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RAAS Client1

ئىككى تەركىبىنى ئاساس قىلغان RAAS Client ۋە RAAS Server. مۇلازىمەتلىرىنى كونترول قىلىش ياكى كومپيۇتېرنى باشقۇرۇش ئۈچۈن ، RAAS Server باش ئاپپارات كومپيۇتېرنى خېرىدارلار تەرەپتە تەكشۈرۈش ئۈچۈن ، ئورنىتىش كېرەك RAAS Client قوللىنىشچان پروگراممىلار. بۇ بۆلەكتە قاچىلاش ، تەكشۈرۈش ۋە ئىشلىتىش ھەققىدىكى كۆرسەتمىلەر بار RAAS Client.

1.1 قاچىلاش

RAAS Client ھۆججەتنى چۈشۈرۈپ نىشان x64.msi_ [نەشرى] RAASClient_ كومپيۇتېردا ئىجرا قىلىش ئارقىلىق قاچىلىغىلى بولىدۇ. ئەگەر سۈكۈتتىكى قاچىلاش يېتەرلىك بولسا ، قىلىشقا تېگىشلىك بىردىنبىر ھەرىكەت ئىجازەت كېلىشىمىنى قوبۇل قىلىش ۋە قاچىلاشنى ئۇرۇش.

سىستېما تەلپى: Windows 10 & 11 Pro ۋە كارخانىنىڭ 64 بىتلىق نۇسخىسىنى قوللايدۇ. NET Framework 4.8 لازىم.

1.1.1 ئىلغار تەكشۈرۈلەر

ئەگەر سۈكۈتتىكى ئورنىتىش يېتەرلىك بولمىسا ، قاچىلىغاندا «ئىلغار» كۇنۇپكىسىنى بېسىش ئارقىلىق ئۇنى خاسلاشتۇرغىلى بولىدۇ. بىرىنچى بۆلۈمدە

ئۇنى ماشىنا سەۋىيىسىگە ئورنىتىشنىڭ تاللاشلىرى بار بولۇپ ، بارلىق ئىشلەتكۈچىلەر ياكى ئىشلەتكۈچى سەۋىيىسىگە ئېرىشەلەيدۇ ، بۇ پەقەت نۆۋەتتىكى ئىشلەتكۈچىگىلا ئېرىشەلەيدۇ. «كېيىنكى» نى چەكسىز ، ئىشلەتكۈچى ئىقتىدار تىزىملىكىگە ئېلىپ كېلىدۇ. بۇ بۆلەكتە كۆرۈنمە يۈزىدىكى ئىقتىدارلارنى قوزغىتىش ياكى چەكلەش ئارقىلىق قايسى ئىقتىدارلارنى ئورنىتىشنى تاللىغىلى بولىدۇ. بىر ئىقتىدارنىڭ تەپسىلاتلىرى ئۇنى تاللىغاندا كونترولنى ئۆز ئىچىگە ئالغان رامكىنىڭ ئاستىدا كۆرسىتىلىدۇ.

مەسلىھەت: RAAS Client ئۇنىڭ ئۇقتۇرۇش سىنبەلگىسىنى ئوڭ چېكىش ئارقىلىق مەشغۇلات قىلغىلى بولىدۇ. ۋەزىپە ئىستونىدىكى ئۇقتۇرۇش سىنبەلگىسىنى ھەمىشە كۆرسىتىش ئۈچۈن ، ۋەزىپە بالىقىدىكى يوشۇرۇن سىنبەلگىلەرنى كۆرسىتىش ۋە سۆرەپ چېكىڭ RAAS Client سىنبەلگە كۆرۈنگەن سىنبەلگە رايونى.

RAAS Server Configuration1.2

RAAS Server Configuration ھۆججەت تىزىملىكىدىكى مۇلازىمەتلىرىنى ئوڭ چېكىپ تاللاش ئارقىلىق باشلاش تىزىملىكىدىن باشلىغىلى بولىدۇ. "RAAS Server Configuration" ياكى ئوڭ تەرەپنى چېكىش ئارقىلىق RAAS Client سىستېما تەخسىسىدىكى سىنبەلگە ۋە ياكى تاللاش "RAAS Server Configuration" يىلتىز تىزىملىكىدە ياكى مۇلازىمەتلىرى تىزىملىكىلىرىنىڭ بىرىدە. ئۇ ھەر بىر مۇلازىمەتلىرىغا ماس كېلىدىغان تەكشۈرۈش كەرنى تەكشۈرۈشكە ئىشلىتىلىدۇ.

- مۇلازىمەتلىرى تىزىملىك تىزىملىكى ئارقىلىق تاللىغىلى بولىدۇ ، مەلۇم مۇلازىمەتلىرىنىڭ سەپلىمىسىنى ئۆزگەرتكىلى بولىدۇ.
- مۇلازىمەتلىرىنى قوشۇش ئۈچۈن «قوشۇش ...» كۇنۇپكىسىنى بېسىڭ ، ئاندىن مۇلازىمەتلىرى ئىسمى ياكى مۇلازىمەتلىرى ip نى قىستۇرۇپ «قوشۇش» كۇنۇپكىسىنى بېسىڭ.
- مۇلازىمەتلىرىنى ئۆچۈرۈش ئۈچۈن مۇلازىمەتلىرى تاللاڭ ۋە «ئۆچۈرۈش» كۇنۇپكىسىنى بېسىڭ.

سەپلىمە بەتكۈچكە ئورۇنلاشتۇرۇلغان بولۇپ ، ھەر بىر بەتكۈچنىڭ ئاستىدىكى تەكشۈرۈش كەرنى كېيىنكى بۆلەكلەردە كۆرسىتىلدى.

1.2.1 General

- **مۇلازىمەتلىرىنى قوزغىتىش** : مۇلازىمەتلىرىنى ئاكتىپلاشتۇرىدۇ ۋە بارلىق مۇلازىمەتلىرى تەكشۈرۈش كەرنى قوللىنىدۇ. بارلىق تەكشۈرۈش كەرنى تەكشۈرۈش كەرنى مۇلازىمەتلىرىنى ئاكتىپلاشتۇرماسلىق كېرەك.

تەكشۈرۈش كەرنى:

- **ئالپاس** : مۇلازىمەتلىرىدا قايسى ئىسمىنىڭ بولۇشى كېرەكلىكىنى بەلگىلەيدۇ interfaces.RAAS Client
- **ھېسابات** : مۇلازىمەتلىرى بىلەن ئالاقە قىلىشقا ئىشلىتىدىغان Windows ھېساباتىنى بەلگىلەيدۇ.

- **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 though 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 servers 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
- **RAAS Server Configuration:** Opens the RAAS Server" : "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
- **Exit:** Closes .RAAS Client

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 Extension RAAS Client 1.4

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 folders 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 server "RAAS Client Remote Desktop"
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 using the stored
.RAAS Server Configuration credentials, which can be configured using

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

:Settings

RDP authentication: Determines which authentication rules to •
use when connecting though 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

Dektop 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 applications Search & Run 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 RAASServer_[version]_x64.msi RAAS Server 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 server •
.RAAS Client 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 installation
.RAAS Server 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 applications Search & Run
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"