

 <p>EASTERN MICHIGAN UNIVERSITY DIVISION of INFORMATION TECHNOLOGY</p>	Standard	
	Effective Date	Date of Last Revision
	7/12/2015	7/12/2015

Chapter Name	
Security	
Chapter Number	Title
8.15.S.1	Two-Factor Authentication for Server Access Control

1.0 Purpose

Security is a large concern at Eastern Michigan University. Compromised passwords for any user that has remote access to a server on campus is a significant security risk.

This standard specifies the situations where two-factor authentication is required for remote access of an EMU-network server.

2.0 Governing Policy	
Number/Document Name	Effective Date
8.15 Access Control	July 15, 2013

3.0 Standard

For I.T. managed servers:

All Windows and Linux servers on campus that are configured to allow remote access to the server’s native interface must have an EMU designated two-factor authentication method installed, configured, and operational. This includes any server that can be accessed by Remote Desktop Protocol (RDP) or by Secure Shell (SSH).

All IT employees who access servers using the above methods will need to enroll in this two-factor authentication method.

For Non-I.T. managed servers:

While this standard does not require enrollment in two-factor authentication for Non-IT users or servers at this time, it is recommended by IT for all users requiring remote access to EMU-networked systems.

4.0 Responsibility for Implementation

The Director of Network and Systems Services is responsible for implementation of this standard.

5.0 Definitions	
Term	Definition
Two-Factor Authentication	<p>Two-Factor authentication adds an additional layer of protection to EMU accounts and infrastructure. It requires that when you attempt to access a resource that you provide:</p> <ol style="list-style-type: none"> 1. Something you know: username and password 2. Something that you have: hardware token or mobile phone <p>By adding this second layer of authentication, we prevent the possibility of exploit of compromised passwords for all services using two-factor authentication services.</p>
Remote access	Any access to the server's desktop or terminal that is not conducted with a mouse and keyboard locally connected to the server or through a KVM
Server	Physical or virtual computer system delivering key services to EMU
KVM	Hardware device that allows a user to control multiple computers from one or more sets of keyboards, video monitors and mice.
Remote Desktop Protocol (RDP)	A protocol to allow remote access to Windows based servers.
Secure Shell (SSH)	A protocol to allow remote access to the command line of Unix-based operating systems.

6.0 Revision History	
Description	Approval Date
James Pringle and Allan Edwards	03/13/2015
IT Policy Committee – First Review	05/14/2015
IT Policy Committee – Approval	07/09/2015
CIO Approval	07/12/2015