

Section 2

Consuming a RESTful API





In this Section, we are going to take a look at...

- Authentication in REST APIs
- Twitter's REST API
- Accessing MongoDB from Node.js



1x



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Video 2.1

A Look at OAuth 1.0a



In this Video, we are going to take a look at...

- What is OAuth
- Parties involved in OAuth
- The authentication flow
- A real-world example

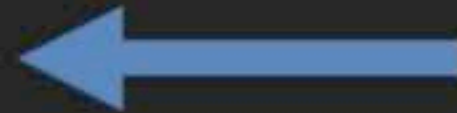
What Is OAuth?

- OAuth is an open standard for interacting with protected data
- It is used for:
 - Sharing data between services
 - Signing in

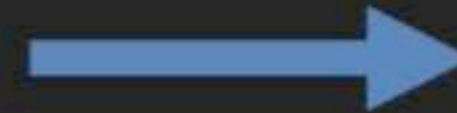
Parties Involved in OAuth



Client



Resource
Owner

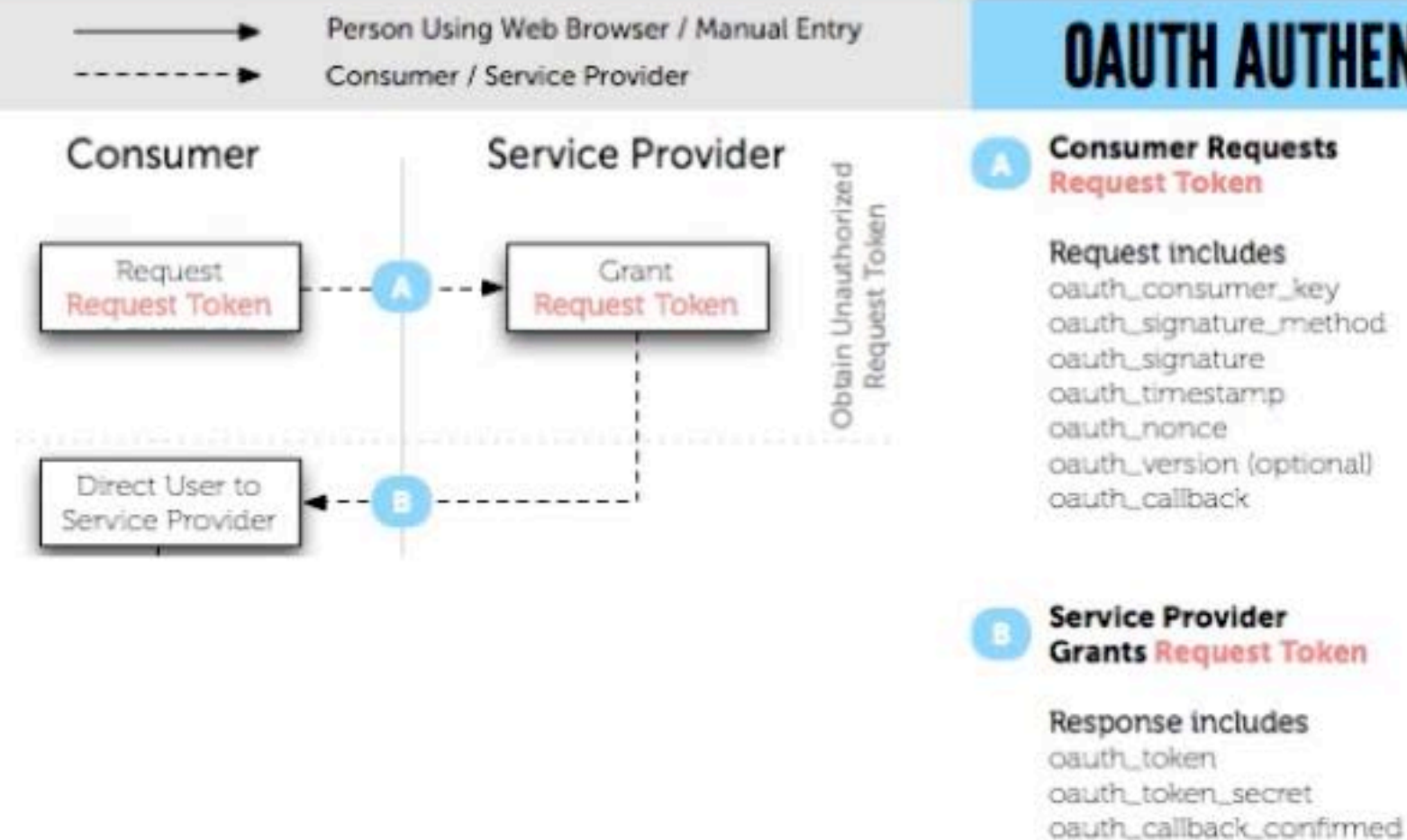


Server

Parties Involved in OAuth



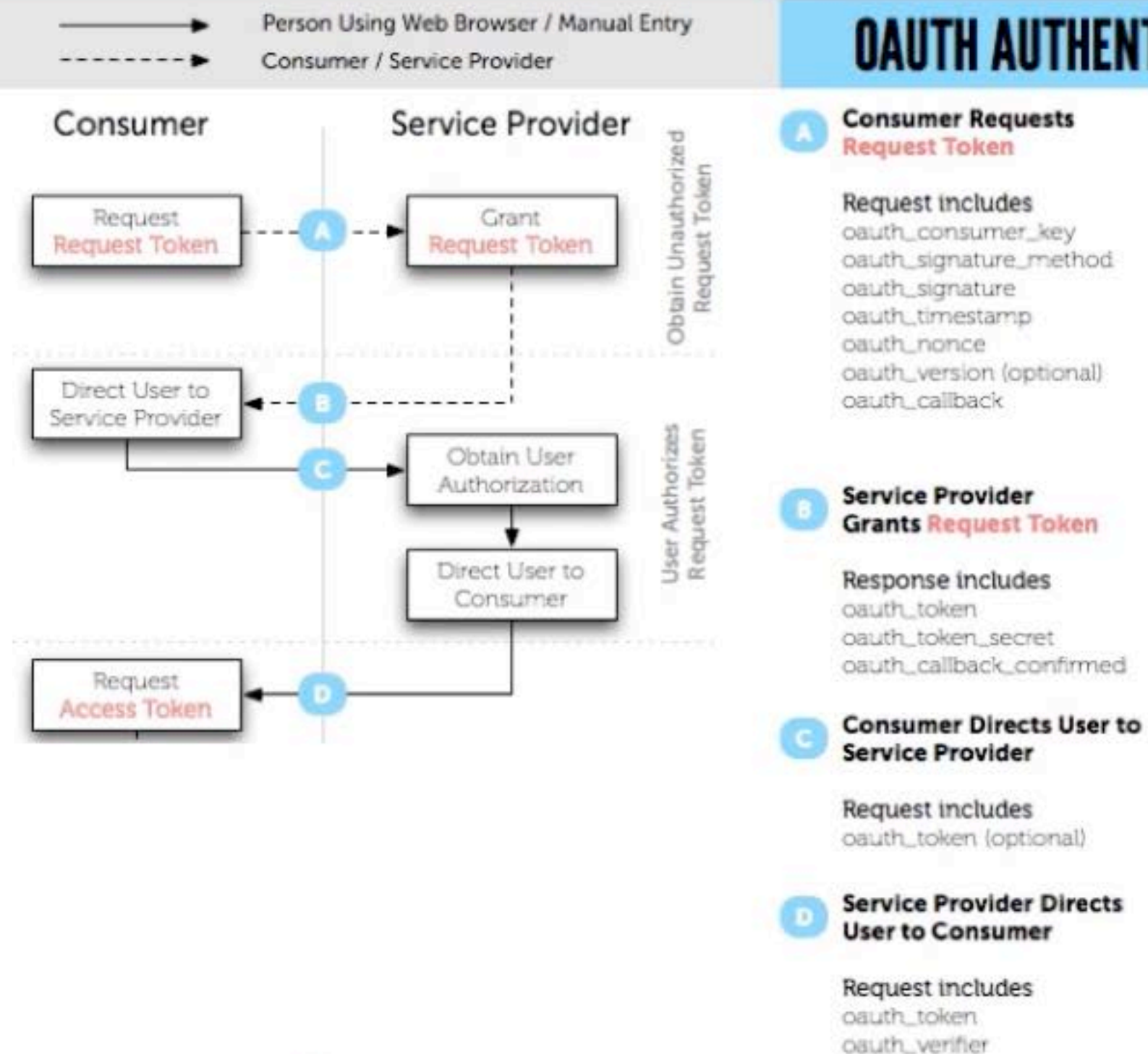
The Authentication Flow



The 3 main steps:

1. Ask for request token

The Authentication Flow



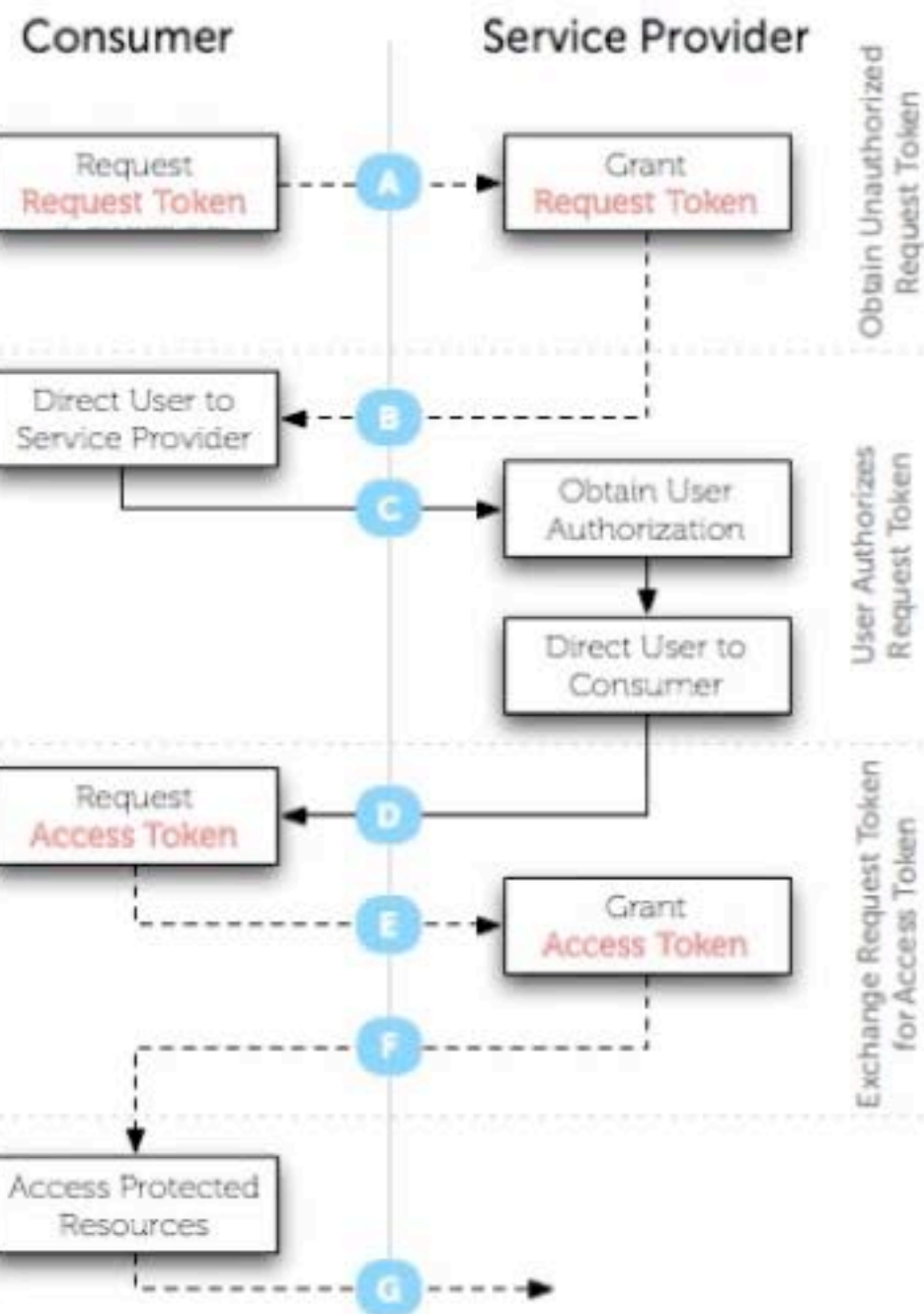
The 3 main steps:

1. Ask for request token
2. Get temporary credentials

The Authentication Flow

OAUTH AUTHENTICATION FLOW v1.0a

—→ Person Using Web Browser / Manual Entry
- - - - - Consumer / Service Provider



A Consumer Requests Request Token

Request includes
oauth_consumer_key
oauth_signature_method
oauth_signature
oauth_timestamp
oauth_nonce
oauth_version (optional)
oauth_callback

B Service Provider Grants Request Token

Response includes
oauth_token
oauth_token_secret
oauth_callback_confirmed

C Consumer Directs User to Service Provider

Request includes
oauth_token (optional)

D Service Provider Directs User to Consumer

Request includes
oauth_token
oauth_verifier

E Consumer Requests Access Token

Request includes
oauth_consumer_key
oauth_token
oauth_signature_method
oauth_signature
oauth_timestamp
oauth_nonce
oauth_version (optional)
oauth_verifier

F Service Provider Grants Access Token

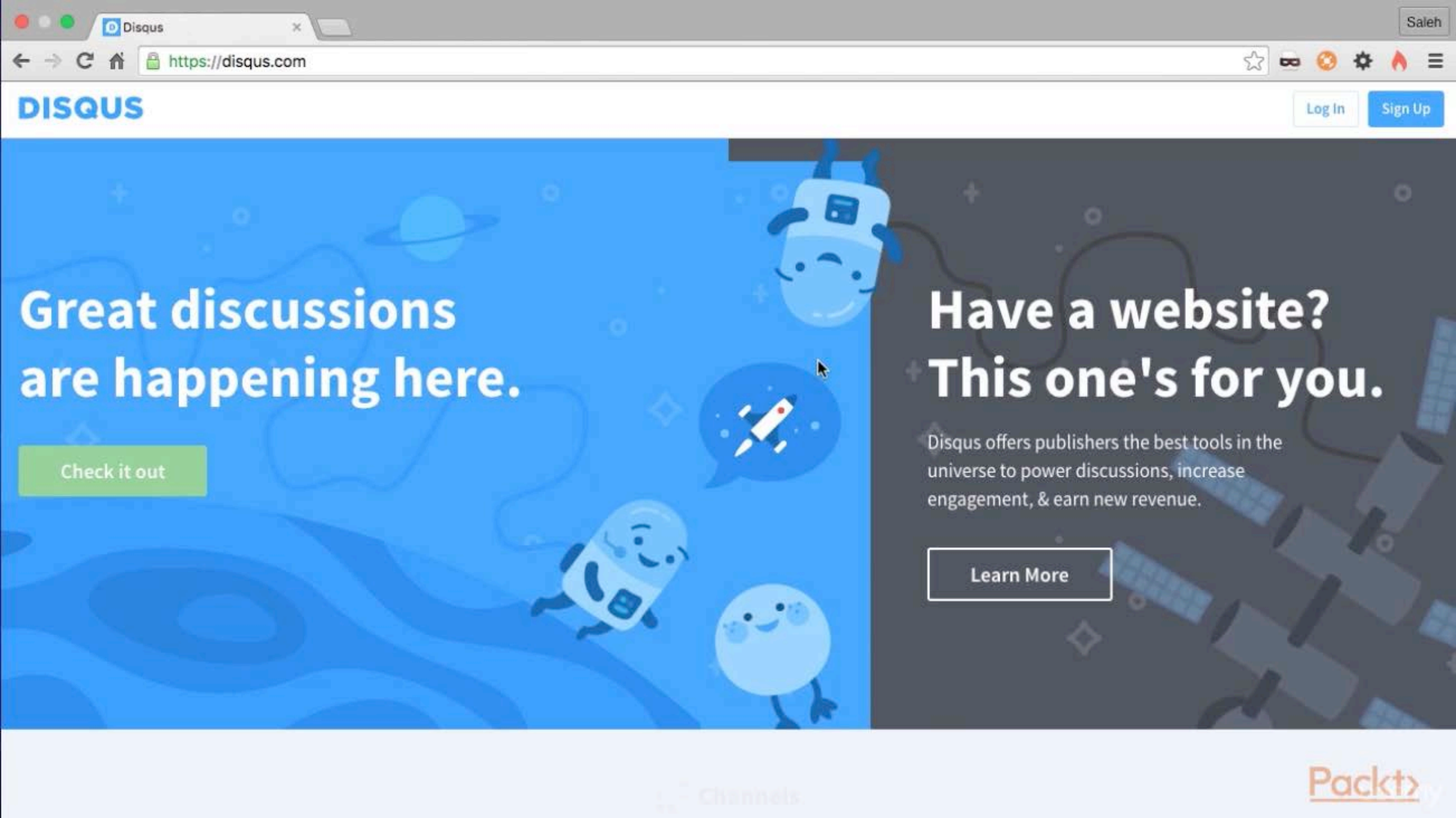
Response includes
oauth_token
oauth_token_secret

G Consumer Accesses Protected Resources

Request includes
oauth_consumer_key
oauth_token
oauth_signature_method
oauth_signature
oauth_timestamp
oauth_nonce
oauth_version (optional)

The 3 main steps:

1. Ask for request token
2. Get temporary credentials
3. Exchange for access token



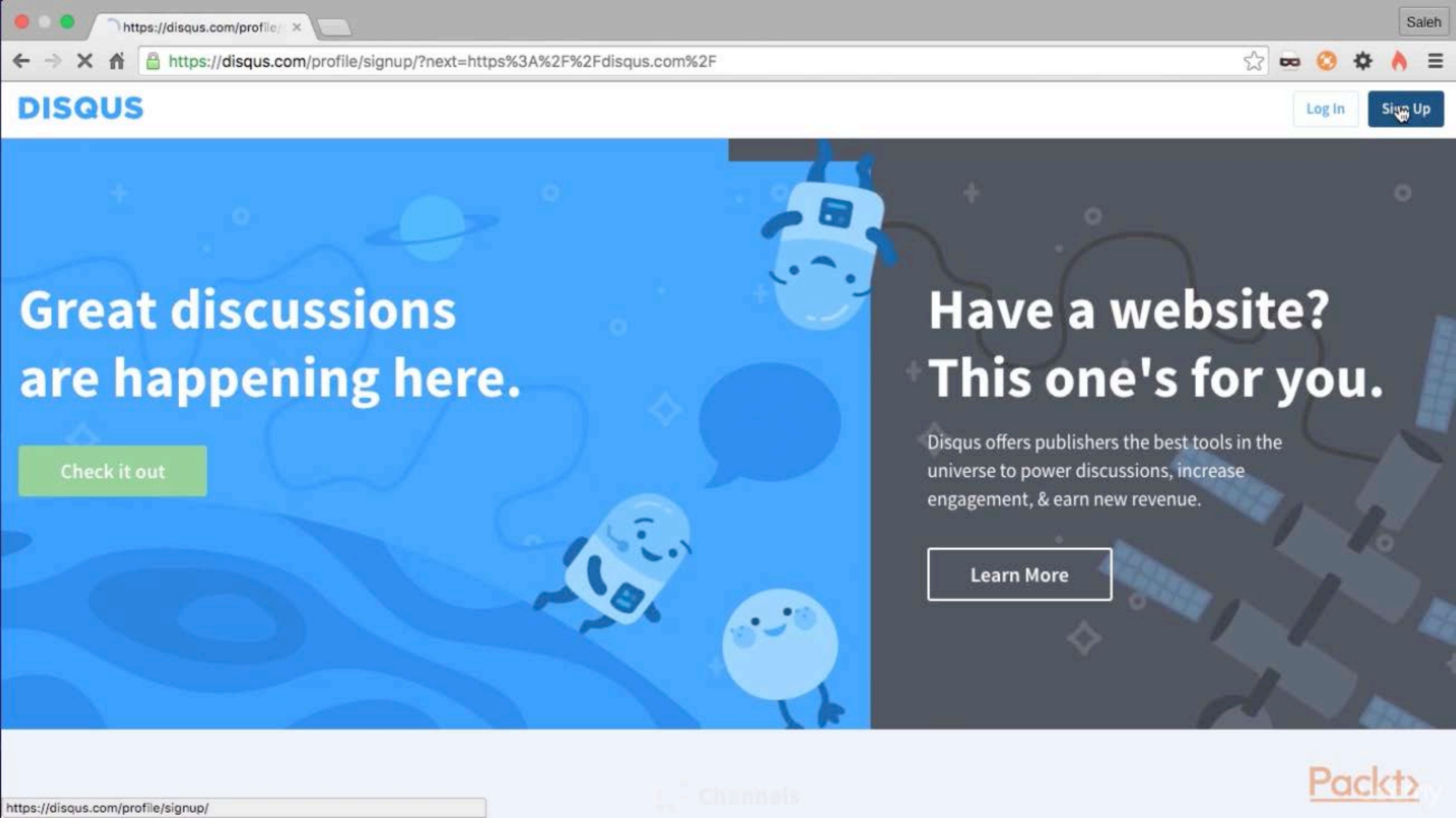
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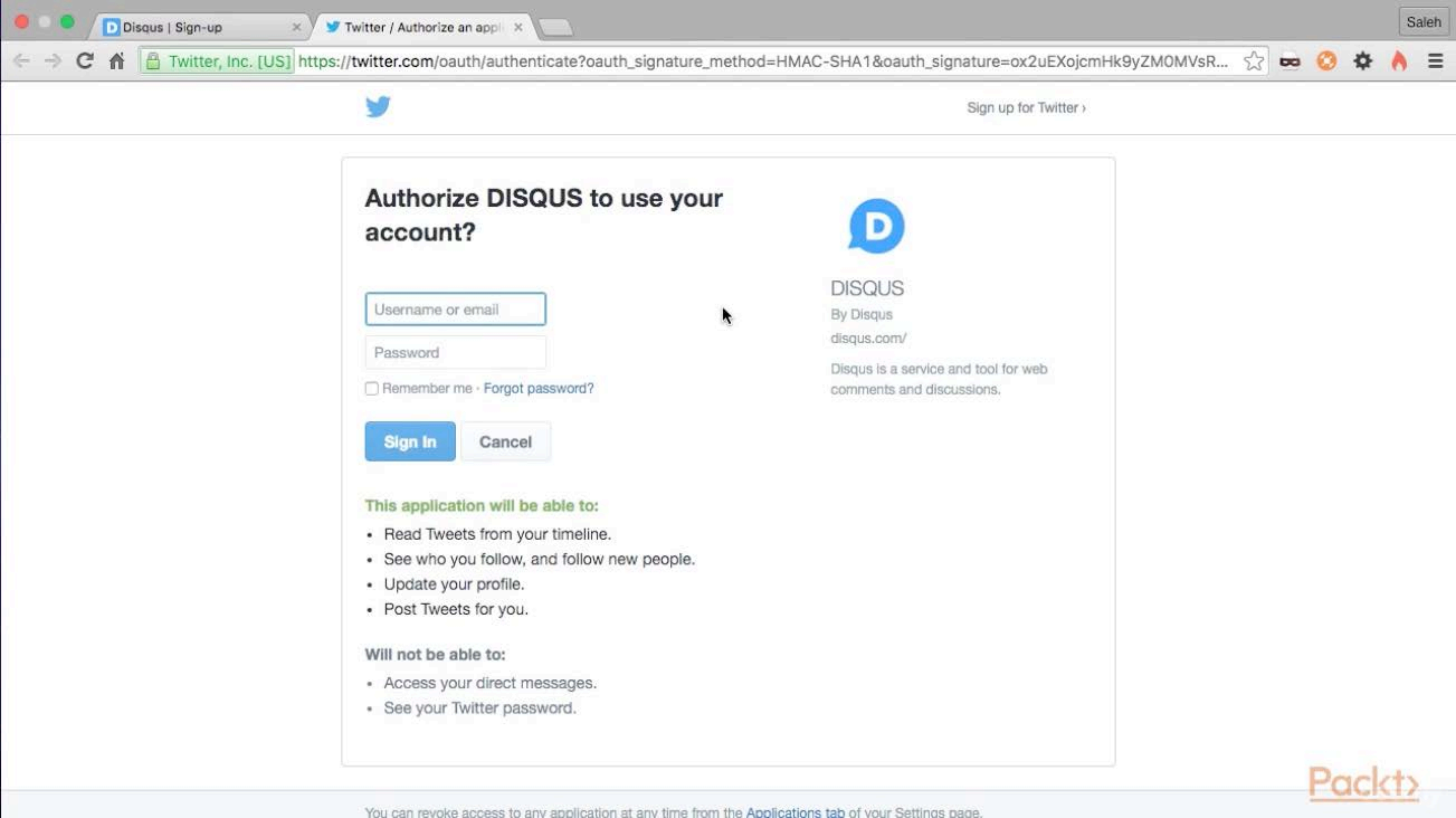
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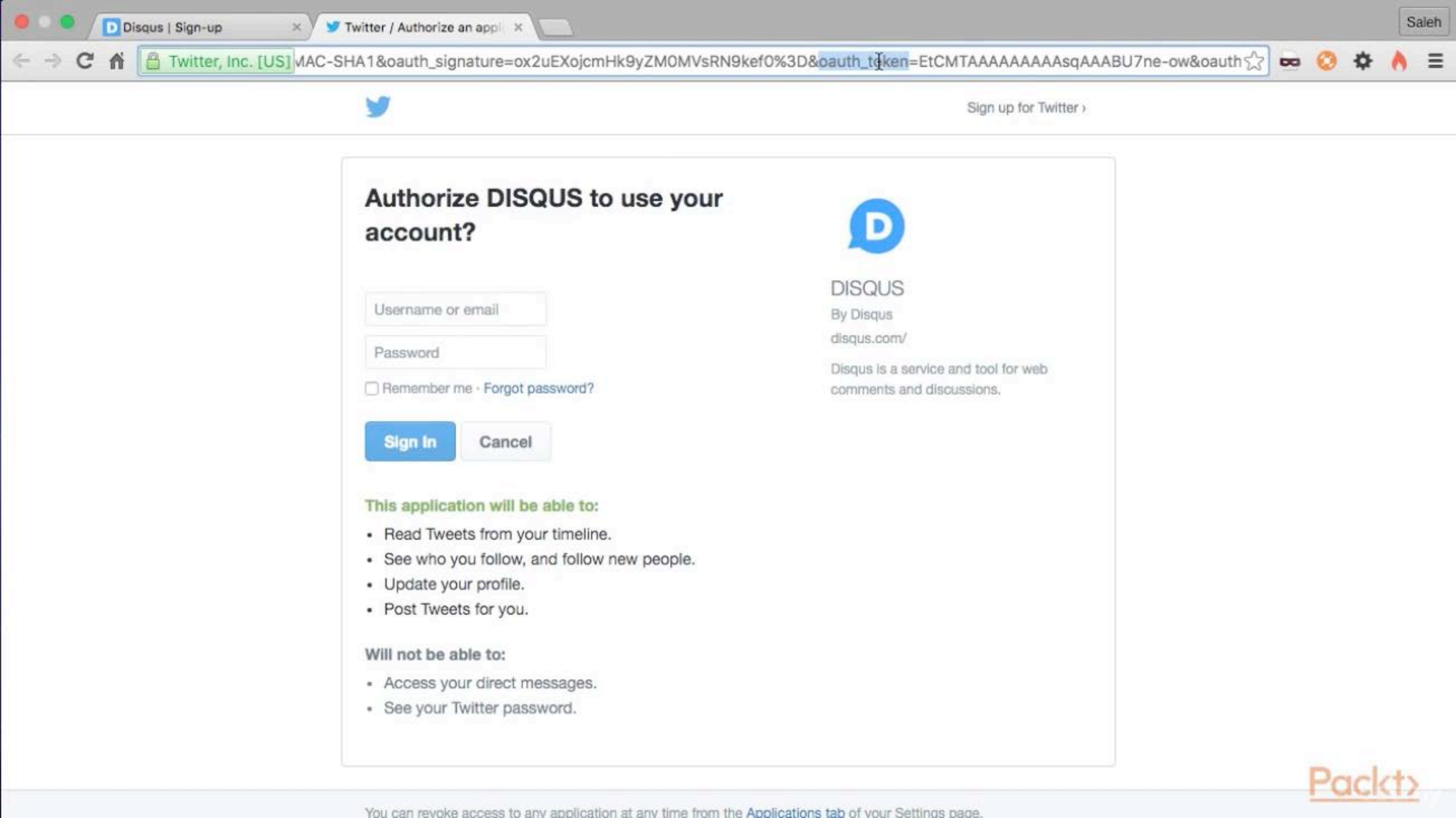
Disqus is a service and tool for web comments and discussions.

This application will be able to:

- Read Tweets from your timeline.
- See who you follow, and follow new people.
- Update your profile.
- Post Tweets for you.

Will not be able to:

- Access your direct messages.
- See your Twitter password.



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- See who you follow, and follow new people.
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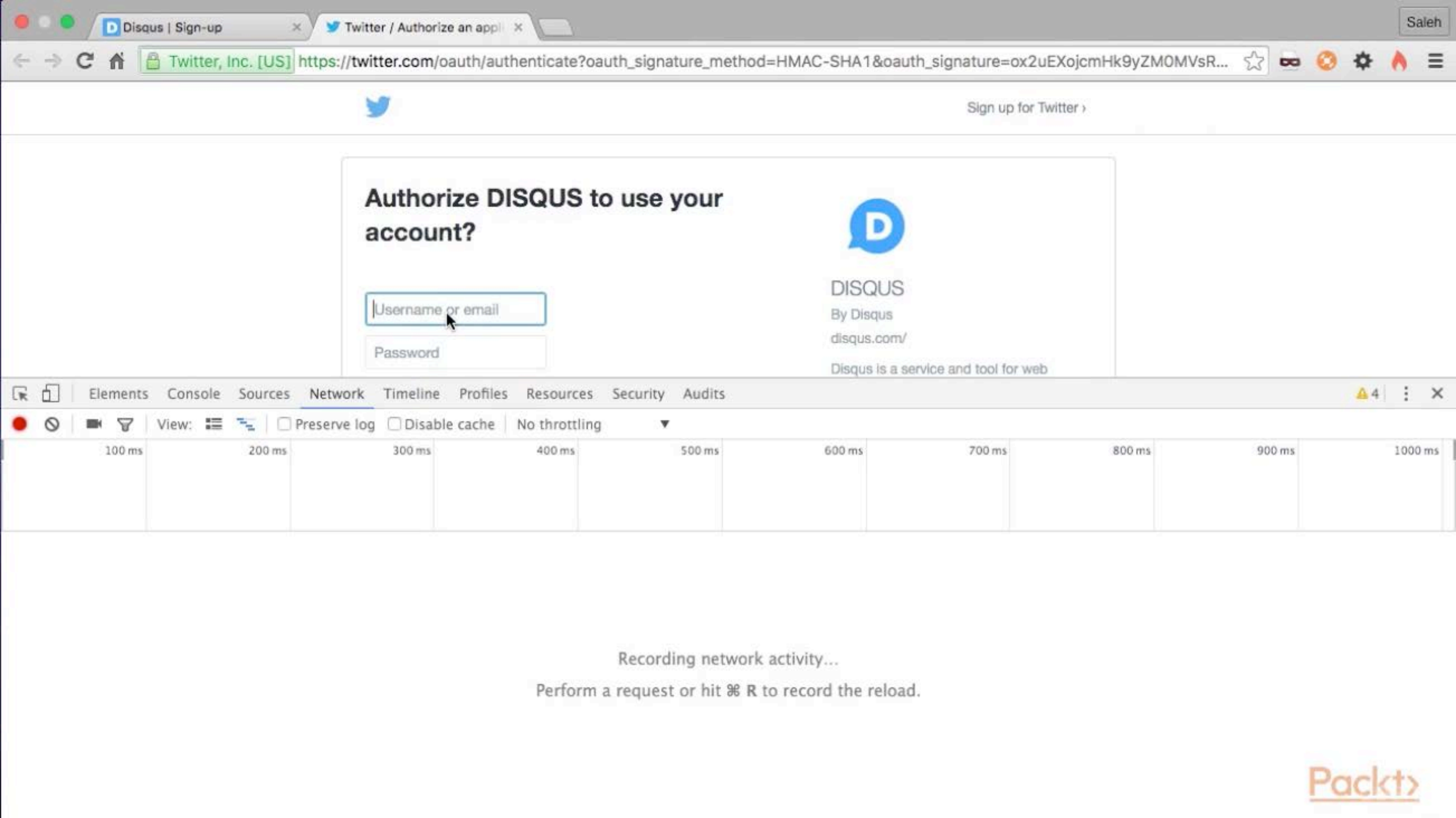
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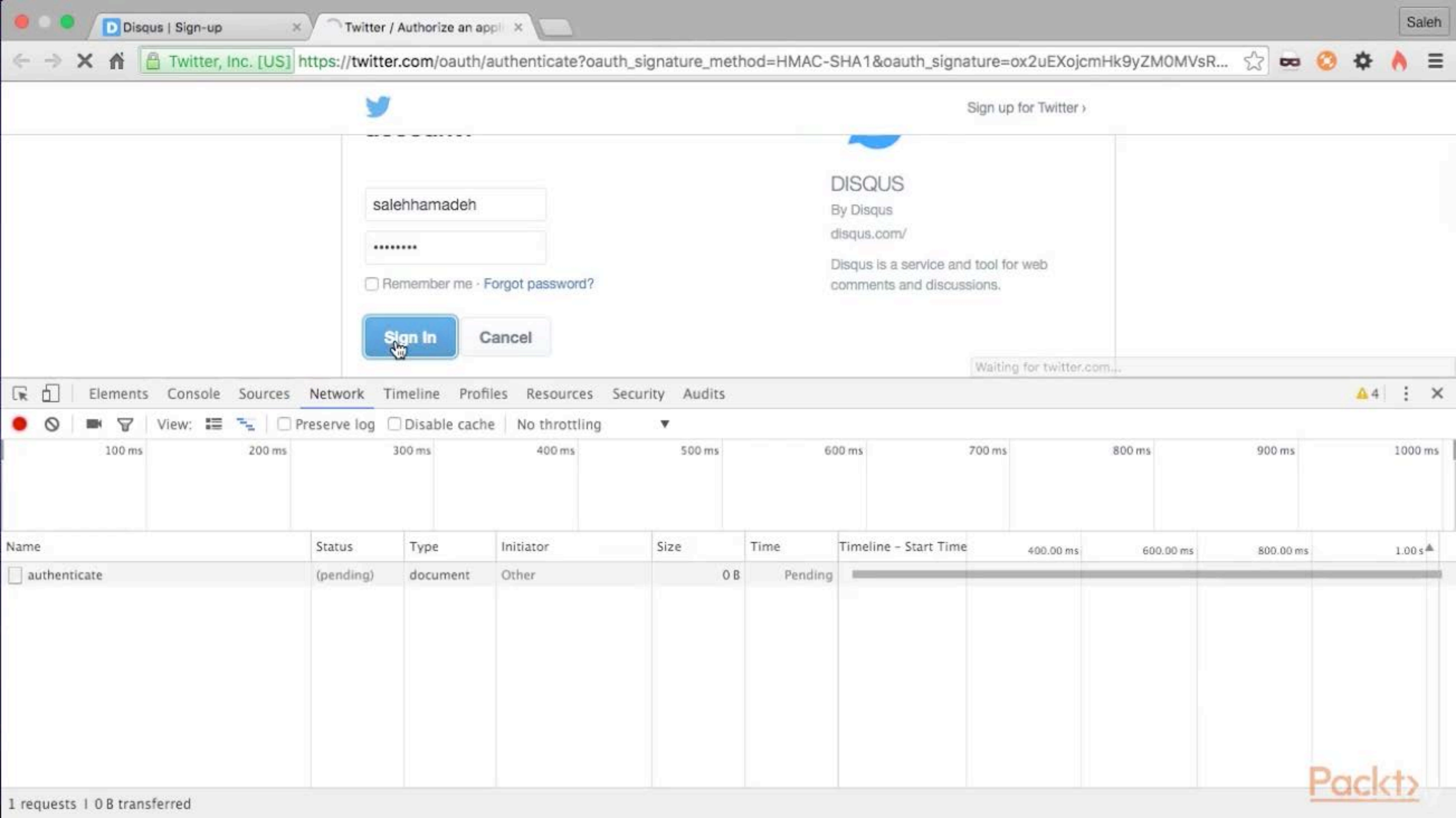


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.....

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DISQUS

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Disqus is a service and tool for web
comments and discussions.

Waiting for twitter.com...

Elements Console Sources Network Timeline Profiles Resources Security Audits									
View: [Icons] <input type="checkbox"/> Preserve log <input type="checkbox"/> Disable cache No throttling									
100 ms 200 ms 300 ms 400 ms 500 ms 600 ms 700 ms 800 ms 900 ms 1000 ms									
Name	Status	Type	Initiator	Size	Time	Timeline - Start Time			
<input type="checkbox"/> authenticate	(pending)	document	Other	0 B	Pending		400.00 ms	600.00 ms	800.00 ms
						1.00 s			

DISQUS



NAME

Saleh Hamadeh

EMAIL

Email

PASSWORD

Elements Console Sources Network Timeline Profiles Resources Security Audits

View: ☐ Preserve log ☐ Disable cache No throttling

500 ms	1000 ms	1500 ms	2000 ms	2500 ms	3000 ms	3500 ms	4000 ms	4500 ms
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Name

×	Headers	Preview	Response	Cookies	Timing
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?state=vLn7PWdEWRFedynrQntrBNsw4SEV...

▼ General

[?redirect_secure=1](#)

login.css

 avatar92.jpg?1450886934

beacon.js

ga.js

☐ `disqus-logo-white.png`

b7c1=7&c2=10137436&c3=1&ns__t=145...

10 requests | 5.7 KB transferred | Finish:...

Request URL: https://disqus.com/_ax/twitter/complete/?state=vLn7PwdeWRFedynrQntrBNsw4SEVJXPg&oauth_token=EtCMTAAAAAAAAAAsqAAABU7ne-ow&oauth_verifier=SLD5QNX2FzH0q8y95nYSJaM0Jm2v3Xu

Request Method: GET

Status Code: 302 FOUND

Remote Address: 104.156.85.134:443

[▼ Response Headers](#) [view source](#)

Accept-Ranges: bytes

Age: 0

Connection: keep-alive

Content-Length: 0

Content-Type: text/html; charset=utf-8

Date: Sun, 27 Mar 2016 20:59:41 GMT

Location: 100° 0' E, 60° 0' N

Next Video

Sample Application Code Architecture