

EXHIBIT 153

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis </O=THEFACEBOOK/OU=EXTERNAL (FYDIBOHF25SPDLT)/CN=RECIPIENTS/CN=942ACCD3D3C54FBEA8B7253E97A8A6D7>
Sent: Wednesday, October 08, 2014 10:10 AM
To: Alberto Tretti; Ime Archibong
Cc: Piyush Mangalick
Subject: Re: Pinterest abuse of /orderedfriends whitelist

Alberto, I have spoken to Eusden last week on this specific topic. The possibility of using invites requests has unblocked their migration plan. They were reluctant to do so earlier, as losing access to non-app friends that they use for their growth would not have been ideal for them.

kp

From: Alberto Tretti <tretti@fb.com>
Date: Wednesday, October 8, 2014 at 9:57 AM
To: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>, Ime Archibong <ime@fb.com>
Cc: Piyush Mangalick <pman@fb.com>
Subject: Re: Pinterest abuse of /orderedfriends whitelist

Ok, things are not as bad as they seemed, apologies for the trash. There was a series of unfortunate coincidences that made me think of the worst.

1/ We verified that the endpoint has not been "leaked" and calls seems to be coming all from Pinterest servers.
2/ We verified that the volume of calls per day is actually around 6M successful and 40M failed due to invalid access tokens.

I am working with Pinterest to understand how they are using this endpoint, why they are making so many calls, and why they have so many invalid access tokens.

@KP - Is Pinterest aware that they won't have access to this endpoint anymore after they migrate to v2? When do you think they will be done with the migration? Let me know if you/they need any help, I can always stop by their office.

Cheers,
Alberto

From: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>
Date: Wednesday, October 8, 2014 at 8:27 AM
To: Alberto Tretti <tretti@fb.com>, Ime Archibong <ime@fb.com>
Cc: Piyush Mangalick <pman@fb.com>
Subject: Re: Pinterest abuse of /orderedfriends whitelist

Thanks a lot, Alberto.

From: Alberto Tretti <tretti@fb.com>
Date: Wednesday, October 8, 2014 at 8:25 AM
To: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>, Ime Archibong <ime@fb.com>

Cc: Piyush Mangalick <pman@fb.com>

Subject: Re: Pinterest abuse of /orderedfriends whitelist

SI is helping me investigate, I'll keep the thread updated when we find out more. Those may not have been russians IP after all, we are digging.

From: Alberto Tretti <tretti@fb.com>

Date: Wednesday, October 8, 2014 at 7:41 AM

To: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>, Ime Archibong <ime@fb.com>

Cc: Piyush Mangalick <pman@fb.com>

Subject: Re: Pinterest abuse of /orderedfriends whitelist

I seeing logs of this calls coming form Russians IP. I'll have Site Integrity help me investigate, but this seems like a serious issue. If that's the case, I would err on the side of shutting this down until Pinterest can secure their calls.

From: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>

Date: Wednesday, October 8, 2014 at 1:05 AM

To: Alberto Tretti <tretti@fb.com>, Ime Archibong <ime@fb.com>

Cc: Piyush Mangalick <pman@fb.com>

Subject: Re: Pinterest abuse of /orderedfriends whitelist

Hello Alberto,

Thanks a lot for flagging this.

Considering Pinterest are in the process of migrating to the V2 of the API (the opportunity to test the Invites Dialog certainly helped unblock this), where this endpoint does not seem to be relevant anymore, I'd rather not thrash the partner at this stage. Instead, I would recommend that we work with them to optimize the number of calls they are making until the final migration is complete.

Thoughts?

kp

From: Alberto Tretti <tretti@fb.com>

Date: Wednesday, October 8, 2014 at 12:32 AM

To: Ime Archibong <ime@fb.com>, Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>

Cc: Piyush Mangalick <pman@fb.com>

Subject: Pinterest abuse of /orderedfriends whitelist

Hi Ime, KP,

I am concerned about Pinterest being whitelisted for the /orderedfriends endpoint (the one that returns a set of closest friends). They are calling this endpoint almost 3 BILLION times a day and growing (see attachment). I found this out by investigating another API issue they raised, and I just asked them for more information on what's going on.

My recommendation is to remove them from the whitelist to prevent issues with platform stability and integrity. We can then evaluate further when they can tell us what's going on. We will have to revisit this whitelist in any case because of PS12N changes, so we may well do it now.

Alberto



EXHIBIT 154

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Eddie O'Neil </O=THEFACEBOOK/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=EDDIE ONEIL>
Sent: Friday, October 17, 2014 10:11 AM
To: Eddie O'Neil
Subject: Re: [tasks] #5345119: /v2.x/me/orderedfriends returns non app friends

Recent Activity - #5345119

Eddie O'Neil:
How does Pinterest use this?

Post a comment · Close task · Assign task · Unsubscribe · Add subscribers · Tag task · Set task priority · Get transaction log

Task Description

Title	#5345119 : /v2.x/me/orderedfriends returns non app friends
Assigned to	Simon Cross
Priority	hi-pri
Tags	Netflix Pinterest API Eng
Subscribers	Benjamin Golub, Alberto Tretti, Harshdeep Singh, Simon Cross, Konstantinos Papamiltiadis, Eddie O'Neil
Created	Oct 9, 2014 2:39pm
Creator	Alberto Tretti
Updated	Oct 17, 2014 10:11am
Description	<p>We have a whitelist only API called orderedfriends. In API v2.x it returns non app friends. The expected behavior is that it should return only app friends.</p> <p>As an alternate solution, we should just not support this endpoint anymore after v1. The only partners using it are Pinterest and Netflix, as listed here: https://our.intern.facebook.com/intern/platform/talent/capability_details.php?cap_id=ordered_friends_api</p>

Comment History

Simon Cross: Oct 9, 2014 2:51pm

Harshdeep, Benjamin Eddie - guys, /v2.x/me/ordered friends returns non-app friends.

We could a) make it return app-friends only or b) deprecate this in v2.0 up.

Only Pinterest and Netflix are using this right now.

I've vote for removing it entirely as part of the transition to v2 - thoughts?

Alberto Tretti: Oct 9, 2014 2:58pm

My only concern is Netflix using this API in conjunction with the Titan API for their "send a recommendation" feature.

Konstantinos, do you know what's the action plan with Netflix and API v2? I am ok with removing it if they are only going to get app-friends.

Konstantinos Papamiltiadis: Oct 9, 2014 3:03pm

My recommendation to Eddie and team has been that we preserve access to this API for Netflix, including non-app friends as part of their TITAN API integration for consoles.

I am 100% in favor of the idea of removing it for Pinterest for 2.0 but i would not recommend removing it for Netflix going forward.

kp

Eddie O'Neil: Oct 9, 2014 3:08pm

What does Pinterest use this for?

We're vetting questions like this with Mike in ~2 weeks, so let me know.

Konstantinos Papamiltiadis: Oct 9, 2014 3:09pm

Mainly to provide recommendations for app friends - who to follow once you have an account set up.

Simon Cross: Oct 9, 2014 3:13pm

Konstantinos - how does Netflix use ordered friends?

They'll likely need to keep all friends to allow their titan integration to work, but not sure they need to retain access to ordered friends

Konstantinos Papamiltiadis: Oct 9, 2014 3:15pm

You are correct Simon. Most importantly they need access to the full friends list before they can make use of orderedfriends.

As part of Titan they use this channel to message friends (app and non app) to watch movies on devices we don't currently offer invites dialogs or even message dialogs.

Simon Cross: Oct 9, 2014 3:17pm

Sure, I get they need all friends to render typeaheads etc.

But how would their integration be different if they didn't have ordered friends?

Alberto Tretti: Oct 9, 2014 3:17pm

They use the precise version of orderedfriends (bucket of ~10-20 friends I think) because the real estate on devices is small and it would be a pain to browse many friends. They try to show you the ones that matter.

Simon Cross: Oct 9, 2014 3:20pm

Alberto Hypothetically if we removed Ordered Friends how long do they need to react? is this a serverside change for them or

is the call to ordered_friends baked into the client?

Alberto Tretti: Oct 9, 2014 3:30pm

If I interpret this data correctly <https://fburl.com/60997669> they only make server side calls, so they should be able to react quickly.

Simon Cross: Oct 15, 2014 8:15am

So i'm game to keep this for Netflix, but think we should remove for Pinterest as they won't continue to get full friends, and it'd be better to avoid the eng work to scope this to app-friends only.

Eddie - can we ask Mike this question as part of the mutual friends discussions

Eddie O'Neil: Oct 17, 2014 10:11am

How does Pinterest use this?

Got feedback about this email? Hit us up! [Tasks](#) [Tool](#) [Feedback](#)