New issue

There is an Incorrect Access Control vulnerability in kob #29

Open

RacerZ-fighting opened on Mar 19 · edited by RacerZ-fighting Edits

Version: latest （1.0.0-SNAPSHOT）

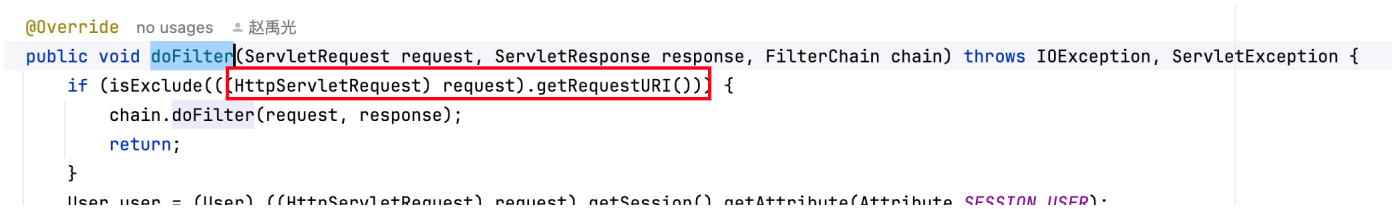
Branch: master

Problem:

There is an authentication bypass vulnerability in kob. An attacker can exploit this vulnerability to access sensitive API without any authorization.

SourceCode

1. The affected source code class is `com.ke.schedule.server.console.configuration.OperationFilter`, and the affected function is `doFilter`. In the filter code, use `request.getRequestURI()` to obtain the request path,



```
@Override no usages 赵禹光
public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain) throws IOException, ServletException {
    if (isExclude(((HttpServletRequest) request).getRequestURI())) {
        chain.doFilter(request, response);
        return;
    }
    User user = (User) ((HttpServletRequest) request).getSession().getAttribute(Attribute.SESSION_USER);
```

```
private boolean isExclude(String path) {  1 usage  赵禹光
    for (String url : excludedURL) {
        if (matcher.match(url, path)) {
            return true;
        }
    }
    return false;
}
```

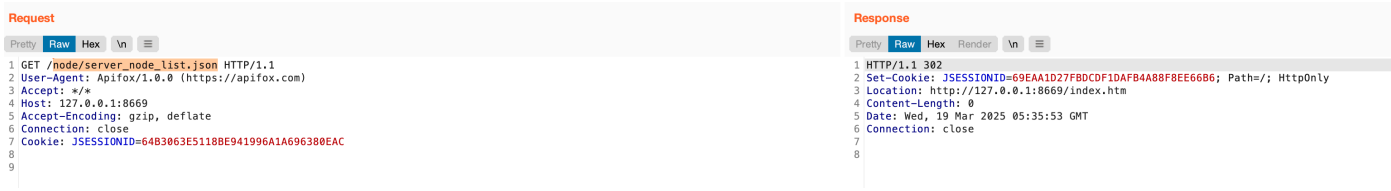
and then determine whether the `url` matches `/static/**/*.*` pattern. If the condition is met, it will execute `chain.doFilter(request, response);` to bypass the Filter. Otherwise, it will block the current request and redirect to the login page.

2. The problem lies in using `request.getRequestURI()` to obtain the request path. The path obtained by this function will not parse special symbols, but will be passed on directly, so you can use `/static/../` to bypass it.

Take the backend interface `/node/server_node_list.json` as an example. By using `/static/../node/server_node_list.json`, it can bypass the `OperationFilter`, allowing access to any node's information.

Reproduce the vulnerablitity

Accessing `http://127.0.0.1:8669/node/server_node_list.json` directly will result in redirecting to an admin login page.



However, accessing `http://127.0.0.1:8669/static/../node/server_node_list.json` will bypass the authentication check and access to any user's information.

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Assignees

No one assigned

Labels

No labels

Type

No type

Projects

No projects

Milestone

No milestone

Relationships

None yet

Development

Code with Copilot Agent Mode

No branches or pull requests

Participants