

### **Department of the Environment, Climate & Communications**



# **NCSC Alert**

## Apache ActiveMQ RCE Vulnerability - CVE-2023-46604

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## **Description**

Apache ActiveMQ has released a security advisory that addresses the critical vulnerability CVE-2023-46604. CVE-2023-46604 poses a significant risk to affected organisations, as exploitation may allow an attacker to achieve remote code execution (RCE) on vulnerable Apache ActiveMQ instances.

You can view the Apache ActiveMQ advisory here.

### **Products Affected**

Apache ActiveMQ is an open-source message broker software that implements the Java Message Service (JMS) API. It is widely used in enterprise and web applications to facilitate communication between various software components.

Affected versions:

- Apache ActiveMQ 5.18.0 before 5.18.3
- Apache ActiveMQ 5.17.0 before 5.17.6
- Apache ActiveMQ 5.16.0 before 5.16.7
- Apache ActiveMQ before 5.15.16
- Apache ActiveMQ Legacy OpenWire Module 5.18.0 before 5.18.3
- Apache ActiveMQ Legacy OpenWire Module 5.17.0 before 5.17.6
- Apache ActiveMQ Legacy OpenWire Module 5.16.0 before 5.16.7
- Apache ActiveMQ Legacy OpenWire Module 5.8.0 before 5.15.16

### **Impact**

Successful exploitation of this vulnerability may allow a remote attacker with network access to a broker to run arbitrary shell commands. This could lead to complete system compromise.

#### Recommendations

The NCSC strongly advises organisations to identify any assets that are running affected Apache ActiveMQ versions and to upgrade these to version 5.15.16, 5.16.7, 5.17.6, or 5.18.3, which fixes this issue.

Please see this advisory from Rapid7 with details of active exploitation, a POC and IOCs.

Further information can be found here:



- Apache ActiveMQ Security Advisory: CVE-2023-46604
- Apache ActiveMQ Security Tags
- CVE-2023-46604 Proof of Concept
- Openwall Security Advisory: CVE-2023-46604
- Rapid7 Security Advisory: CVE-2023-46604
- Rapid7 Technical Analysis: CVE-2023-46604

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National Cyber Security Centre 29-31 Adelaide Road, Dublin, D02 X285, Ireland

**Tel:** +353 (0)1 6782333 **Mail:** certreport@decc.gov.ie

Web: ncsc.gov.ie Twitter: ncsc\_gov\_ie LinkedIn: ncsc-ie

