

VULNERABILITY REPORT

PROJECT NAME:	sample.c
REPORT DATE:	30 Jan, 2024

--

	BASE_SCORE: 7.4
--	-----------------

Metric	Value
AttackVector	Network
AttackComplexity	High
PrivilegesRequired	None
UserInteraction	Required
Confidentiality	High
Integrity	Low
Availability	Low
Scope	Changed

FIXES

Replace strcpy with strncpy, specifying a maximum length to copy.

SUMMARY

None

	BASE_SCORE: 7.5
--	-----------------

Metric	Value
AttackVector	Adjacent
AttackComplexity	Low
PrivilegesRequired	None
UserInteraction	None
Confidentiality	High
Integrity	Low
Availability	Low
Scope	Unchanged

FIXES

Replace ``vulnerable_function(input)`` with ``safe_function(input, 20)``, where ``safe_function`` performs input validation and truncation before passing the data to the vulnerable function.

SUMMARY

None



BASE_SCORE: 8.1

Metric	Value
AttackVector	Network
AttackComplexity	High
PrivilegesRequired	None
UserInteraction	None
Confidentiality	High
Integrity	Low
Availability	Low
Scope	Changed

FIXES

Use `strncpy()` with a fixed size buffer to ensure it doesn't exceed the allocated memory.

SUMMARY

None



BASE_SCORE: 4.2

Metric	Value
AttackVector	Unknown
AttackComplexity	Low
PrivilegesRequired	None
UserInteraction	None
Confidentiality	None
Integrity	Low
Availability	High
Scope	Unchanged

FIXES

Use ``int32_add`` function from the C standard library to perform the addition operation, which handles integer overflow correctly.

SUMMARY

None

BASE_SCORE: 7.2

Metric	Value
AttackVector	Local
AttackComplexity	Low
PrivilegesRequired	None
UserInteraction	None
Confidentiality	Low
Integrity	Low
Availability	High
Scope	Unchanged

FIXES

Replace ``strcpy`` with ``strncpy``, ensuring the destination buffer size is sufficient to accommodate the copied string.

SUMMARY

None

BASE_SCORE: 7.6

Metric	Value
AttackVector	Local
AttackComplexity	High
PrivilegesRequired	None
UserInteraction	Required
Confidentiality	High
Integrity	Low
Availability	High
Scope	Changed

FIXES

Use ``strncpy`` function to limit the length of copied data to prevent buffer overflow.

SUMMARY
None

		BASE_SCORE: 5.5
Metric	Value	
AttackVector	Unknown	
AttackComplexity	High	
PrivilegesRequired	None	
UserInteraction	Required	
Confidentiality	High	
Integrity	Low	
Availability	High	
Scope	Unchanged	

FIXES

Replace ``printf(user_input)`` with a safe function like ``snprintf()``, ensuring that the input is properly sanitized and escaped to prevent code injection attacks.

SUMMARY
None