

Black Duck Security Advisory

PyTorch Vulnerable to Remote Code Execution (RCE) via Command Injection in 'torch.distributed.rpc' framework

BDSA

BDSA-2024-3458 | CVE-2024-5480 | Published Jun 7, 2024 | Updated Sep 27, 2024

i This vulnerability is currently under review with Black Duck.

HIGH 8.7 BDSA

No Fix

Exploit Available Jun 5, 2024

119 Days Vulnerability Age

PyTorch is vulnerable to remote code execution (RCE) via command injection within the torch.distributed.rpc framework. An attacker could exploit this in order to remotely attack master nodes that are starting distributed training.

Zero-click Remote Code Execution

This vulnerability can result in the execution of code on the system, triggered by a remote attacker without requiring or relying on any third party action.



How to fix it

No Solution

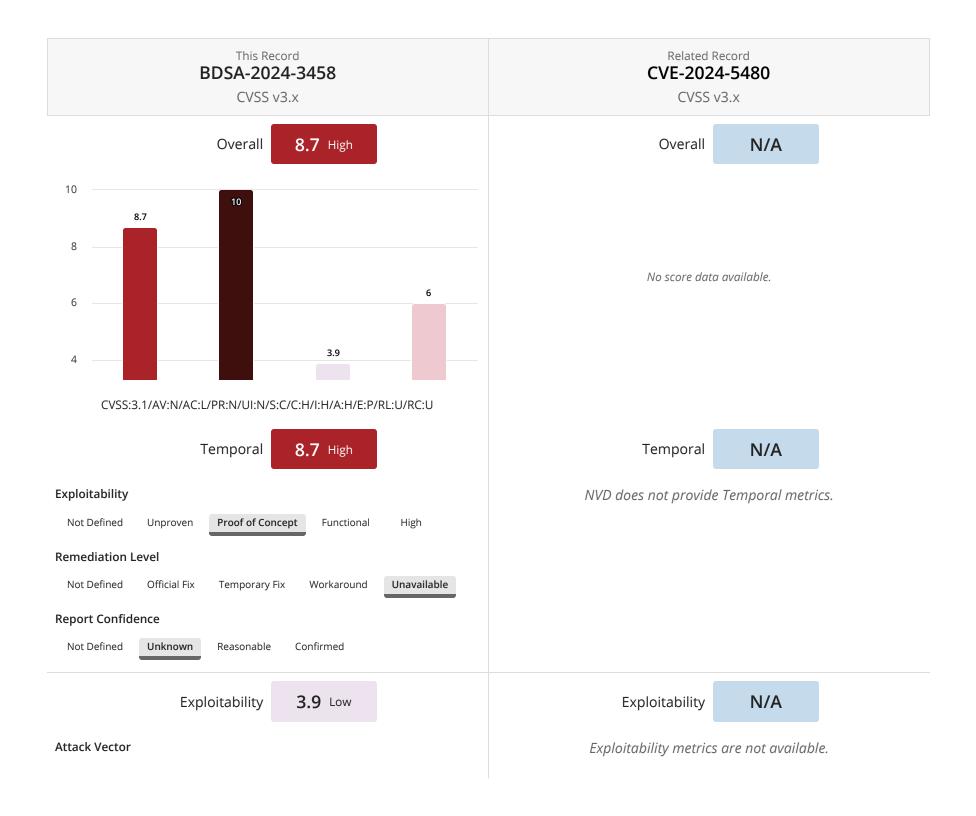
No Workaround

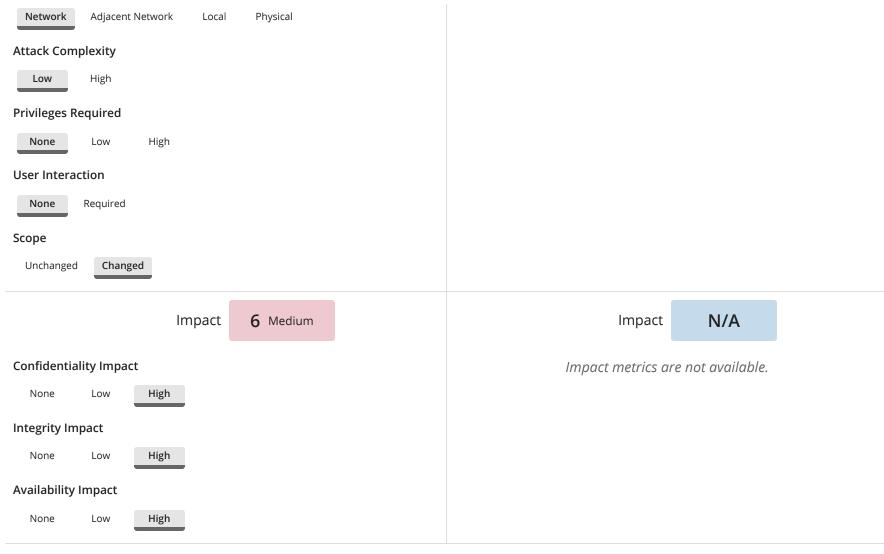
Scores and Metrics

Scores for the related BDSA and NVD records, based on the Common Vulnerability Scoring System (CVSS).

CVSS v2

CVSS v3.x





Common Weakness Enumeration (CWE)

CWE-77 - Improper Neutralization of Special Elements used in a Command ('Command Injection')

The software constructs all or part of a command using externally-influenced input from an upstream component, but it does not neutralize or incorrectly neutralizes special elements that could modify the intended command when it is sent to a downstream component.