

## 24-203 Windows Server Patching

### EXECUTIVE SUMMARY

Auditing & Advisory Services (A&AS) has completed an assurance engagement of Windows server patching. This engagement was performed at the request of the UTHealth Houston (UTHealth) Audit Committee and was conducted in accordance with the *International Standards for the Professional Practice of Internal Auditing*.

#### Background

Patches must be applied to Windows Server operating systems to ensure stability, performance, and protection against emerging threats and vulnerabilities. Patches are issued by Microsoft and implemented by Data Center Operations (DCO) and the School of Biomedical Informatics (SBMI) on a monthly schedule.

#### Objectives/Scope

Our objective was to determine whether controls around Windows Server patching are adequate and functioning as intended. Specifically, to determine if:

- Policies and procedures are in place.
- Change notifications for DCO patches are adequately documented.
- Patches are implemented within 30 (SBMI) or 60 days (DCO).
- Status reports are sent to respective DCO system administrators.
- DCO (weekly) and SBMI (monthly) reports are reviewed by responsible parties.
- DCO server inventory reports are sent on a monthly basis to the IT infrastructure team.
- DCO patches (including emergency patches) are reviewed during Change Board meetings.
- DCO patches are tested prior to implementation.
- SBMI patch alerts are configured in NinjaOne.

#### Scope Period

June 1, 2024 through November 30, 2024

#### Conclusion

Overall, controls around Windows Server patching are adequate and functioning as intended. We noted no observations during our procedures.

We would like to thank the DCO and SBMI staff and management who assisted us during the engagement.



---

Daniel G. Sherman, MBA, CPA, CIA  
Vice President & Chief Audit Officer

## 24-203 Windows Server Patching

### OBSERVATION RATINGS

<b>Priority</b>	An issue that, if not addressed timely, has a high probability to directly impact achievement of a strategic or important operational objective of UTHealth or the UT System as a whole.
<b>High</b>	An issue considered to have a medium to high probability of adverse effects to a significant office or business process or to UTHealth as a whole.
<b>Medium</b>	An issue considered to have a low to medium probability of adverse effects to an office or business process or to UTHealth as a whole.
<b>Low</b>	An issue considered to have minimal probability of adverse effects to an office or business process or to UTHealth as a whole.

### NUMBER OF PRIORITY OBSERVATIONS REPORTED TO UT SYSTEM

None

### MAPPING TO A&AS FY 2024 RISK ASSESSMENT

<b>Reference</b>	<b>Risk</b>
IT-28	Patches/upgrades not applied timely to data center servers/applications/desktops

### DATA ANALYTICS UTILIZED

Not applicable

### ENGAGEMENT TEAM

VP/CAO – Daniel G. Sherman, MBA, CPA, CIA

Supervisor – Brook Syers, CPA, CIA, CISA, CFE

Lead – Tammy Coble, CISA

### END OF FIELDWORK DATE

May 23, 2025

### ISSUE DATE

June 2, 2025

### REPORT DISTRIBUTION

Audit Committee

Ryan Bien

Mary Dickerson

Kevin Dillon

David Ha

Tony Murry

Ana Touchstone

Amar Yousif

Dr. Jiajie Zhang