with SDC, too
- ▶ Fake Data for real apps
 - Demos
 - Development
 - Testing

Splunk SimData

Define actors
and their
interactions

```
entity User {
  init {
    id = Random(0, 1000);
  }
  every(Random (500, 2000) ms) {
    var sessionID = Guid();
    send WebRequest {
      userRef: self;
      sessionID: sessionID;
      userID: id;
      rand: Random(0, 100); // Determines which HTTP code we return
    }
    emit LogUserRequest {
      sessionID: sessionID;
      userID: id;
    }
  }
  on WebResponse {
    emit LogWebResponse {
      code: message.code;
      httpStatus: message.httpStatus;
      userID: id;
      sessionID: message.sessionID;
      pageName: message.pageName;
      queryTime: message.queryTime;
      renderTime: message.renderTime;
      webserverName: message.webserverName;
    }
  }
}
```

```
do?action=view&itemId=EST-6&product_id=F1-SW-01" "Opera/9.20
om/category/screen?category_id=Gifts" "Mozilla/4.0
action=purchase&itemId=EST-26&product_id=M09-CU-01" "Comp
1.1" 200 2423 "http://buttercup-shopping.com/cart.do?acti
mid=EST-18&product_id=AV-CB-01&jsessionid=SD55LFFPGADP
ST-&jsessionid=SD105LBF2ADFF9 HTTP/1.1" 200 3865 "PGADP
?category_id=FLOWERS&jsessionid=SD55LFFPGADP HTTP/1.1" 200 3865 "PGADP
T /category/screen?category_id=SURPRISE&jsessionid=SD55LFFPGADP
T do?action=remove&itemId=EST-18" "Opera/9.20
```


Splunk SimData

```
entity User {
  init {
    id = Random(0, 1000);
  }
  every(Random(500, 2000) ms) {
    var sessionID = Guid();
    send WebRequest {
      userRef: self;
      sessionID: sessionID;
      userID: id;
      rand: Random(0, 100);
    }
    emit LogUserRequest {
      sessionID: sessionID;
      userID: id;
    }
  }
  on WebResponse {
    emit LogWebResponse {
      code: message.code;
      httpStatus: message.httpStatus;
      userID: id;
      sessionID: message.sessionID;
      pageName: message.pageName;
      queryTime: message.queryTime;
      renderTime: message.renderTime;
      webserverName: message.webserverName;
    }
  }
}
```

```
{
  "update_interval": 1,
  "time_unit": "Seconds",
  "entities": [
    {
      "entity_name": "WebClient",
      "count": 10
    },
    {
      "entity_name": "WebServer",
      "count": 1
    }
  ],
  "entity_wirings": [
    {
      "from": "WebClient",
      "to": "WebServer",
      "message_type": "WebRequest",
      "wiring_type": "any",
      "filter": null
    },
    {
      "from": "WebServer",
      "to": "WebClient",
      "message_type": "WebResponse",
      "wiring_type": "any",
      "filter": null
    }
  ],
  "default_transport": "TextTransport"
}
```

Define
scenarios

```
do?action=view&itemId=EST-6&product_id=F1-SW-01" "Opera/9.20
om/category/screen?category_id=01F75" "Mozilla/4.0
action=purchase&itemId=EST-26&product_id=M09-CU-01" "Compa
1.1" 200 2423 "http://buttercup-shoppine.com/cart.do?acti
mid=EST-18&product_id=AV-CB-01&jsessionid=SD55LFFPGADP11W
ST-&jsessionid=SD105LBF2ADF9 HTTP/1.1" 200 288 "http://
/category/screen?category_id=01F75" "Mozilla/4.0
T /category/screen?category_id=01F75" "Mozilla/4.0" 200 288 "http://
T /category/screen?category_id=01F75" "Mozilla/4.0" 200 288 "http://
```

Splunk SimData

```
entity User {
  init {
    id = Random(0, 1000);
  }
  every(Random(500, 2000) ms) {
    var sessionID = Guid();
    send WebRequest {
      userRef: self;
      sessionID: sessionID;
      userID: id;
      rand: Random(0, 100);
    }
  }
  emit LogUserRequest {
    sessionID: sessionID;
    userID: id;
  }
}
on WebResponse {
  emit LogWebResponse {
    code: message.code;
    httpStatus: message.httpStatus;
    userID: id;
    sessionID: message.sessionID;
    pageName: message.pageName;
    queryTime: message.queryTime;
    renderTime: message.renderTime;
    webserverName: message.webserverName;
  }
}
```

```
{
  "update": {
    "time": {
      "entity": {
        "from": "WebClient",
        "to": "WebServer",
        "message_type": "WebRequest",
        "wiring_type": "any",
        "filter": null
      },
      "entity_wirings": [
        {
          "from": "WebServer",
          "to": "WebClient",
          "message_type": "WebResponse",
          "wiring_type": "any",
          "filter": null
        }
      ],
      "default_transport": "TextTransport"
    }
  }
}
```

Control your
running
simulation

Controls Raw Data

Database bots

databaseDown 0 1

Change all

Database a Database b

downTick 0

WebServer bots

useSlowQuery 0 1

Change all

maxPendingRequests 0 100

Change all

WebServer a WebServer b

pendingRequests 3

useSlowQuery 0 1

name webserver98.spl...

maxPendingRequests 0 100

pendingRequests 1

useSlowQuery 0 1

name webserver60.spl...

maxPendingRequests 0 100

Splunk SimData

Get plausible results

```
entity User {
  init {
    id = Random(0, 1000);
  }
  every(Random (500, 2000) ms) {
```

```
{
  "update_interval": 1,
  "time_unit": "Seconds"
  "entities": [
    {
      "entity_name": "We
```

Search

1 | from main | head limit=100

i	Time	Event
>	9/26/2018 10:31:32.813 AM	2018-09-26T10:31:32.813 userID=959 sent request sessionID=5dc50376-6dfc-4090-a0f8-56edb8900a1f
>	9/26/2018 10:31:32.813 AM	2018-09-26T10:31:32.813 Query is Done. server=db1.splunk.com connectionID=71da3b0e-97b7-4159-9296-4410a076587b cpu_usage=47.0 disk_usage=30.0 query=\"SELECT P1.PAYMENTNO, P1.AMOUNT, SUM(P2.AMOUNT) FROM PENALTIES AS P1, PENALTIES AS P2 WHERE P1.PAYMENTNO >= P2. PAYMENTNO GROUP BY P1. PAYMENTNO, P1.AMOUNT ORDER BY P1. PAYMENTNO;\" cpu=18 disk=2 executionTime=20 status=running
>	9/26/2018 10:31:32.813 AM	2018-09-26T10:31:32.813 userID=6 sent request sessionID=31b41376-9d69-4aa2-8de6-a504a8f95788
>	9/26/2018 10:31:32.813 AM	2018-09-26T10:31:32.813 userID=403 got response code=200 from webserverName=webserver16.splunk.com httpStatus=\"OK\" sessionID=780d0b10-2fb1-4022062cbfe712 pageName=/about renderTime=10.666135612199158 queryTime=0
>	9/26/2018 10:31:32.813 AM	2018-09-26T10:31:32.813 userID=795 got response code=200 from webserverName=webserver83.splunk.com httpStatus=\"OK\" sessionID=7ba3321b-857c-4d166401f4ac7 pageName=/search renderTime=226.5018140266879 queryTime=30
>	9/26/2018 10:31:32.813 AM	2018-09-26T10:31:32.813 userID=157 got response code=200 from webserverName=webserver83.splunk.com httpStatus=\"OK\" sessionID=cda1e479-6754-4098708865cc63 pageName=/home renderTime=21.46768034436283 queryTime=0

wn 0 1

Change all

Save

New

Last 24 h

Database b

downTick 0

1

100

WebServer b


PendingRequests 1

SlowQuery 0 1

Time webserver60.splu...

MaxPendingRequests 0 100

SDC Developer Portal

 **dev**

DOCUMENTATIONAPI REFERENCETOOLSEXAMPLES

My AccountSupport & Services


Welcome to the Splunk Developer Cloud

Set up your developer account and get free access to the new beta release. Put some data in, run the search and reporting app, and get familiar with this new way to run and interact with Splunk.

[GET STARTED](#)


Build on Splunk's innovations in the cloud.

Access, manage, and store enormous amounts of data to get actionable insights for use cases across IT, security, IoT, business analytics and more.

**API**


Get the latest specs for REST and SDK APIs here.

[Learn More >](#)

**Documentation**

Read about the different Splunk Developer Cloud services, SDKs, and UI Components.

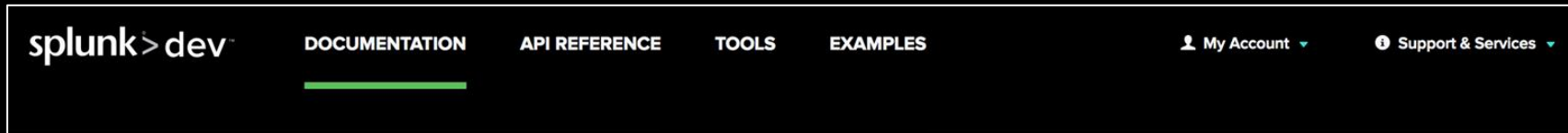
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**Tools**

Access tools to help you develop for Splunk Developer Cloud.

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SDC Developer Portal



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Send events and search them using the APIs

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Add search to the app

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Get started: Add ingest to the app

This step of the tutorial shows how to send events from a JSON file to the tenant index. The [Splunk Cloud SDK for JavaScript](#) is required for making API calls.

1. At the command prompt, enter the following command to install the SDK libraries in your app:

```
yarn add @splunk/cloud-sdk
```

2. Open the `/src/config.json` file and update the code as follows to specify your tenant:

```
{
  "auth": {
    "clientId": "REPLACE WITH YOUR CLIENT ID"
  },
  "tenant": "REPLACE WITH YOUR TENANT NAME"
}
```

The tenant is hardcoded for this tutorial. For an example of a more realistic implementation, see the [Splunk Sample App for Cisco® ASA firewall data](#) example.

3. In the `/src` folder, create a file called `client.js` with logic to create a client object using the SDK.

Paste the following code into the `client.js` file:

```
import { SplunkCloud } from '@splunk/cloud-sdk';
import authClient from './auth';
import { tenant } from './config.json';

export default function getServiceClient() {
  return new SplunkCloud("https://api.splunkbeta.com", authClient.getAccessToken(), tenant);
}
```

4. In the `/src` folder, create a file called `events.json` with a few hardcoded events in JSON format.

Paste the following JSON into the `events.json` file:

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JavaScript SDK

Go SDK

The API reference docs are currently a work in progress. Expect more to come soon.

Ingest

v1

Send event or metrics data to Splunk.

POST

/{tenant}/ingest/v1/events

Creates events.

PATH VARIABLES

Name	Description
tenant	The tenant name
string	

REQUEST BODY (JSON)

```
{ [ + ] }
```

RESPONSES

Code	Description
200	
400	

POST

/{tenant}/ingest/v1/metrics

Creates metrics. Creates metric events.

PATH VARIABLES

Name	Description
------	-------------

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Tools for Splunk Developer Cloud

Data Discovery



An app that lets you search your data in Splunk Cloud so you can investigate issues, debug errors, and understand your data.

Version: 0.0.11. Updated: 8/30/2018



Data Stream Processor



A stream processing tool that ingests data from sources, processes it, and sends your data to your Splunk deployment.

Version: Beta. Updated: 9/6/2018



Splunk Cloud CLI



A tool that lets you manage resources and services in Splunk Cloud from a command line prompt.

Version: Beta. Updated: 9/6/2018



Application Scaffolding



A scaffolding tool that creates a 'Hello World' React app with an assortment of dependencies needed for developing for Splunk Cloud.

Version: Beta. Updated: 9/6/2018



Splunk Cloud SDK for JavaScript



An SDK that contains JavaScript libraries for developing apps for Splunk Cloud.

Splunk Cloud SDK for Go



An SDK that contains Go libraries for developing apps for Splunk Cloud.

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splunk> dev

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Example Apps for Splunk Developer Cloud

Authentication

A simple example that shows how to implement authentication in an app.

[Go to GitHub Repo](#)[View Readme](#)

Ingest

A simple example that shows how to send events.

[Go to GitHub Repo](#)[View Readme](#)

Simple Search

A simple example that shows how to add a search page to an app.

[Go to GitHub Repo](#)[View Readme](#)

Simple Search with Dashboard

A simple example that shows how to add a dashboard to an app.

[Go to GitHub Repo](#)[View Readme](#)

Simple Search with Custom Dashboard

A simple example that shows how to add a custom dashboard to an app.

Splunk Sample App for Cisco® ASA firewall data

A reference solution built on Splunk Cloud that focuses on use cases for Cisco ASA Firewall.

Join the SDC Beta Program!

- ▶ Help test out the Splunk Developer Cloud!
- ▶ We're looking for developers with:
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 - 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

Six Great Sessions on Splunk Developer Cloud

- ▶ [Building Apps for Splunk Developer Cloud \(DEV1902\)](#) - Wednesday 11:30AM
- ▶ [Splunk Developer Cloud Services and Features \(DEV1552\)](#) - Wednesday 12:45PM
- ▶ [Partners Build Apps on Splunk Developer Cloud \(DEV1846\)](#) - Wednesday 3:15PM
- ▶ [Dashboards and Analysis UI Components for Developers \(DEV1703\)](#) - Wednesday 4:30PM
- ▶ [Gain Control of Your Data Flow Using Stream Processing \(FN1919\)](#) - Wednesday 4:30PM
- ▶ [Intro to SPLv2, the Module System, and the Catalog \(DEV2043\)](#) - Thursday 1:30PM

Q&A

Tedd Hellmann | Senior Product Manager

Tim Pavlik | Senior Software Engineer

Thank You

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