(For Mac Users)

Microsoft Remote Desktop Application

for EDU's Azure Virtual Desktops Installation Instruction



Information Technology & Education Technology

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Document Change History

The following table is a record of changes to this document. Version numbers are in X.X format. The numeral to the left of the decimal point indicates a major revision, and the numeral to the right indicates a minor revision.

Major Revision: intent or process changed to such an extent that previous version is obsolete. Alternatively: 20 minor revisions are treated as a major revision (e.g., 1.18, 1.19, then 2.0).

Version	Date	Author / Editor	Document Owner	Change Description
1.0	20231026	Rafe Croce	Kelvin Freeman	Initial Draft
1.1	20231030	Gary Montgomery	Kelvin Freeman	Put into Template. Technical Writer Review.

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1. INTRODUCTION

This document is for Mac users. It provides step-by-step instructions and illustrations for downloading the Microsoft Remote Desktop application and, if necessary, troubleshooting installation.

2. PREREQUISITES

a. Ensure that you have all necessary DoD certificates installed on your Mac. To check, select the **search icon** (top-right corner of screen), and search for "Keychain Access."



b. Once Keychain Access opens, select login. Then, select the Certificates tab.

•••	Keychain Access			
Default Keychains	All Items Passwords Secure Notes My Certificates Keys Certificates			
🗗 login				
🗗 Local Items	Confinite Intermediate certificate authority			
	Expires: wednesday, January 20, 2027 at 9:56-37 AM Eastern Standard Time			
0.0000				
Joystein				
System Roots	Name	~ Kind	Expires Keycha	in
	DOD DERILITY CA-1	certificate	Jan 20, 2027 at 9:55:37 login	
	📴 DOD EMAIL CA-59	certificate	Apr 2, 2025 at 9:37:25 AM login	
	DOD EMAIL CA-62	certificate	Jun 9, 2027 at 9:51:38 AM login	
	DOD EMAIL CA-63	certificate	Jun 2, 2027 at 10:02:21 AM login	
	DOD EMAIL CA-64	certificate	Jun 2, 2027 at 10:05:19 AM login	
	DOD EMAIL CA-65	certificate	Jun 9, 2027 at 9:55:26 AM login	
	DOD EMAIL CA-70	certificate	May 15, 2029 at 11:51:56 login	
	DOD EMAIL CA-71	certificate	Dec 6, 2028 at 12:10:24 login	
	DOD EMAIL CA-72	certificate	May 15, 2029 at 11:54:35 login	
	DOD EMAIL CA-73	certificate	May 15, 2029 at 11:58:04 login	
	DOD ID CA-59	certificate	Apr 2, 2025 at 9:38:32 AM login	
	DOD ID CA-62	certificate	Jun 2, 2027 at 10:07:31 AM login	
	DOD ID CA-63	certificate	Apr 7, 2027 at 9:55:54 AM login	
	DOD ID CA-64	certificate	Jun 2, 2027 at 10:09:37 login	
	DOD ID CA-65	certificate	Jun 2, 2027 at 10:11:23 AM login	
	DOD ID CA-70	certificate	May 15, 2029 at 12:00:08 login	
	DOD ID CA-71	certificate	Dec 6, 2028 at 12:12:15 PM login	
	DOD ID CA-72	certificate	May 15, 2029 at 12:02:26 login	
	DOD ID CA-73	certificate	May 15, 2029 at 12:03:49 login	
	DoD Root CA 3	certificate	Dec 30, 2029 at 1:46:41 login	
	DoD Root CA 4	certificate	Jul 25, 2032 at 3:48:23 PM login	
	DoD Root CA 5	certificate	Jun 14, 2041 at 1:17:27 PM login	
	DoD Root CA 6	certificate	Jan 24, 2053 at 11:36:17 login	
	DOD SW CA-60	certificate	Apr 2, 2025 at 9:34:49 AM login	
	DOD SW CA-61	certificate	Mar 31, 2025 at 9:41:24 login	
	DOD SW CA-66	certificate	Jun 9, 2027 at 9:57:18 AM login	
	DOD SW CA-67	certificate	Jun 9, 2027 at 9:58:25 AM login	
	DOD SW CA-68	certificate	Jul 19, 2027 at 9:56:48 AM login	
	DOD SW CA-69	certificate	Jul 19, 2027 at 9:59:26 AM login	
	DOD SW CA-74	certificate	May 15, 2029 at 12:05:29 login	
	DOD SW CA-/6	certificate	Dec 6, 2028 at 12:13:49 login	
	DOD SW CA-76	certificate	May 14, 2029 at 11:44:56 login	
	DOD SW CA-77	certificate	May 14, 2029 at 11:48:18 login	

You need to make sure that your Mac is reading your comman access card (CAC)/Smart card. Select the **Apple icon**, and then select **About this Mac**.



c. A new window will appear. Select System Report.



d. A new window will appear. On the left side, navigate to Software. Expand the Software tree, and then select SmartCards. If your Mac is reading your CAC/Smart card, your screen should look like the screenshot below. If your Mac is NOT reading your CAC/Smart card, the com.apple.pivtoken: field will be empty.

	MacBook Air		
 Hardware ATA 	Readers:		
Apple Pay	#01: Alcor Micro AU9680 (ATR:[length = 16, bytes = 0x3b/918000000534345372003002046])		
Bluetooth	Reader Drivers:		
Camera Card Reader	#01- orp.debia.alioth.pcscilite.smartcardccid-1.4.37 //usr/libeveciSmartCardSarvices/ifrid=ccid bundie)		
Controller			
Diagnostics Disc Burning	- SmarrCurr Univers		
Ethernet Cards	#01: com.apple.CryptoTokenKit.pirtoken:1.0 (System(Library)Frameworks/CryptoTokenKit.framework/Plugins/pirtoken.appex)		
FireWire	Available SmartCards (keychain):		
Graphics/Displays Memory	com.apple.setoken:		
NVMExpress	com.apple.setoken:aks:		
Parallel SCSI	com.apple.pivtoken:4D13FCCE36FF47449C9737DA3764CAB2:		
Power Printers	#01: Kind: private RSA 2048-bit, Certificate: (length = 20, bytes = 0x3a807add2b74276dd55d3cf5f456f72fa88e50d), Usage: Sign		
SAS	Valid from: 2023-08-22 00:0:30 +0000 fo: 2025-03-19 23:58-59 +0000, SSL trust: NO, X509 trust: YES		
SATA SPI	BGNICERTIFICATE MIBarCCASPOAN/RADIOLEIMAGGCSaGSIb3DOERC+UJAMF0xCrAJBarVBAYTAVTMPawFaYDVDOKFw9VLIMalEdvienVybm1bn0xDDAKBarVPAxTAGB-RDEMMA-6A1UFC-MDUFLIMBavFaYDVQODFw9ETD0a		
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Software	REDRCUISS.JDQVISZMBJZXMAYTKAYBBQUHAAG9F0hdHA6Ly6Y3YMLInRo2c2LWHBMBGATUGCQQUMBMcAYtKAYBBQUHCQQ2BBMCVYMAHHYDVR0IBBgwFgYKMYBBQUHAAQGCIsGAQQBgloKAwwwD QYMsZImeVAAGLBQAggBEAAdBIBYKEUTAJZZhcLaymDFTUrigEtaKfYKzUggb0DHH665BQVMZZXWMIBHJXMIKBd369bgVfistffLII/		
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Applications Developer	eND CERTIFICATE		
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Frameworks	wiestow centrestowerse in the second se		
Language & Region	gsLuggloteingUmHightingWinDawmichwingWinDaweichwingUm2cbayent0109/wjcarszchakobayent0		
Legacy Software Logs	BD1tatIPV++K6n-0Vo/I7AcvirA0YmtDD13m+ngL+W0d4RE1+ngyNBhDUB+zyv2q8839XrQNBtrK3vy9EgV065zscCK1fs3bPADOvicRV6WtDpVuhmdEJ2DSoBNUz3Ar4qLhaQtavOAJ7I+f 7951ZaApBFBvicEhrisBi03-3xNAM0555tu06WjWDpVsuzzz3VX5Ng270md5Ff		
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Sync Services	END CERTIFICATE		
	I Rafe's MacBook Air - Software - SmartCards		

If your Mac does **NOT** have the **required** prerequisites, seek assistance from the MCU Helpdesk or the link below.

MCU Helpdesk Contact Information

- Email: MCUHelpdesk@usmcu.edu
- Location: 2044 South Street, Warner Hall, 3rd Deck, Room 3178
- Phone Number: (703) 432-4866

MilitaryCAC Mac Install Checklist: https://militarycac.com/macnotes.htm

3. INSTALLATION

a. Use the link below to download the Microsoft Remote Desktop app from the AppStore.

https://apps.apple.com/us/app/microsoft-remote-desktop/id1295203466?mt=12

b. Install the application. Once the application finishes installing, select **Open**.



c. When the application opens, select the **+** icon, and then select Add Workspace.



d. A new window will appear. Copy and paste the uniform resource locator (URL) below into the **Add Workspace** window, and then select **Add**.

URL:	https:/	/rdweb.wvd	.microsoft.com
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Microsoft Remote Desktop		
Add Workspace Intps://rdweb.wvd.microsoft.com A workspace is associated with this URL. Workspace URL: Intps://rdweb.wvd.microsoft.com //red/wrdwebsowry Links to remote apps, PCs and files will be downloaded and automatically update (I you add the workspace. Privacy settings for managed resources are preset by your organization. Learner more about privacy settings. Cancel Add] Inection	

e. A new window will appear, prompting you to sign in. Enter **your EDU email address**, and then click **Next**.

	Microsoft Remote Desktop
	Microsoft Sign in
	rafe.croce.ctr@usmcu.edu
C¢ W	Next
©2023 Microsoft	: Privacy statement

f. Select your CAC certificate, enter your CAC personal identification number (PIN), and click OK.



g. After signing in, your workspace will appear. To access your virtual desktop, under **MCU-EDU-PROD-AVD**, double-click **the computer icon**. You will automatically sign in to the virtual desktop.



APPENDIX A REFERENCES

Title or Description	Date	Location
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

APPENDIX B ACRONYMS, ABBREVIATIONS, AND DEFINITIONS

Term	Definition		
CAC	Common Access Card		
MCU	Marine Corps University		
PIN	Personal Identification Number		
URL	Uniform Resource Locator		