



Turbo Intruder – Hacker Tools: Going faster than ever! ☑☑

BY ANNA HAMMOND · MARCH 1, 2022 · LAST UPDATED ON MARCH 6, 2025

How often do you find yourself running scans that take ages to complete? How often do you cancel a scan because it has been taking too long? But what if you left it to run for 3 more minutes? Would that have given you a breakthrough result?

Today, we're going to go fast, really fast! Let's take a look at how Turbo Intruder can help us achieve lightning fast web application scan speeds!



Turbo Intruder Logo

☑☑ What is Turbo Intruder?

Turbo Intruder is a plugin for BurpSuite, which is by the far the most well-known web application hacking toolkit out there. The Turbo Intruder plugin allows you to perform all kinds of scans with incredible speed and precision.

But why use Turbo Intruder when BurpSuite already has Intruder? Well Turbo Intruder is way faster, uses way less memory and ohh yea, can be used for free, unthrottled!

What makes it so fast?

In the past, tools have been increasing their requests per second speed by increasing the amount of connections. That was already a great start, as can be seen here.

First of all, I'm going to send requests one after the other. The settings here are:

```
concurrentConnections=1,  
requestsPerConnection=1,  
pipeline=False
```

How many requests per second does that grant us? Well a mere 8.

| RPS: 8 |

Time to go faster by setting our concurrent connections. I'm going to go with 25, but we recommend a number between 5 and 30.

```
concurrentConnections=25,  
requestsPerConnection=1,  
pipeline=False
```

What is the result? Well we see a 400% increase in speed! That's great.

| RPS: 39 |

But can we go even faster? Well, let's do something that not a lot of tools do, and that's enabling more requests per connection. In this case, we're reusing TCP connection. So instead of having to perform a TCP handshake with every request, we only have to make one for every 100 requests. We suggest setting this value to anything between 50 and 200.

```
concurrentConnections=25,  
requestsPerConnection=100,  
pipeline=False
```

What does that do for our speed? Well we see another 2000% increase in speed!

| RPS: 869 |

Now, we have one more trick up our sleeve! And that's HTTP pipelining. This little known feature of HTTP allows you to send multiple requests all at once without having to wait for the responses. Thus we can send 10 requests at once and then wait for the server to reply to all of them, whereas previously, we'd send a request, wait for the response, send another one, wait for the response and so on. As you can see, with HTTP pipelining, we can go faster!

```
concurrentConnections=25,  
requestsPerConnection=100,  
pipeline=True
```

How much faster? Well let's just double our speed once again!

| RPS: 1785 |

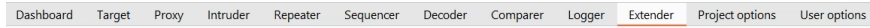
Is any more proof you need to realize how insanely fast we can go using Turbo Intruder?

HOWEVER! Do be very mindful of the server you're attacking. If the program doesn't allow this amount of requests, do not go there.

☐☐ Installing Turbo Intruder

Time to get it up and running on your machine. For this blog, I'm going to assume that you've already set up BurpSuite.

In Burpsuite, head over to the tab listing and select the "Extender" tab.



BurpSuite tab list

From there, select the Turbo Intruder plugin in the listing on the left.

Token Extractor	☆☆☆☆☆	10 Feb 2022	
Token Incrementor	☆☆☆☆☆	27 Nov 2020	
TokenJar	☆☆☆☆☆	10 Feb 2022	
Turbo Data Miner	☆☆☆☆☆	26 Jan 2021	
Turbo Intruder	☆☆☆☆☆	09 Nov 2021	
Upload Scanner	☆☆☆☆☆	21 Feb 2022	Pro extension
UPnP Hunter	☆☆☆☆☆	06 Dec 2021	
UUID Detector	☆☆☆☆☆	23 Feb 2017	
ViewState Editor	☆☆☆☆☆	10 Mar 2021	

Extension listing

The last step is installing it. In the right pane, click the "Install" button.

Turbo Intruder

Turbo Intruder is a Burp Suite extension for sending large numbers of HTTP requests and analyzing the results. It's intended to complement Burp Intruder by handling attacks that require extreme speed or complexity. The following features set it apart:

- Fast - Turbo Intruder uses a HTTP stack hand-coded from scratch with speed in mind. As a result, on many targets it can seriously outpace even fashionable asynchronous Go scripts.
- Flexible - Attacks are configured using Python. This enables handling of complex requirements such as signed requests and multi-step attack sequences. Also, the custom HTTP stack means it can handle malformed requests that break other libraries.
- Scalable - Turbo Intruder can achieve flat memory usage, enabling reliable multi-day attacks. It can also be run in headless environments via the command line.
- Convenient - Boring results can be automatically filtered out by an advanced diffing algorithm adapted from Backslash Powered Scanner

On the other hand it's undeniably harder to use, and the network stack isn't as reliable and battle-tested as core Burp's.


Basic use

To use it, simply highlight the area you want to inject over, then right click and 'Send to Turbo Intruder'. This will open a window containing a Python snippet which you can customise before launching the attack.

For full usage instructions, please refer to [the documentation](#).

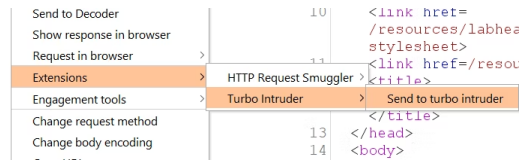
Author: James 'albinowax' Kettle, PortSwigger Web Security
Version: 1.25
Source: <https://github.com/portswigger/turbo-intruder>
Updated: 09 Nov 2021

Rating: ☆☆☆☆☆

Popularity: 

Turbo Intruder Description

If all is well, you should now be able to go to a request in the "Repeater", "Proxy" or any other tab, right click it, head over to "Extensions", "Turbo Intruder" and "Send to turbo intruder"



Sent to Turbo Intruder

That's all we need to do in order to install Turbo Intruder!

☐☐ Our first run!

Check out the YouTube video in order to see us exploit a race condition using Turbo Intruder!

Conclusion

Turbo Intruder is your new tool for any fuzzing, scanning or bruteforcing! It's designed for speed and it gives you speed! Start using it today to hack even faster!

If you would like to recommend a tool for us to cover next week, then be sure to let us know down below. Also be sure to check out [all the previous Hacker Tools articles](#), such as [the last one on Meg](#).

Did you know that there is a video accompanying this article? Check out [the playlist](#)!

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