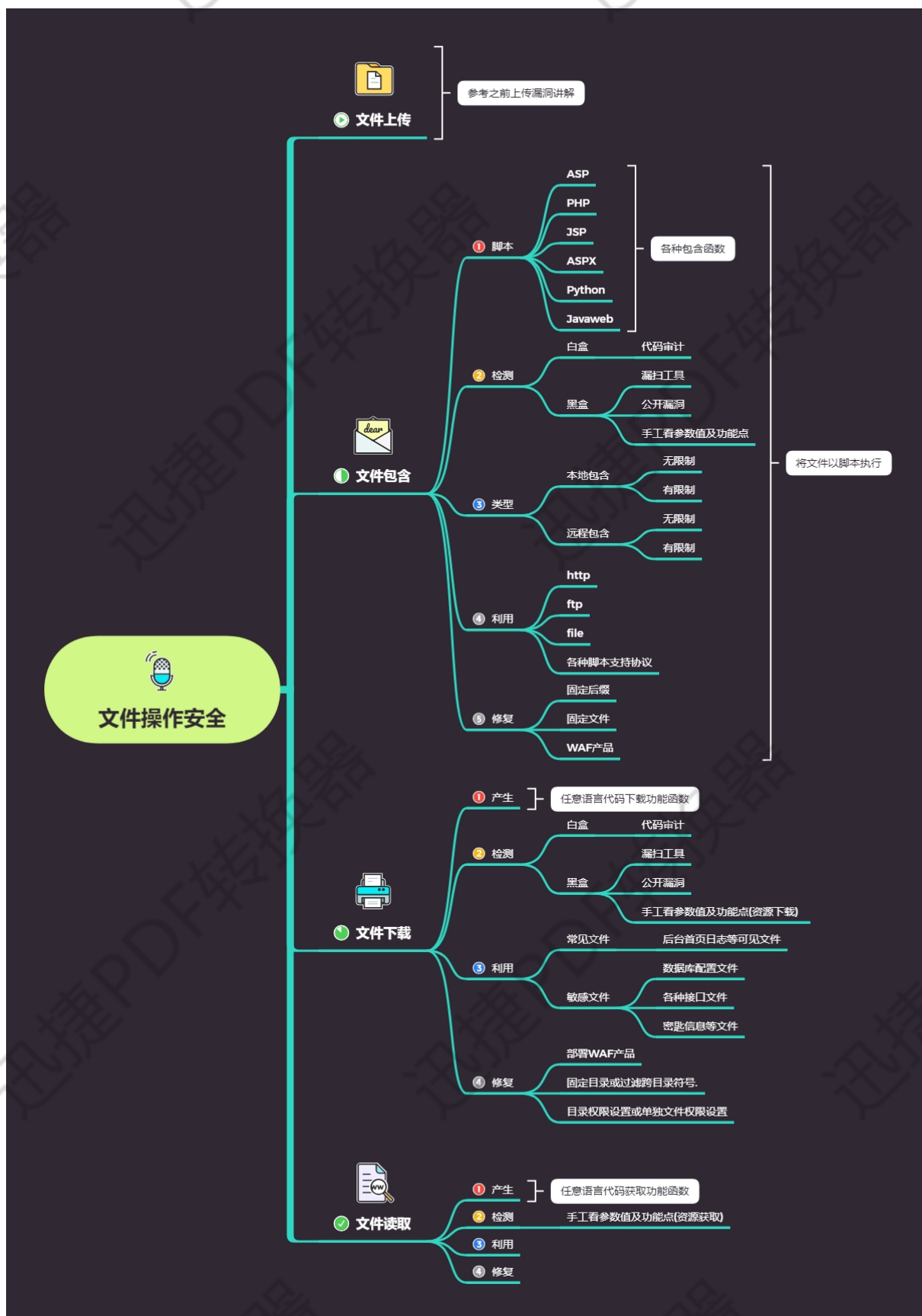


## WEB 漏洞-文件操作之文件下载读取全解



#文件下载，读取  
原理，检测，利用，修复等

#利用

数据库配置文件下载或读取后续

接口密钥信息文件下载或读取后续

#文件名, 参数值, 目录符号

read.xxx?filename=

down.xxx?filename=

readfile.xxx?file=

downfile.xxx?file=

../ ..\ ..\.\../等

%00 ? %23 %20 .等

&readpath=、&filepath=、&path=、&inputfile=、&url=、&data=、&readfile=、&menu=、META-INF= 、WEB-INF

- 1.文件被解析, 则是文件包含漏洞
- 2.显示源代码, 则是文件读取漏洞
- 3.提示文件下载, 则是文件下载漏洞

下载或文件读取漏洞:

对应文件: 配置文件 (数据库, 平台, 各种等)

#各种协议调用配合

#Javaweb 文件下载代码

[https://blog.csdn.net/Cheng\\_May/article/details/78600833](https://blog.csdn.net/Cheng_May/article/details/78600833)

```
<%@ page language="java" import="java.util.*" pageEncoding="UTF-8"%>
```

```
<%
```

```
String path = request.getContextPath();
```

```
String                                basePath                                =
```

```
request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path+"/";
```

```
%>
```

```
<a href="/download/DownloadServlet?filename=1.jpg">文件下载</a>
```

```
public void doGet(HttpServletRequest request, HttpServletResponse response)
```

```
throws ServletException, IOException {
```

```
response.setCharacterEncoding("UTF-8");
```

```
//设置 ContentType 字段值
```

```
response.setContentType("text/html;charset=utf-8");
```

```
//获取所要下载的文件名称
```

```
String filename = request.getParameter("filename");
```

```
//下载文件所在目录
```

```
String folder = "/filename/";
```

```
//通知浏览器以下载的方式打开
```

```
response.addHeader("Content-type", "application/octet-stream");
response.addHeader("Content-Disposition", "attachment;filename="+filename);
//通知文件流读取文件
InputStream in = getServletContext().getResourceAsStream(folder+filename);
//获取 response 对象的输出流
OutputStream out = response.getOutputStream();
byte[] buffer = new byte[1024];
int len;
//循环取出流中的数据
while((len = in.read(buffer)) != -1){
    out.write(buffer,0,len);
}
}
```

---

### 涉及案例：

- Pikachu-文件下载测试-参数
- Zdns-文件下载真实测试-功能点
- 小米路由器-文件读取真实测试-漏洞
- RoarCTF2019-文件读取真题复现-比赛
- 百度杯 2017 二月-Zone 真题复现-比赛拓展

爬虫扫描地址-分析参数名参数值-文件操作安全-对应脚本  
修改提交方式测试-读取 WEB 配置文件 WEB-INF/web.xml  
访问读取对应地址-访问读取 flag 对应 class 文件-  
(WEB-INF/classes/com/wm/ctf/FlagController.class)

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### 涉及资源：

<https://www.seebug.org/vuldb/ssvid-98122>

<https://www.ichunqiu.com/battalion?t=1&r=57475>

[https://blog.csdn.net/Cheng\\_May/article/details/78600833](https://blog.csdn.net/Cheng_May/article/details/78600833)

<https://buuoj.cn/challenges#%5B%5BRoarCTF%202019%5DEasy%20Java%5B%5D>

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