#### Report Procedure:

## **Vulnerability Name:**

Allocation of Resources Without Limits or Throttling

### CWE:

CWE-770

## **OSWAP:**

Allocation of Resources Without Limits or Throttling.

# **Description:**

The HTTP/2 implementation accepted streams with excessive numbers of SETTINGS frames and also permitted clients to keep streams open without reading/writing request/response data. By keeping streams open for requests that utilised the Servlet API's blocking I/O, clients were able to cause server-side threads to block eventually leading to thread exhaustion and a DoS.

### **Business Impact:**

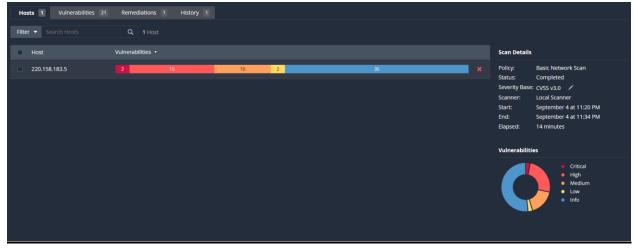
This is a type of attack that prevents the users from getting access to the system. This happens when when the system the server of a website is overwhelmed with the amount of users this can lead to people not trusting the website and loosing users due to lack of trust. This can also lead to interruption in the services that can cause more issues.

### **Affected URL:**

URL:https://vtop2.vitap.ac.in/vtop/initialProcess

IPv4-220.158.183.5

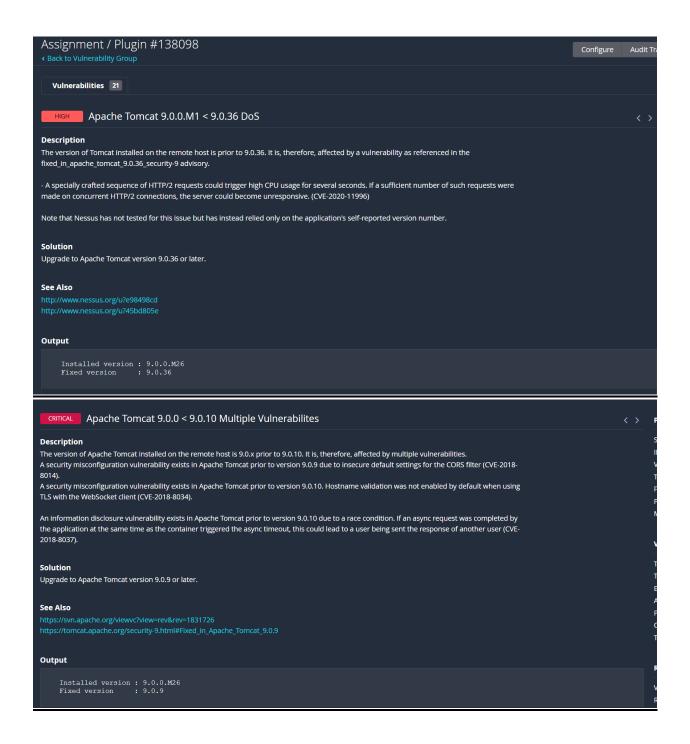
# POC(Proof of concept):

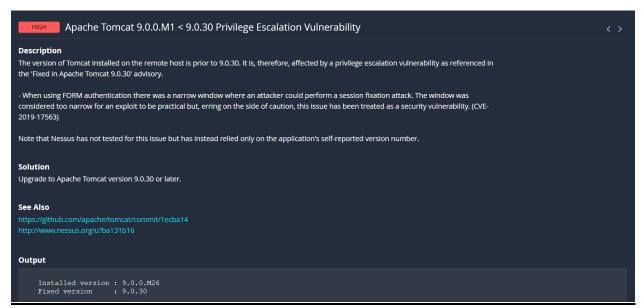


■ Sev ▼	CVSS •	VPR *	Name .	Family .	Count •		Host Details
MIXED			apache Tomcat (Multiple Issues)	Web Servers	28 ⊙		IP: 220.158.183.5 DNS: 220.158.183.5.static-
MIXED			TLS (Multiple Issues)	Service detection			andharapradesh.powertel.in.183.158 .220.in-addr.arpa
D NFO			SSL (Multiple Issues) HTTP (Multiple Iss	General General			OS: F5 BIG-IP Local Traffic Manager load balancer
INFO			HTTP (Multiple Issues)	Web Servers			Start: September 4 at 11:20 PM End: September 4 at 11:34 PM
INFO			iETF Md5 (Multiple Issues)	General			Elapsed: 14 minutes  KB: Download
INFO			TLS (Multiple Issues)	General			Vulnerabilities
D INFO			Nessus SYN scanner	Port scanners			Critical
INFO			Service Detection	Service detection			High Medium
D INFO			Asset Attribute: Fully Qualified Domain Name (FQDN)	General			• Info
INFO			Common Platform Enumeration (CPE)	General			
INFO I			Device Type	General			
INFO			Host Fully Qualified Domain Name (FQDN) Resolution	General			
D INFO			Inconsistent Hostname and IP Address	Settings			
INFO			Nessus Scan Information	Settings	1 0	1	

1		Sev •	CVSS •	VPR •	Name .	Family .	Count ▼		Scan Details	
			9.8		Apache Tomcat 7.0.x < 7.0.100 / 8.5.x < 8.5.51 / 9.0.x < 9.0.31 Multiple	Web Servers			Policy: Basic   Status: Comp	Network Scan
			9.8		Apache Tomcat 9.0.0 < 9.0.10 Multiple Vulnerabilities	Web Servers			Severity Base: CVSS v	
		HIGH	8.6		Apache Tomcat 9.0.0.M1 < 9.0.21 vulnerability	Web Servers			Start: Septer	mber 4 at 11:20 P
		HIGH		9.2	Apache Tomcat 9.0.0.M1 < 9.0.1 Multiple Vulnerabilities	Web Servers			Elapsed: 14 mir	mber 4 at 11:34 P nutes
Ī		HIGH		8.4	Apache Tomcat 9.0.0.M1 < 9.0.43 Multiple Vulnerabilities	Web Servers			Vulnerabilities	
		HIGH			Apache Tomcat 9.0.0.M1 < 9.0.16 DoS	Web Servers				<ul><li>Critical</li></ul>
		HIGH			Apache Tomcat 9.0.0,M1 < 9.0.20 DoS Plugin ID: 132419	Web Servers				High     Medium     Low
Γ		HIGH		6.7	Apache Tomcat 9.0.0.M1 < 9.0.30 Privilege Escalation Vulnerability	Web Servers				<ul><li>Info</li></ul>
		HIGH			Apache Tomcat 9.0.0.M1 < 9.0.37 Multiple Vulnerabilities	Web Servers				
Ī		HIGH			Apache Tomcat 9.x < 9.0.40 Information Disclosure	Web Servers				
		HIGH		4.4	Apache Tomcat 9.0.0-M1 < 9.0.68 Request Smuggling Vulnerability	Web Servers				
Ī		HIGH		4.4	Apache Tomcat 9.0.0.M1 < 9.0.10 multiple vulnerabilities	Web Servers				
		HIGH		4.4	Apache Tomcat 9.0.0.M1 < 9.0.36 DoS	Web Servers				
Ī		HIGH		4.4	Apache Tomcat 9.0.0.M1 < 9.0.71	Web Servers				
		HIGH		3.6	Apache Tomcat 8.0.x < 8.0.52 / 8.5.x < 8.5.31 / 9.0.x < 9.0.8 Denial of S	Web Servers				
		HIGH		3.6	Apache Tomcat 9.0.0.M1 < 9.0.8 Denial of Service Vulnerability	Web Servers				
		HIGH		8.4	Apache Tomcat 9.0.0 < 9.0.35 Remote Code Execution	Web Servers				
	П	HIGH		7.5	4.4 Apache Tomcat 9.0.0-M1 < 9.0.68 Request Sm	uggling Vulnerability W	eb Servers	:		1 (

HIGH	7.5	4.4	Apache Tomcat 9.0.0-M1 < 9.0.68 Request Smuggling Vulnerability	Web Servers	1	0	
HIGH	7.5	4.4	Apache Tomcat 9.0.0.M1 < 9.0.10 multiple vulnerabilities	Web Servers		0	
HIGH	7.5	4.4	Apache Tomcat 9.0.0.M1 < 9.0.36 DoS	Web Servers		0	
HIGH	7.5	4.4	Apache Tomcat 9.0.0.M1 < 9.0.71	Web Servers		0	
HIGH	7.5	3.6	Apache Tomcat 8.0.x < 8.0.52 / 8.5.x < 8.5.31 / 9.0.x < 9.0.8 Denial of S	Web Servers		0	
HIGH	7.5	3.6	Apache Tomcat 9.0.0.M1 < 9.0.8 Denial of Service Vulnerability	Web Servers		0	
HIGH	7.0	8.4	Apache Tomcat 9.0.0 < 9.0.35 Remote Code Execution	Web Servers		0	
MEDIUM	6.5	4.4	Apache Tomcat 9.0.0.M1 < 9.0.5 Insecure C Plugin ID: 151502 Algorithm	Web Servers		0	
MEDIUM	6.5	4.2	Apache Tomcat 7.0.x <= 7.0.108 / 8.5.x <= 8.5.65 / 9.0.x <= 9.0.45 / 10	Web Servers		0	1
MEDIUM	6.1	3.8	Apache Tomcat 9.0.0.M1 < 9.0.80	Web Servers		0	
MEDIUM	5.3	1.4	Apache Tomcat 9.0.0.M1 < 9.0.48 vulnerability	Web Servers		0	
MEDIUM	5.3		Apache Tomcat Default Files	Web Servers		0	
MEDIUM	4.3	2.2	Apache Tomcat 9.0.0.M1 < 9.0.12 Open Redirect Weakness	Web Servers		0	
MEDIUM	4.3	2.2	Apache Tomcat 9.0.0.M1 < 9.0.72	Web Servers		0	
MEDIUM	4.3	1.4	Apache Tomcat 8.5.x < 8.5.58 / 9.0.x < 9.0.38 HTTP/2 Request Mix-Up	Web Servers		0	
LOW	3.7	2.2	Apache Tomcat 9.0.0.M1 < 9.0.62 Spring4Shell (CVE-2022-22965) Mitig	Web Servers		0	
Low	3.7	1.4	Apache Tomcat 9.0.0.M22 < 9.0.2 Insecure CGI Servlet Search Algorith	Web Servers		0	
INFO			Apache Tomcat Detection	Web Servers		0	





Now from this report we get an idea of all the vulnerabilities that a website has It tells us what are these vulnerabilities and also how critical are they as in this case it tells us how safe the website is and what are the potential vulnerability threats that can happen on the website **Remediation:** 



To fix these vulnerabilities we have to upgrade Apache Tomcat to any version 9.0.80 or later.