



LINCOLN | OMAHA | KEARNEY | MEDICAL CENTER

Effective: 12/31/17
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Responsible University Administrator:
Vice Chancellor for Information Services & CIO

Responsible University Office:
Information Technology Services

Policy Contact:
Chief Information Security Officer,
security@nebraska.edu

1 ITS-04 Vulnerability Management Policy

2 Scope

3 This policy governs the University of Nebraska and applies to everyone who conducts work at or provides services to
4 the University or utilizes University information assets, including all faculty, staff, students, contractors, consultants.

5 Policy Statement

6 All servers, websites, and applications developed with university resources as defined in Executive
7 Memorandum 16 will be subject to inventory, scanning and security review. All scanning and security review will be
8 conducted under the supervision of the Information Security Office. Under no circumstances will any server, website
9 or application using university resources be allowed to access the network with having first been inventoried, scanned
10 and reviewed.

11 The University of Nebraska will proactively utilize a vulnerability scanning tool to identify potential security risks to the
12 network, servers and endpoints. It is the goal to mitigate all identified vulnerabilities. In the instance where the
13 technical fixing of the vulnerability presents a greater business risk than the vulnerability, the Exception Process shall
14 be followed.

- 15 A. All scanning and security review will be conducted under the supervision of the Information Security Office.
16 B. All websites, applications or systems that:
17 C. Work with high and medium risk data as defined the ITS-05 Data Classification and Management Policy.
18 D. Increase the risk to the University brand(s) through direct brand association.
19 E. Are developed for a fee using university resources.
20 F. Put other systems at risk over the network.
21 G. Jeopardize the safety of people will be subject to inventory, scanning and security review.

22 Experimental or exploratory sites are not subject to this process unless they are hosted on the university's network or
23 servers.

24 Reason for Policy

25 To protect all digital assets and systems at the University of Nebraska from unauthorized access security audits and
26 vulnerability management will be utilized by the University of Nebraska to:

- 27 A. Discover and prioritize all networked assets
28 B. Proactively identify and fix security vulnerabilities
29 C. Manage and reduce business risk
30 D. Ensure compliance with laws, regulations and best security practices

31 Procedures

32 A. **Vulnerability Scanning Schedule:** The campus network (and all devices that are connected) is scanned
33 periodically to ensure a rotation that will scan all devices. The Data Centers are scanned every two weeks.
34 NOTE: Scans of individual devices by the Information Security Office are viewed as normal trouble shooting and
35 will not be communicated in advance.

36 1. **Servers:**

37 1.a. Each system administrator shall have access to the data from the scan for their individual systems.

38 1.b. The system administrator shall evaluate the results of the scans at a minimum monthly and fix vulnerabilities
39 based upon their professional judgment.

40 2. **End User Devices (Workstations/Printers etc.):**

41 2.a. End User devices (Workstations/Printers) are in scope for the Vulnerability Management Program.

42 2.b. The support person is responsible for ensuring the devices are fully patched.

43 2.c. All devices need to have the most current firmware installed.

44 2.d. All drivers that are installed on the end user devices need to be maintained.

45 2.e. If the device is experiencing difficulty when being scanned (i.e. network connectivity is lost, printing of random
46 characters etc.), and the firmware and all drivers are up to date, a case will be opened with the vendor.

47 2.f. Each support person shall have access to the data from the scans.

48 2.g. The support person shall fix vulnerabilities monthly.

49 2.h. In the case where a vulnerability cannot be mitigated, the Exception Process shall be followed.

50 3. **General**

51 3.a. If a particular device is reporting a large number of open vulnerabilities which is putting the network at risk, the
52 device will be removed from the network

53 3.b. If a vulnerability cannot be fixed, the support person shall follow the Exception Process and provide written
54 documentation relating to the remediation plan.

55 4. **Exception Process**

56 4.a. If the vulnerability scanning software causes the machine to fail, the support person shall submit an Exception
57 Request to security@nebraska.edu

58 4.b. All efforts shall be made to technically remediate the vulnerability. However, if the vulnerability cannot be
59 remediated, an exception request will be granted

60 4.c. Disagreements will be escalated to the NU Security Council.

61 4.d. The Information Security Office will maintain all documentation regarding inability to fix vulnerabilities and all
62 exception requests

63 5. **PCI Vulnerability Reports**

64 5.a. The Information Security Office will be responsible for submitting PCI vulnerability reports to the merchant banks
65 in compliance with the PCI regulations in coordination with a campus PCI representative.

66 B. **Vulnerability Management**

67 1. Systems working with University high risk data or that serve mission-critical computing purposes must
68 be remediated and mitigation of any detected vulnerabilities will be either in accordance with the
69 Remediation and Mitigation standards below or must have a documented approved exception.

70 2. The priority of patching or mitigating vulnerabilities based on the severity level given in the scoring
71 process. Remediation must occur within the time frames specified below for each level of severity:

Severity	Remediation Time Frame
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Urgent	7 days
Critical	15 days
High	60 days
Medium	TBD
Low	TBD

72 2.

73 **Definitions**

74 2.A. **Vulnerabilities:** Threat to the system or digital environment caused by software errors which can be mitigated by
75 patching

76 2.B. **Vulnerability Management:** Remediation, mitigation, or acceptance associated risks of discovered vulnerabilities.

77 2.C. **Support Person:** This is the individual who is responsible for supporting/maintaining the device (workstations,
78 server, printer, etc.)

79 **Additional Contacts**

Subject	Contact	Phone	Email

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81 **Related Information**

82 Executive Memorandum 16

83 Executive Memorandum 26

84 ISO 27002

85 NIST-800-53

86 **History**

87 0.1 First draft created by Matt Morton

88 0.2 Edited by Matt Morton