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# RAAS Client1

ٻن حصن تي ٺهيل آهي RAAS Client ۽ RAAS Server. سرورز، يا هوسٽ ڪمپيوٽرن کي ڪنٽرول ڪرڻ لاءِ، RAAS Server ڪلائنٽ سائڊ تي هوسٽ ڪمپيوٽرن کي ترتيب ڏيڻ کان اڳ هوسٽ ڪمپيوٽرن تي انسٽال ڪرڻ جي ضرورت آهي RAAS Client ايپليڪيشنون. هن حصي ۾ انسٽال ڪرڻ، ترتيب ڏيڻ ۽ استعمال ڪرڻ لاءِ هدايتون شامل آهن RAAS Client.

## 1.1 تنصيب

RAAS Client فائل ڊائون لوڊ ڪري ۽ ان کي RAASClient\_[version]\_x64.msi تارگيٽ ڪمپيوٽر تي هلائڻ سان انسٽال ڪري سگهجي ٿو. جيڪڏهن ڊفالت انسٽاليشن ڪافي آهي ته صرف لائسنس جي معاهدي کي قبول ڪرڻ ۽ انسٽال ڪي ڊپائن جي ضرورت آهي.

سسٽم گهرجون: ونڊوز 10 ۽ 11 پرو ۽ انٽرپرائز جي 64 بت ورجن کي سپورٽ ڪري ٿو. NET. فريم ورڪ 4.8 جي ضرورت آهي.

### 1.1.1 اعليٰ سيٽنگون

جيڪڏهن ڊفالت انسٽاليشن ڪافي نه آهي، ته انسٽال ڪرڻ وقت "ايڊوانسڊ" بٽن تي ڪلڪ ڪري ان کي ترتيب ڏئي سگهجي ٿو. پهرين حصي ۾ مشين ليول تي ان کي انسٽال ڪرڻ جا

آپشن شامل آهن، جيڪي سڀني استعمال ڪندڙن لاءِ دستياب هوندا، يا استعمال ڪندڙ ليول، جيڪو صرف موجوده استعمال ڪندڙ لاءِ دستياب هوندو. "اڳيون" تي ڪلڪ ڪرڻ سان استعمال ڪندڙ کي فيچرز مينيو ۾ آڻيندو. هن حصي ۾ اهو چونڊڻ ممڪن آهي ته انٽرفيس ۾ فيچرز کي فعال يا غير فعال ڪندي ڪهڙيون فيچرز انسٽال ڪرڻيون آهن. فيچر جي تفصيل باڪس جي هيٺان پيش ڪئي وئي آهي جنهن ۾ ڪنٽرول شامل آهن جڏهن ان کي چونڊيو ويندو آهي.

صلاح: RAAS Client ان جي نوٽيفڪيشن آئڪن تي ساڃي ڪلڪ ڪري هلائي سگهجي ٿو. ٽاسڪ بار ۾ نوٽيفڪيشن آئڪن کي هميشه ڏيکارڻ لاءِ، ٽاسڪ بار ۾ لڪيل آئڪن ڏيکاريو تي ڪلڪ ڪريو ۽ چڪيو RAAS Client آئڪن کان نظر ايندڙ آئڪن واري علائقي ڏانهن.

## RAAS Server Configuration1.2

RAAS Server Configuration فائل ايڪسپلورر ۾ سرور تي ساڃي ڪلڪ ڪري ۽ "RAAS Server Configuration" يا ساڃي ڪلڪ ڪندي RAAS Client سسٽم ٽري ۾ آئڪن ۽ يا ته "RAAS Server Configuration" روت مينيو ۾ يا سرور مينيو مان هڪ ۾. اهو سيٽنگون ترتيب ڏيڻ لاءِ استعمال ڪيو ويندو آهي جيڪي هر سرور لاءِ لاڳو ٿيڻ گهرجن.

- ڪنهن خاص سرور لاءِ ترتيب تبديل ڪرڻ لاءِ، سرور لسٽ باڪس ذريعي چونڊي سگهجن ٿا.
  - سرور شامل ڪرڻ لاءِ "شامل ڪريو..." بٽن تي ڪلڪ ڪريو، ان کان پوءِ سرور جو نالو يا سرور آئي پي داخل ڪريو ۽ "شامل ڪريو" بٽن تي ڪلڪ ڪريو.
  - سرور کي هٽائڻ لاءِ، هٽائڻ لاءِ سرور چونڊيو ۽ "هٽايو" بٽن تي ڪلڪ ڪريو.
- ترتيب ٽيب ۾ ترتيب ڏنل آهي، ۽ هر ٽيب هيٺ موجود سيٽنگون هيٺين حصن ۾ پيش ڪيون ويون آهن.

### 1.2.1 جنرل

- **سرور کي فعال ڪريو:** سرور کي فعال بڻائي ٿو ۽ سڀني سرور سيٽنگون لاڳو ڪري ٿو. سرور کي فعال تي سيٽ نه ڪيو وڃي جيستائين سڀئي سيٽنگون ترتيب نه ڏنيون وڃن.

سيٽنگون:

- **عرف:** اهو طئي ڪري ٿو ته سرور کي سڀني ۾ ڪهڙو عرف هجڻ گهرجي RAAS Client انٽرفيس.
- **اڪائونٽ:** سرور سان رابطي لاءِ استعمال ٿيندڙ ونڊوز اڪائونٽ جو تعين ڪري ٿو.
- **Password:** Determines the password to the windows account to use for communication with the server.
- **Domain:** Determines the domain for the windows account to use for communication with the server.

- **RDP authentication:** Determines which authentication rules to use when connecting through RemoteApp to the .server, using the RDP protocol
- **Auto reconnect:** Determines if RemoteApp should be reconnected to automatically if it was connected to before .lock, sleep or hibernate etc
- **Autostart startup programs:** Determines if applications which are configured to start automatically during startup on the server should start automatically through .RemoteApp when first connecting
- **Keep alive agent:** Determines if a keep alive agent should be started through RemoteApp on the server when first connecting, to prevent the connection from automatically .disconnecting when no applications are opened
- **Redirect clipboard:** Determines if clipboard redirection .should be on or off
- **Redirect devices:** Determines if devices should be redirected. This option requires additional settings to be .active, which are documented by Microsoft
- **Redirect printers:** Determines if printer redirection .should be on or off
- **Show notifications:** Determines if the user should receive a balloon tip notification when connecting or disconnecting RemoteApp. Notifications need to be .activated in Windows settings for notification to work

:Connection RAAS Server

- **Status:** Displays information about the server's current communication status. "No contact" indicates that no communication is present, "Contact" indicates that the server is reachable, "Available" indicates that communication with the RAAS Server service on the server is present and "Connected", which indicates that the .server is connected to through RemoteApp
- **version:** This information is only present if **RAAS Server** communication with the RAAS Server service on the server is present, and indicates the installed version of .RAAS Server on the server
- **Connect/Reconnect-button:** Used to connect or reconnect .to the server through RemoteApp
- **Disconnect-button:** Used to disconnect the server from .RemoteApp

## Remote Shortcuts 1.2.2

**Enable remote shortcuts:** Makes remote shortcuts active •  
.and applies all remote shortcuts settings

:Remote Shortcuts Settings

**Create start-menu shortcuts:** Determines if start-menu •  
shortcuts on the server should be transferred to the  
current user of the local computer, to be started through  
RemoteApp. Shortcuts will be placed in a dedicated folder  
.in the start-menu with the name format [Server alias]

**Create Windows Apps shortcuts:** Determines if Windows •  
Apps shortcuts on the server should be transferred to the  
current user of the local computer, to be started through  
RemoteApp. Shortcuts will be placed in a dedicated folder  
in the start-menu with the name format [Server alias]. For  
Windows Apps shortcuts to be transferred after an  
installation Update Shortcuts need to be chosen for the  
.server from the RAAS Client notification area

**Create desktop shortcuts:** Determines if desktop •  
shortcuts on the server should be transferred to the  
current user of the local computer, to be started through  
.RemoteApp

**Place desktop shortcuts on desktop root:** Determines if •  
transferred desktop shortcuts from the server should be  
placed on desktop root of the current user. The alternative  
is to place them in a dedicated folder on the desktop with  
.the name format [Server alias]

**Append server alias to shortcut names:** Determines if •  
shortcuts that are transferred from the server should be  
.given names that are appended by the server alias

**Server language for shortcut names:** Determines if •  
shortcuts that are transferred from the server should be  
given names according to the installed language on the  
.server

## Visualizations 1.2.3

**Enable visualizations:** Makes visualizations active and •  
.applies all visualizations settings

:Visualizations Settings

**Main color:** Determines the main color to use for all •  
.visualizations

- **Text color:** Determines the color of text used for all .visualizations
- **Line color:** Determines the color of lines used for all .visualizations
- **Frames:** Determines if RemoteApp windows for applications on the server should have a frame decorization. The frames can be used to indicate to the .user which applications belong to the server
- **Connection bar:** Determines if a connection bar should be present when a RemoteApp window for an application on the server is active. The connection bar can be used to indicate that an application on the server is receiving .input
- **Connection bar opacity:** If "Connection bar" is set, this .setting determines the opacity of the connection bar

## File Explorer Extension 1.2.4

- **Enable in File explorer extension:** Makes the server visible in the RAAS Client File explorer extension and applies all effective RAAS Client File explorer extension .settings

Visible Folders: Use these options to determine which user folders .that should be visible for the server in the File explorer extension

Visible Devices and Drives: Use these options to determine which types of devices and drives that should be visible for the server in .the File explorer extension

## RAAS Client 1.3

The RAAS Client application is reached through its system tray icon.

When right-clicking the icon in system tray a context menu will appear. The menu items of this context menu will be described in .this section

- **Remote Desktop:** Opens the RAAS Client Remote" . "Desktop application, with no server selected
- **Opens the RAAS Server" :RAAS Server Configuration** . "Configuration application, with no server selected
- **.Help (pdf):** Opens a pdf with help concerning RAAS
- **About:** Opens a window with information about the .RAAS Client installed
- **.RAAS Client Exit:** Closes

The context menu contains one sub menu for each enabled server. A red circle before the server name indicates that the server is offline, a yellow circle before the server name indicates that the server is available and a green circle before the server name indicates that a connection through RemoteApp to the server exist

:Server sub context menu

- Connect:** Creates a connection to the server through RemoteApp •
- .Disconnect:** Disconnects the server from RemoteApp •
- Reconnect:** Reconnects the RemoteApp connection to the server •
- .Loggoff:** Logs out all logged in users from the server •
- .Reboot:** Reboots the server •
- Update Shortcuts:** Updates all remote shortcuts from server. This action is required when installing Windows Apps shortcuts •
- Remote Desktop:** Opens the "RAAS Client Remote Desktop" application with the server selected •
- Opens the "RAAS Server :**RAAS Server Configuration** Configuration" application with the server selected •

## File Explorer RAAS Client 1.4 Extension

If shell namespace extension is installed for ,RAAS Client there will be a section in File explorer called "RAAS Client" in the treeview of File explorer root level. This section can be used to handle files and folders for each server which has File explorer extension active in settings. It is designed to function just as normal handling of files and filders in File Explorer, with some additional options which are described in this section

:Right-clicking a server

- Remote Desktop:** Opens the RAAS Client Remote" "Desktop application with the server selected •
- Opens the "RAAS Server :**RAAS Server Configuration** Configuration" application with the server selected •

:Right-clicking a file

- Open on remote host:** Opens the file on the remote host through RemoteApp •

**Create remote shortcut:** Creates a shortcut which starts •  
the file on the server through RemoteApp when activated.  
.The file is created in the current folder

Right-clicking a file and dragging it to another location before  
:release

**Create remote shortcut here:** Creates a shortcut which •  
starts the file on the server through RemoteApp when  
activated. The file is created in the location which the file  
.was dragged to

## RAAS Client Remote Desktop 1.5

can be started by right-clicking a "RAAS Client Remote Desktop"  
server in the File explorer extension and choosing "Remote  
Desktop" or by right-clicking the RAAS Client icon in system tray and  
either choosing "Remote Desktop" in the root menu or in one of the  
server menus. It is used to connect to a server with remote desktop  
RAAS using the stored credentials, which can be configured using  
.Server Configuration

**Server:** Choose the server to connect to using remote •  
.desktop

:Settings

**RDP authentication:** Determines which authentication •  
rules to use when connecting through remote desktop to  
.the server, using the RDP protocol

**Redirect clipboard:** Determines if clipboard redirection •  
.should be on or off

**Redirect devices:** Determines if devices should be •  
redirected. This option requires additional settings to be  
.active, which are documented by Microsoft

**Redirect printers:** Determines if printer redirection •  
.should be on or off

**Fullscreen:** Determines if remote desktop should be •  
.started in fullscreen mode

**Connection bar:** Determines if a connection bar should be •  
.present in fullscreen mode

**Pin connection bar:** Determines if the connection bar •  
.should be pinned initially

**Desktop width:** Determines the desktop width for the •  
.remote desktop session



**Desktop height:** Determines the desktop height for the •  
.remote desktop session

## Search & Run 1.6

provides an easy way to search for installed Search & Run applications on the server and then run the applications. It is installed on the server but is intended to be used as a RemoteApp application through RAAS Client on the client computer. It functions as a replacement for Windows search, which is not accessible through RAAS Client. Searching for files is performed by looking for files which begin with the provided string in the search field. "\*" in the string matches any string and "?" in the string matches any .character

## RAAS Server 2

In order to control servers, or host computers, through RAAS .Client , RAAS Server needs to be installed on the host computers

### Installation 2.1

is installed by downloading RAAS Server RAASServer\_[version]\_x64.msi to a server, or host computer, and opening the file. If default installation is sufficient the only actions which need to be taken is accepting the licence agreement and .hitting install

In order use RAAS Server from a RAAS Client computer, you need to login once through the desktop interface once the program is installed with the user you wish to control the server with through .RemoteApp

System requirements: Supports 64 bit versions of Windows 10 & 11 Pro and Enterprise as well as Windows Server RDS. .NET .Framework 4.8 and .NET 8 are both needed

### Advanced settings 2.1.1

If default installation is inadequate, it can be customized by clicking the "Advanced" button when installing. In this section it is possible to choose which features to install by enabling or disabling features in the interface. Details of a feature is presented underneath the box .containing the controls when selecting it

If installed on Windows Server for RDS access it is •  
recommended to disable the ability to reboot the server



from the RDS clients. This can be configured by clicking the "Advanced" button on the installation and selecting "Entire feature will be unavailable" for the feature named .""Can Reboot

## Recommended Windows 2.2 configuration

- It is recommended to allow password protected authentication to the computer shares on the server to allow access through the RAAS Client File explorer extension on the client computer. Documentation to provide password protected authentication to the computer shares on the server is documented by .Microsoft
- It is recommended to disable User Account Control, UAC, on the server to be able to install programs on the server through RAAS Client RemoteApp. User Account Control and privilege escalation are not supported by RAAS Client RemoteApp. Documentation to .disable User Account Control is provided by Microsoft
- Remote desktop connections need to be allowed on the .RAAS Client server for Microsoft RemoteApp to work with
- communicates with RAAS Server through port RAAS Client 43000, this port need to be allowed through firewalls. An entry in Windows firewall is automatically created on .RAAS Server installation of
- An initial connect to the server with the user you wish to control the server with through RemoteApp is required for .shortcuts to be created
- If used with connection bar from RAAS Client, it is recommended to disable the Multi-tasking setting "Show snap layouts when I drag a window to the top of my screen", which is accessible in Windows system settings. That function comes in conflict with the RAAS Client connection bar when used simultaneously. Changing this will make the remote applications run more .smoothly

## Search & Run 2.3

provides an easy way to search for installed Search & Run applications on the server and then run the applications. It is installed on the server but is intended to be used as a RemoteApp

application through RAAS Client on the client computer. It functions as a replacement for Windows search, which is not accessible RAAS Client. Searching for files is performed by looking for files which begin with the provided string in the search field. "\*" in the string matches any string and "?" in the string matches any character

## Versioning 3

New versions of RAAS Client and RAAS Server should be published at the same time with the same version number corresponding to the version tag in GitHub. RAAS Client and RAAS Server should be compatible as long as the major version number is the same i.e. the first of the numbers in the file names

## Support 4

### Common issues 4.1

File explorer may take longer time to start due to network locations being automatically added to quick access by Windows. In that case the problem will occur if the network location is unreachable

To resolve: Change open location for File explorer setting •  
."from "Home" to "This PC