Local_file_inclusion_on_wbpsc.gov.in

Local File Inclusion on wbpsc.gov.in/Download?param1=

Local File Inclusion on

https://wbpsc.gov.in/Download?

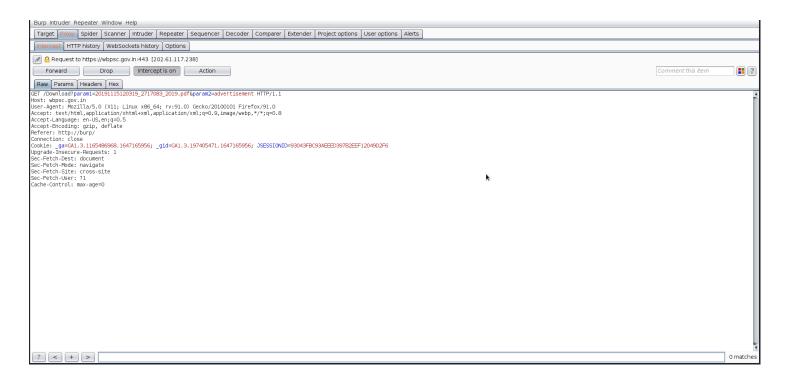
param1=20191115120319_2717083_2019.pdf¶m2=advertisement endpoint which allows an attacker to include files on a server through the web browser. I was able to include /etc/passwd, /etc/shdow, /etc/group, /etc/my.cnf and many other server files on my browser form the server.

Summary:

https://wbpsc.gov.in/Download?param1=20191115120319_2717083_2019.pdf¶m2=advertisement endpoint has a parameter <code>Download?param1=</code> which takes directory traversal payload eg. .../.../.../.../.../.../.../.../etc/passwd%00 and fetches critical internal files form the server which can result in information disclosure to full system compromise.

Steps To Reproduce:

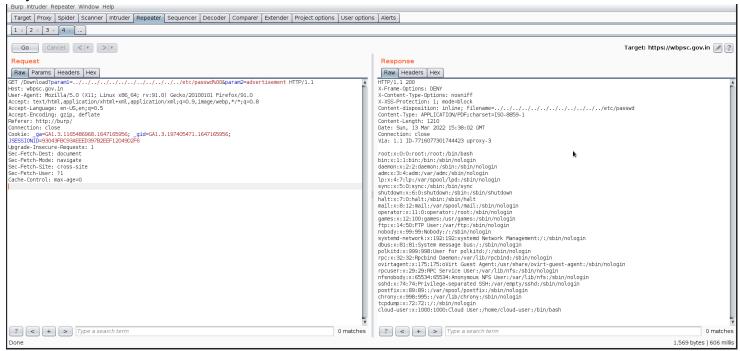
1. https://wbpsc.gov.in/Download?
param1=20191115120319_2717083_2019.pdf
government
Go to this page and intercept the request on burpsuite.



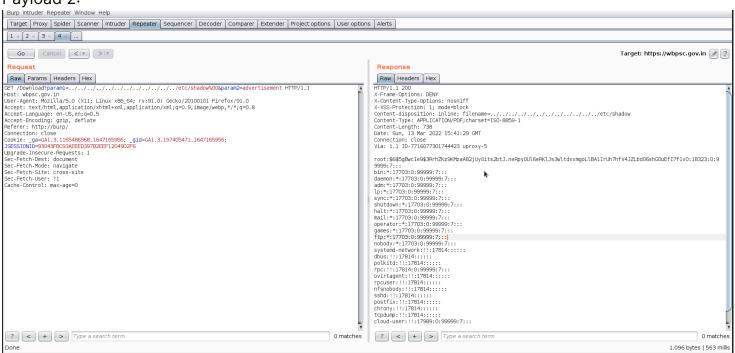
- 2. Send the request to repeater and turn off the interception.
- 3. Insert payloads in the parameter Download?param1=
- Payload 1: ../../../../../../../../etc/passwd%00
- Payload 2: ../../../../../../../../etc/shadow%00
- Payload 3: ../../../../../../../../../etc/group%00
- Payload 4: ../../../../../../../etc/my.cnf%00

1. After inserting each payload in the param1 and sending the request I was able to read the contents of above files. Here are the Requests and Responses as a POC:

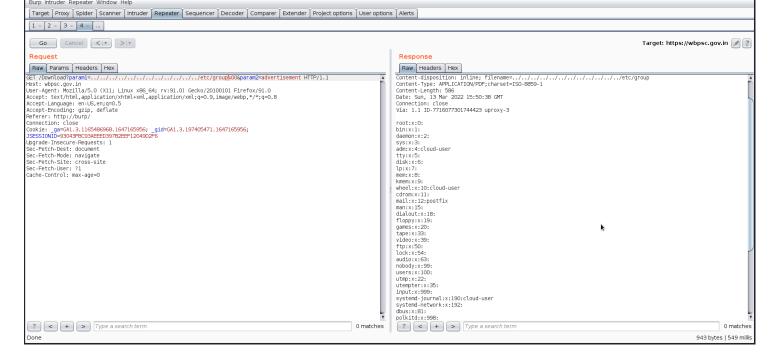
Payload 1:



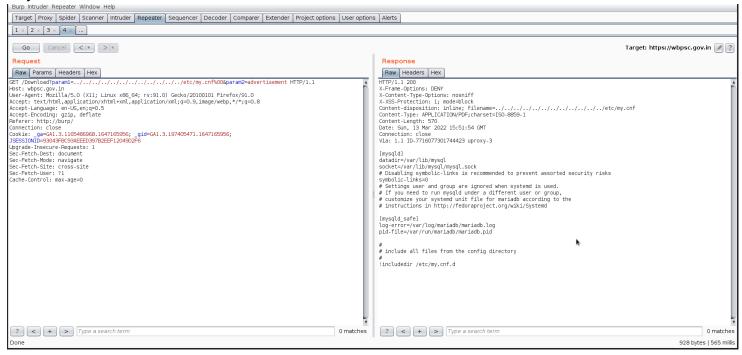
Payload 2:



Payload 3:



Payload 4:



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 attack cannot perform a directory traversal attack |
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