

Admin By Request

# API REQUEST APPROVAL

How to retrieve and approve requests through the API

## Table of Contents

Introduction	3
Set up	3
Getting requests	4
Approving requests	
Approving requests	5
Keeping state	6

#### Introduction

The purpose of this document is to demonstrate, how requests can be retrieved and approve from an external system. The goal is to empty the request queue on an interval and approve or deny requests that are already stored in the external system. The scenario could be to make a recurring job in ServiceNOW and then add buttons on tickets to approve or deny requests.

The public REST API is explained on this page: https://www.adminbyrequest.com/PublicAPI

The API exposes the same features as you can find in the portal and the mobile app. There are three areas: Auditlog, Requests and Inventory. The details and fields of each API can be found here: https://www.adminbyrequest.com/Docs/API/Auditlog.aspx https://www.adminbyrequest.com/Docs/API/Requests.aspx https://www.adminbyrequest.com/Docs/API/Inventory.aspx

#### Set up

The first step is to generate an API key. By default, your tenant data are not exposed to the public API. You have to generate a new key and use to get the data. Note that the API has brute force protections in place, so it's safe to open the API.

Authorization		PRIVACY	DATA RET	TENTION API ACCESS
Endpoint		API Access		About API Access
Lockdown	API access	0N	100	API Access allows you to extract your data through our public API. Note that this setting is a global setting across your Windows, Mac and
🛡 Malware 🗰	APINEy	49562/140214400a0509666602401a35		Server settings. It's either on or off for your entire tenant with the same API key.
Applications		Save		Please refer to <u>this page</u> for documentation.

Once we have this key, we can make a call to the API using the API key as the "apikey" header. We will be using the free Postman (<u>https://www.postman.com/</u>) to demonstrate the use. Here we have called the Auditlog API to get entries.

Auditlog De	¥.		Comments 0 Examples 0 *
GET	https://dc1api.adminbyrequest.com/auditlog		Send 👻 Save 👻
Params Au	uthorization Headers (8) Body Pre-request So	cript Tests Settings	Cookies Code
Headers 💿	7 hidden		
KEY		VALUE	DESCRIPTION *** Bulk Edit Presets •
apikey		495e571a621440bab5b9e8e8c24b1a55	
Key		Value	Description
Jody Cookies	Headers (9) Test Results		Status: 200 OK Time: 544ms Size: 54.95 KB Save Response +
Pretty Ra	aw Preview Visualize JSON 💌 🚍		III Q
206 207 298 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227	<pre>"ElevatedApplications": [</pre>	, C77D5837F7B3AE77220E20E752624EF4EF",	

#### Getting requests

Requests will appear in the "Requests" top menu in the portal as shown here:

Sp	Pending App Users will be notifi approve request w	oroval Reque ed by email of app vithin two weeks, th	ests roval or denial. Req ne approval will also	uests will drop o expire. You can	ut of the list after two weeks. approve or deny requests usi	f the user doesn't use an ng the <u>mobile app</u> also.
		PENDING (1)	APPROVED (0)	DENIED (1)	QUARANTINED (0)	
08-06-202 Email: <u>suppo</u> • Requestin • File: <u>omd.e</u> • Reason: N	21 11:25:27 • FastTr rtafasttracksoftware, ig to run Windows Coi axe • Metadefender, leed to run a cmd	ack Software S <u>som</u> • Phone: 333,3 mmand Processor <u>Clean</u> • Virustotal	upport 33,3333 - Computer 10.0.21390.1 (WinBu <u>Run check</u>	: <u>FTW/N10-AALF</u> iild.160101.0800)	3ORG-DENMARK from Microsoft Corporation	Approve Deny

To get a list of pending requests for approval, we need to call the Requests API indicating that we are only interested in "Pending" states. The URL is then (dc1api for Europe and dc2api for US tenants): <a href="https://dc1api.adminbyrequest.com/requests?status=pending">https://dc1api.adminbyrequest.com/requests?status=pending</a>

This will give us a list in json format with all the same information that is shown in the portal:

GET ~	https://dc1api.adminbyrequ	uest.com/requests?status=pendin	g		Send 🗸
Params Auth Headers O 6 hid	Headers (7) Body Pre	-req. Tests Settings			Cookies
KEY		VALUE	DESCRIF ••	• Bulk Edit	Presets v
apikey		b863e0ffc89948f98415e2622a	fa66f3		
Key		Value	Description		
Body Cookies He	eaders (9) Test Results		😤 200 OK 519 ms	I.31 KB Save	Response v
Pretty Raw	Preview Visualize	Son × Most			Q
1  [    2  {    3  "s    4  "i    5  "t    6  "s    7  "t    8  "t    9  "s    10  "s    11  "a    12  13    14  15    16  17    18  19    20	<pre>canResults": [], ld": 65430027, :raceNo": "46142793", settingsName": "Global", :ype": "Run As Admin", :ypeCode": 0, status": "Pending approval statusCode": 4, application": { "file": "cmd.exe", "name": "Windows Comman "vendor": "Microsoft Co "version": "10.0.21390 "sha256": "61B4C38792F9 "scanResult": "Clean", "scanResult": "Clean", "scanResultCode": 0, "threat": null, "virustotalLink": "httj 61B4C38792F586995F9 , user": { "account": "AZUREAD\\F. "fullName": "FastTrack "email": "support@fast" "phone": "333.333.3333</pre>	<pre>1", nd Processor", orporation", .1 (WinBuild.160101.0800)", 586995F8E1B8E935B2DE1D6C7941A ps://www.virustotal.com/lates 8E1B8E935B2DE1D6C7941A71A57FC ASTTRACKSOFTWARESUP", Software Support", tracksoftware.com", "</pre>	71A57FC1A1269D2E1E31 t-scan/ 1A1269D2E1E3164CD"	64CD",	

#### Approving requests

Notice that each request has an "id" field. This field is used to perform an approve or deny request as explained in the documentation here: <u>https://www.adminbyrequest.com/RequestsAPI</u>

Resources			
https://dc1api.adminbyrequest.com/requests	D	Returns an array of requests	GET
https://dc1api.adminbyrequest.com/requests/{id}	0	Returns one request	GET
https://dc1api.adminbyrequest.com/requests/{id}	D	Approve request. If request is already approved or started, nothing happens	PUT
https://dc1api.adminbyrequest.com/requests/{id}	0	Deny request. If request is already approved or started, nothing happens	DELETE

Decourace

So all we have to do is to make a simple PUT request with the ID:

PUT	~	https://dc1api.adminbyrequest.com/requests/65430027	Send	

... and the request is now approved and the user is notified accordingly. It's that simple!

S	Pending Approval Re Users will be notified by email o approve request within two wee	quests approval or denial. Rec ks. the approval will als	quests will drop o o expire. You can	ut of the list after two weeks. I approve or deny requests usi	f the user doesn't use an ng the <u>mobile app</u> also.
	PENDING (0	APPROVED (1)	DENIED (1)	QUARANTINED (0)	
08-06-202 Email: <u>suppor</u> • Requesting • File: <u>cmd.e</u> • Reason: Ne	1 11:25:27 • FastTrack Softwa t <u>afasttracksoftware.com</u> • Phone: g to run Windows Command Proce xe • Metadefender: <u>Clean</u> • Virus eed to run a cmd	re Support 333,333,333 · Compute ssor 10.0,21390.1 (WinB total: <u>Run check</u>	r: <u>FTWIN10-AAL</u> uild.160101.0800)	<u>3ORG-DENMARK</u> from Microsoft Corporation	Deny

#### Keeping state

So how do you only get new requests? The easiest way is to store the highest id you have received before and use this for the next calls. Here are the filters for the Requests API:

status	Only get request of a certain type (possible values: Pending, Denied, Approved, Quarantined)	int
startid	The starting ID you wish to receive. Can be used for incremental offload of data to your own system	int
take	Maximum number of resources to return. Default is 50 to preserve bandwidth, maximum is 1000. For queries with more than 1000 records, pagination is mandatory	int
last	Entries are retrieve in ascending order. Last returns the latest X number of entries in descending order. Maximum is 1000. Take and startid cannot be combined with last.	int
wantscandetails	Use this filter, if you wish to receive detailed lists of scan results. The default is to give you the overall result only	bit
reason	Can be passed when denying a request	string
deniedby	Can be passed when denying a request - this has to be an email address that matches a portal user, otherwise it will be ignored	string
approvedby	Can be passed when approving a request - this has to be an email address that matches a portal user, otherwise it will be ignored	string

Example unit of get one pending request: https://dciapi.adminbyrequest.com/requests?status-pending&take-1&wantscandetails-1

Pagination works by using the last id in the list and feeding it as startid in the next query

• To copy new data to your own system, we recommend to store the highest id (last entry in list) you have retrieved from a previous call and pass this number plus 1 as 'startid'

Let's say the last request we received was 65430930. Then we add one (since we already received 65430930) and use as startid, meaning that we only want to see any requests with an id higher than 65430930:

GET v https://do1api.adminbyrequest.com/requests?startid=65430931

Send

### Questions?

Feel free to contact us. If you do not have a direct contact at FastTrack Software, feel free to create a support ticket at <u>https://www.adminbyrequest.com/Support</u>