

# NIST CSF 2.0-PR.AA-03-Ex1

PROTECT (PR): Safeguards to manage the organization's cybersecurity risks are used  
Identity Management, Authentication, and Access Control (PR.AA)

Access to physical and logical assets is limited to authorized users, services, and hardware and managed commensurate with the assessed risk of unauthorized access

## PR.AA-03

Users, services, and hardware are authenticated

## Ex1

Require multifactor authentication

## Compliance Framework References:

CCMv4.0: DCS-08

CCMv4.0: IAM-01

CCMv4.0: IAM-02

CCMv4.0: IAM-14

CCMv4.0: IAM-16

CCMv4.0: IVS-03

CCMv4.0: UEM-05

CCMv4.0: UEM-06

CCMv4.0: UEM-14

CRI Profile v2.0: PR.AA-03

CRI Profile v2.0: PR.AA-03.01

CRI Profile v2.0: PR.AA-03.02

CRI Profile v2.0: PR.AA-03.03

CSF v1.1: PR.AC-3

CSF v1.1: PR.AC-7

SP 800-218: PO.5.2

SP 800-53 Rev 5.1.1: AC-07

SP 800-53 Rev 5.1.1: AC-12

SP 800-53 Rev 5.1.1: IA-02

SP 800-53 Rev 5.1.1: IA-03

SP 800-53 Rev 5.1.1: IA-05

SP 800-53 Rev 5.1.1: IA-07

SP 800-53 Rev 5.1.1: IA-08

SP 800-53 Rev 5.1.1: IA-09

SP 800-53 Rev 5.1.1: IA-10

SP 800-53 Rev 5.1.1: IA-11

Vendor: Microsoft Azure

Comments: Enforcement of MFA requirements would have to be acquired via configuration review. However, reviewing MFA logs would provide evidence that the MFA policies are successfully in place.

## UDM Search Query:

```
$userLogin.metadata.event_type = "USER_LOGIN"  
($userLogin.security_result.description = "MFA completed in Azure AD" OR  
$userLogin.security_result.description = "MFA requirement satisfied by claim  
in the token")  
$userLogin.target.user.userid = $targetUser
```

```
match:  
    $targetUser
```

```
outcome:  
    $loginFromHosts = array_distinct($userLogin.principal.asset.hostname)  
    $mfaResult = array_distinct($userLogin.security_result.description)
```

```
order:  
    $targetUser
```

10-20-2024

hostname	destip	count
calm-orion-8112	207.3.50.185	7088
loud-blaze-4706	37.198.57.90	875
eager-glyph-3607	41.249.102.22	3152
tough-zephyr-6801	162.195.41.129	8183
keen-bear-2972	18.240.44.191	9823
warm-fox-0927	42.28.42.216	9220
lively-lion-7689	191.95.195.233	5858
calm-glyph-5246	178.93.96.212	8215
nifty-meteor-5590	112.40.225.248	4566
rich-ember-2213	129.112.53.246	1836

09-20-2024

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08-20-2024

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