

Memo-rap-check

Haters delight

Due to some risky Bitcoin "investments" the networth of rapper 50 Cent is once again higher then 50 cent. After a recent bankruptcy case the rapper managed to come back full swing.

According to a recent interview the rapper plans to invest the money into the community by funding supplying crack dealers with the latest and newest scales.

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Rapper 50 cent back on track..

Hot this month



BREAKING NEWS

Tekashi69 sues Takeshi's Castle for copyright infringement.

Rapper allegedly states: I'm clearly in *heavy mubmling* and therefore this is a clear and shut case.

Main page of Memo rap, the first thing we notice is the dude sure is stoned :)

Task descriptions

- Browse the application. Make note of any endpoints which might process user input.
- You can find the flag within the route "/flag". Within the source code, find the reason why you can't access it.
- Within the source, find out how and by whom your inputs are processed.
- Exploit the application to retrieve the flag remotely. For debuggin purposes you might want to temporarily patch the source, for example by commenting out parts of the code.

The first thing we do is obviously nmap -sV

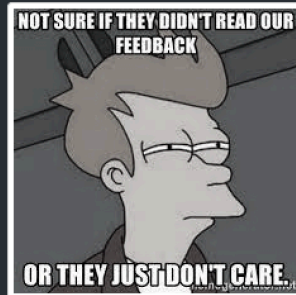
Memo Rap Check

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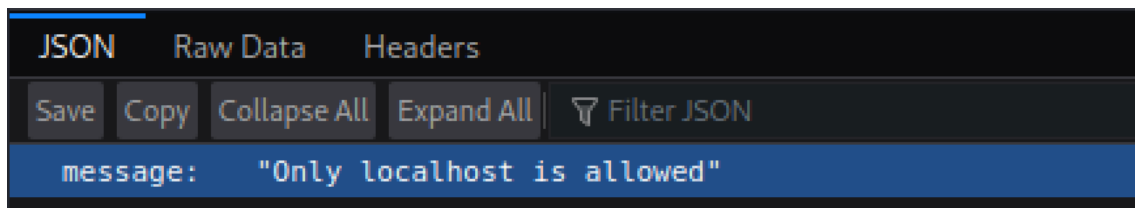
NEWSPAGE

Let us know on how amazing and original you think our news are.

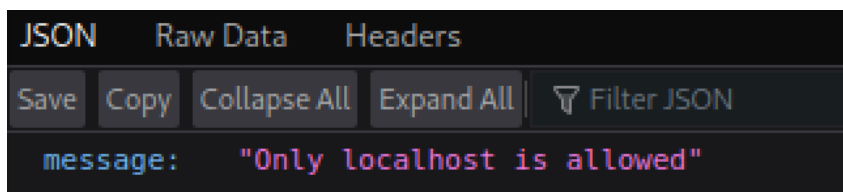


Submit

Feedback directory: the text field might be exploitable, but let's check other directories first

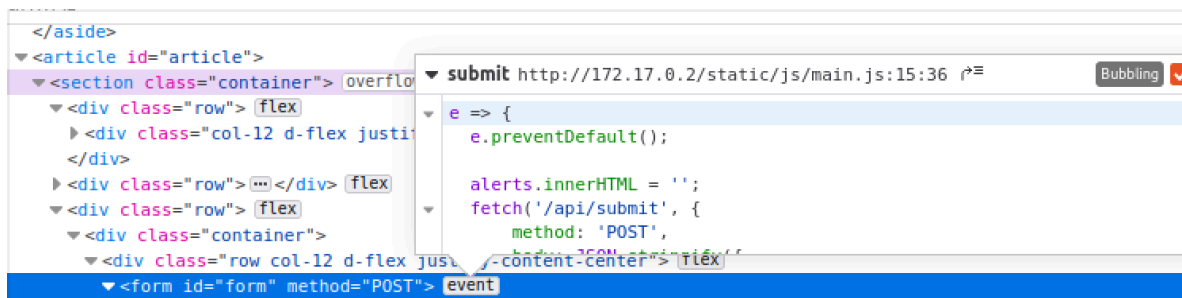


The list directory is only allowed to be accessed with localhost, so only if I am the one who runs the server

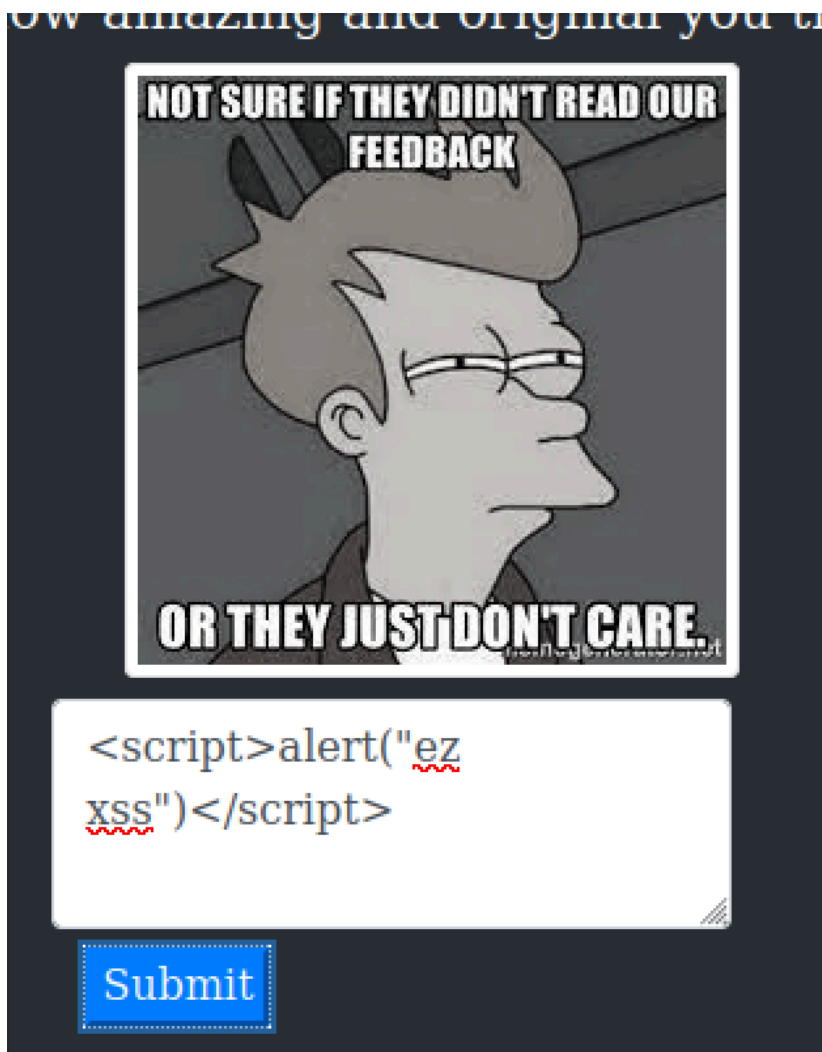


Same thing with /flag directory

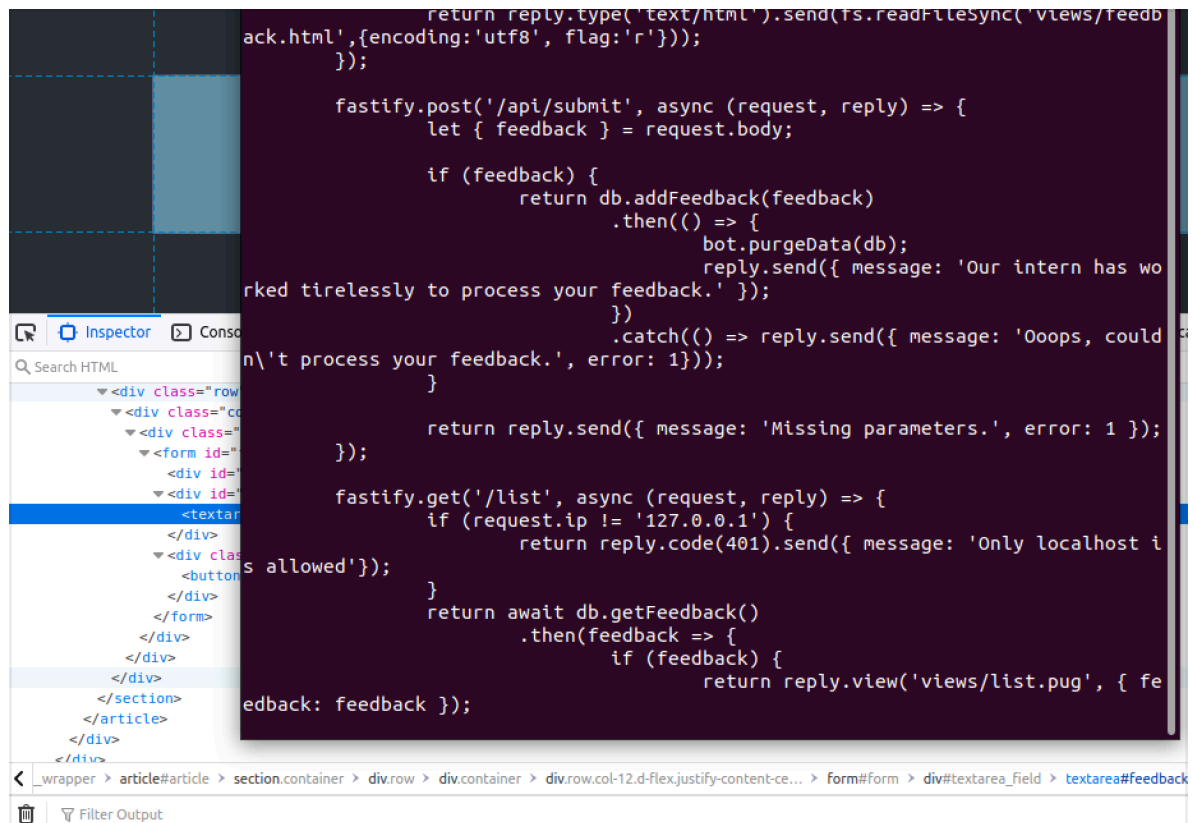
Let's get back to our /feedback page and see if we can inject some code in that chat box



from what I see the submit button creates POST request



First thing that comes to mind is to try and exploit the comment box, which didn't work :(



In the container we can encounter the source code

```

if (feedback) {
  return db.addFeedback(feedback)
    .then(() => {
      bot.purgeData(db);
      reply.send({ message: 'Our intern has worked tirelessly to process your feedback.' });
    });
}

```

We can notice what `addFeedback()` function is called when we press the button

```

fastify.get('/flag', async (request, reply) => {
  if (request.ip !== '127.0.0.1') {
    return reply.code(401).send({ message: 'Only localhost is allowed' });
  }
  return reply.send({ message: 'flag_you_wouldnt_copy_paste_content_Would_u?' });
});

```

We could have commented out the function and check `/list` in the browser, but for what if we already got the flag:
`flag_you_wouldn't_copy_paste_content_Would_u?`