



Local File Read in CandidATS 3.0.0 via XXE

Summary



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Affected versions	Version 3.0.0
State	Public
Release date	2022-10-27

Vulnerability

Kind	XML injection (XXE)
Rule	<u>083. XML injection (XXE)</u>
Remote	Yes
CVSSv3 Vector	CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:N/A:N
CVSSv3 Base Score	6.5
Exploit available	Yes
CVE ID(s)	<u>CVE-2022-42745</u>



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The XXE present in CandidATS 3.0.0, allows an unauthenticated remote attacker to read arbitrary files from the server. To trigger this vulnerability, we will need to upload a malicious DOCX to the server.

Exploitation

In this attack we will be able to read arbitrary files from the server, through an XXE.

The screenshot shows the CandidATS web application interface. The top navigation bar includes links for Dashboard, Activities, Job Orders, Candidates, Companies, Contacts, Lists, Calendar, Reports, and Settings. The main content area displays the 'Candidates' section with a search bar and a list of candidates. The selected candidate, Babu KS, has the following details:

- Candidate:** Babu KS
- E-Mail:** nidamanutashok99@gmail.com
- 2nd E-Mail:** [redacted]
- Home Phone:** [redacted]
- Cell Phone:** 798 905-5148
- Work Phone:** [redacted]
- Best Time To Call:** 10 AM
- Address:** Hyderabad, TS 500073
- Web Site:** varuntech.com
- Created:** 22-03-22 (08:41 PM) (CATS Administrator)
- Owner:** CATS Administrator
- Gender:** Male
- Ethnicity:** American Indian
- Date Available:** 24-03-22
- Current Employer:** Ashoka Pvt Ltd
- Key Skills:** Manual Testing and Automation
- Can Relocate:** Yes
- Current Pay:** 3.2
- Desired Pay:** 7.6
- Pipeline:** 4
- Submitted:** 0
- Source:** Indeed
- Modified:** 15-08-22 (01:07 PM) (CATS Administrator)
- Veteran Status:** No Veteran Status
- Disability Status:** No

The 'Job Order Pipeline' table shows the following entries:

Match	Title	Company	Owner	Added	Entered By	Status	Action
★★★★★	Manual Testers	Internal Postings	CATS A.	22-03-22	CATS A.	Candidate Responded	[Icons]
☆☆☆☆☆	Full Stack Developer	Company #1	CATS A.	17-01-22	CATS A.	No Contact	[Icons]
★★★★★	Electric Tech	Fake Company	CATS A.	12-06-22	CATS A.	No Contact	[Icons]
☆☆☆☆☆	partest	P**** M****	CATS A.	30-06-22	CATS A.	No Contact	[Icons]



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The screenshot shows the CandidATS web application interface, similar to the one above. The 'Attachments' section is highlighted with a red box, showing a file named 'exploit.docx' uploaded on 12-10-22 at 12:32:05 AM. The 'Job Order Pipeline' table is also visible below the attachments.

Our security policy

We have reserved the CVE-2022-42745 to refer to these issues from now on.

- <https://fluidattacks.com/advisories/policy/>

System Information

- Version: CandidATS 3.0.0
- Operating System: GNU/Linux

Mitigation

There is currently no patch available for this vulnerability.

Credits

The vulnerability was discovered by Carlos Bello from Fluid Attacks' Offensive Team.

References



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Vulnerability discovered.



2022-10-11

Vendor contacted.



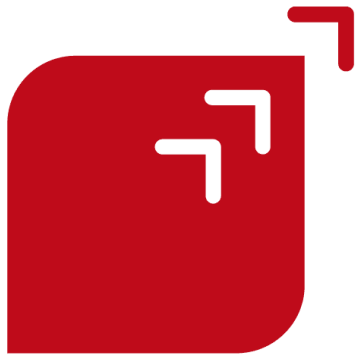
2022-10-11

Vendor replied acknowledging the report.



2022-10-27

Public Disclosure.



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