



# Addressing Cyber Security Threats On-Campus

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## Abstract

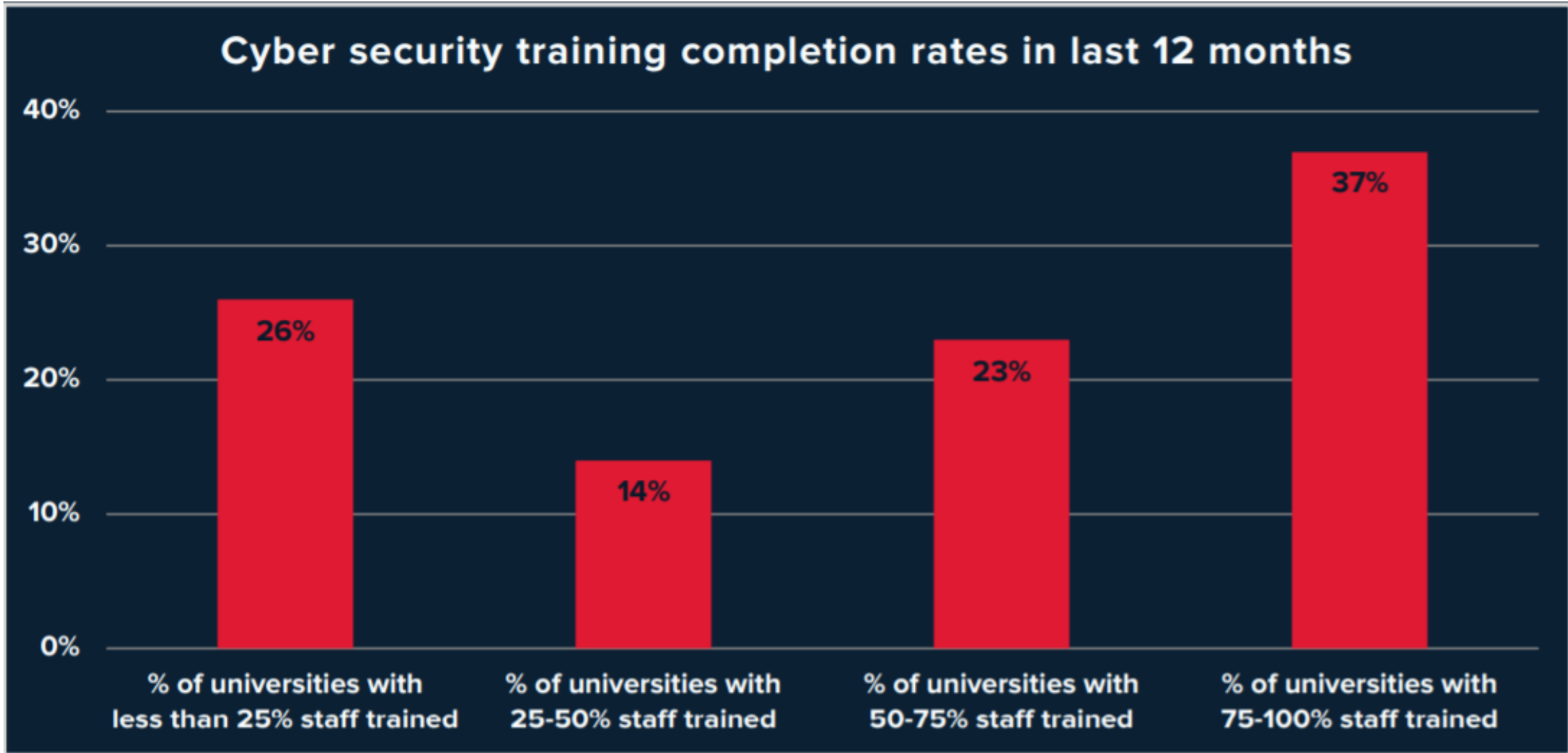
This recommendation report focuses on enhancing cyber security measures to protect the University at Buffalo (UB) campus community from potential cyber threats. Through a combination of research methods including secondary research, primary research, and stakeholder engagement, actionable insights and recommendations have been developed to strengthen the university's cyber security posture.

## Introduction

Cyber security threats pose significant risks to the UB campus community, necessitating proactive measures to mitigate potential risks. This report outlines findings from research conducted to identify existing cyber security measures, assess current threats, evaluate stakeholder perspectives, and benchmark against industry standards.

## Research Methods

1. This research combined existing studies with surveys and interviews of students, faculty, and staff.
2. Scholars' work, industry reports, and government publications informed cybersecurity threats and best practices.
3. Surveys and interviews explored university-specific challenges and potential solutions.

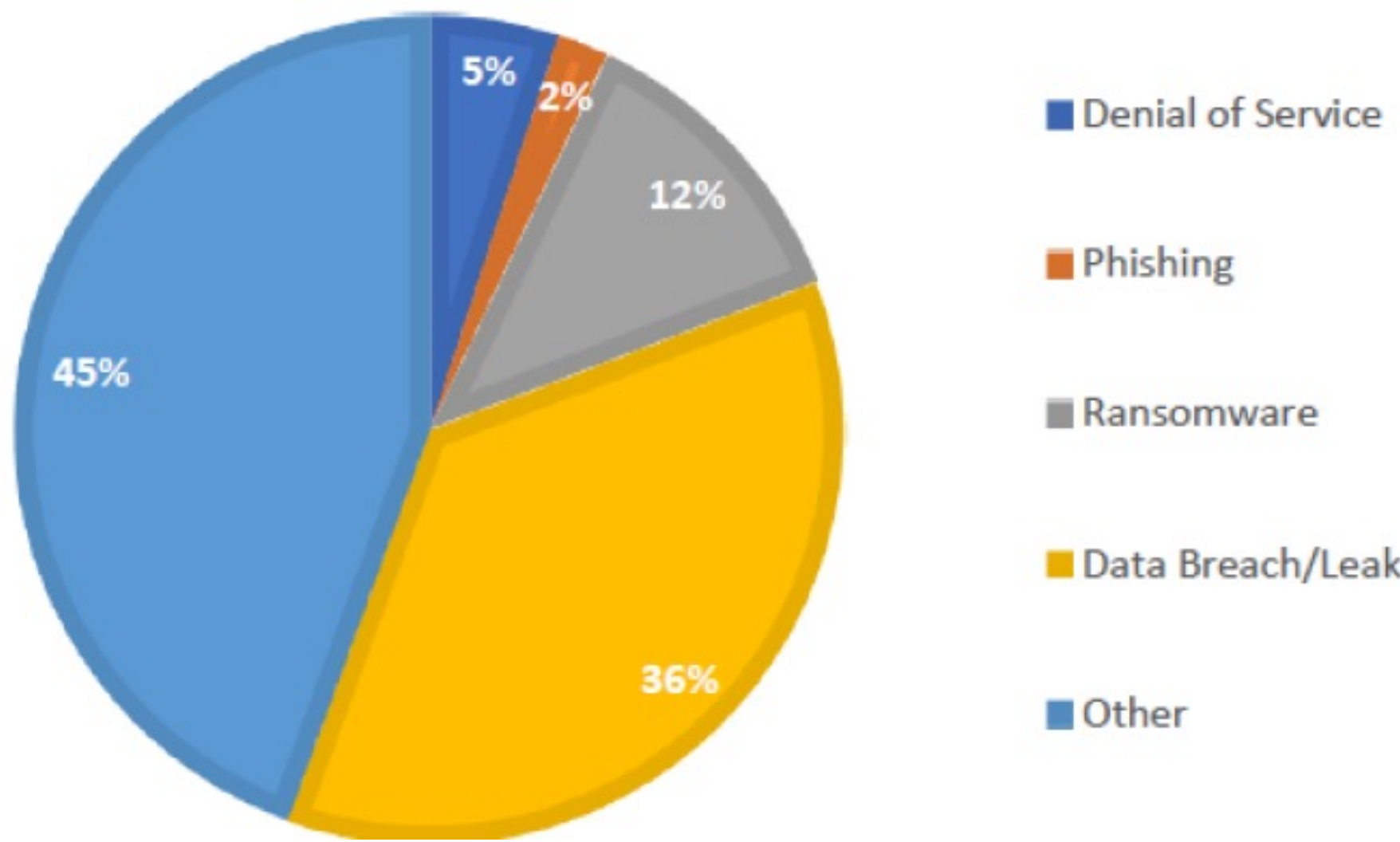


## Results

1. Identification of Existing Cyber Security Measures:
  - Over 1000 cybersecurity incidents in US K-12 schools since 2016.
2. Assessment of Current Cyber Security Threats:
  - Schools rank as the second most targeted sector for ransomware attacks.
  - Social engineering accounts for 41% of cybersecurity incidents in higher education.
3. Evaluation of Stakeholder Perspectives:
  - 27% of educational institutions see data center security as inadequate.
  - 42% of schools report breaches due to circumvention of cybersecurity measures.
4. Benchmarking Against Industry Standards:
  - Educational records can fetch up to \$265 on the black market

## Recommendations

1. Enhance Cyber Security Awareness and Education: Empower the campus community with knowledge to recognize and respond to cyber threats.
2. Strengthen Incident Response and Reporting Mechanisms: Streamline procedures for reporting incidents and ensure swift response protocols.
3. Implement Multi-Layered Cyber Defense Strategies: Deploy a comprehensive array of defenses to thwart diverse cyber threats effectively.
4. Foster Collaboration and Information Sharing: Facilitate cross-departmental cooperation to enhance overall cyber resilience.



## Conclusions

The University at Buffalo must adopt a comprehensive approach to address cyber security threats, guided by proactive measures and collaboration. By implementing the recommendations outlined in this report, UB can enhance its cyber security posture and safeguard the well-being of its campus community.

## References

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