



Interpreting CVSS

VULNERABILITY MANAGEMENT

Common Vulnerability Scoring System (CVSS)

- Industry standard for identifying the severity of a vulnerability
- Analysts use this score to help prioritize remediation efforts
- Measured in six categories
 - Three for the exploitability
 - Three for the impact

CVSS Base Score

10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)

CVSS Temporal Score

7.8 (CVSS2#E:POC/RL:OF/RC:C)



CVSS 3.0 and CVSS

- CySA+ focuses on CVSS not CVSS 3.0
- CVSS 3.0 adds two additional measures
 - User Interaction (exploitability metric)
 - Scope (both exploitability and impact metric)

CVSS Base Score

10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)

CVSS Temporal Score

7.8 (CVSS2#E:POC/RL:OF/RC:C)

CVSS v3.0 Base Score

9.8 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)

CVSS v3.0 Temporal Score

8.8 (CVSS:3.0/E:P/RL:O/RC:C)



Access Vector (AV) Metric

- Describes the method an attacker would use to exploit the vulnerability

Value	Method	Description	Score
L	Local	Physical or logical access to the system required	0.395
A	Adjacent Network	Access to LAN for affected system required	0.646
N	Network	Remote access from WAN	1.000



Access Complexity (AC) Metric

- Describes the difficulty an attacker would have to exploit the vulnerability

Value	Method	Description	Score
H	High	Requires difficult/ specialized conditions	0.350
M	Medium	Requires “somewhat specialized” conditions	0.610
L	Low	No specialized conditions required	0.710



Authentication (Au) Metric

- Describes the number of times an attacker would have to authenticate

Value	Method	Description	Score
M	Multiple	Requires two or more authentications	0.450
S	Single	Requires one authentication	0.560
N	None	No authentication required	0.704



Confidentiality (C) Metric

- Describes the impact to confidentiality of data processed by the system

Value	Method	Description	Score
N	None	No impact to confidentiality	0.0
P	Partial	Considerable disclosure of information	0.275
C	Complete	Total disclosure of information	0.660



Integrity (I) Metric

- Describes the impact to integrity of data processed by the system

Value	Method	Description	Score
N	None	No impact to integrity of the system	0.0
P	Partial	Modification of some information possible	0.275
C	Complete	Total loss of integrity	0.660



Availability (A) Metric

- Describes the impact to availability of the system

Value	Method	Description	Score
N	None	No impact to availability of the system	0.0
P	Partial	Reduced performance or loss of functionality	0.275
C	Complete	Total loss of availability	0.660



CVSS Vector

- Single-line format to show the vulnerability ratings for all six metrics

CVSS Base Score

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CVSS Temporal Score

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