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# 1 RAAS Client

Ewubere RAAS na akụkụ abụọ: RAAS Client na RAAS Server. Iji jikwaa sava ma ọ bụ kọmputa, RAAS Server kwesiri ka arunyere na ndi ọbia kọmputa tupu configuring ndi ọbia kọmputa na ndi ahia n'akukụ iji RAAS Client ngwa. Akukụ a nwere ntuziaka maka iwunye, ihazi na iji RAAS Client.

## 1.1 Ntinye

RAAS Client nwere ike arunyere site nbudata na RAASClient\_[mbipute]\_x64.msi failu na-emezu ya na lekwasiri kọmputa. O buru na nranye ndabara zuru oke naanị omume a ga-eme bu inakwere nkwekọrta ikike wee pia wunye.

Sistemụ choro: Na-akwado udi 64 bit nke Windows 10 & 11 Pro na Enterprise. NET Framework 4.8 choro.

### 1.1.1 Ntọala di elu

O buru na nranye ndabara ezughị oke, enwere ike ihazi ya site na ipi botinu "Advanced" mgbe i na-etinye ya. Akukụ nke mbu nwere nhoro maka iwunye ya na okwa igwe, nke a ga-enweta maka ndi oru niile, ma o bu okwa onye oru, nke a ga-enweta naanị maka onye oru ugbo a. Ipi "Ozo" ga-ebute onye oru na menu atumatu. N'akukụ a, o ga-ekwe omume ihoro njirimara i ga-etinye site n'ikwalite ma o bu gbanyuọ atumatu na interface ahụ. A na-egosi nkowa nke atumatu n'okpuru igbe nwere njikwa mgbe i na-ahoro ya.

Ndumọdụ: RAAS Client enwere ike ijikwa ya site na ipị akara ngosi ngosi ya. Ka igosi akara ngosi mgbe niile na ogwe ọrụ, pịa gosi akara ngosi zoro ezo na taskbar wee dọrọ RAAS Client akara ngosi na mpaghara akara ngosi.

## 1.2 RAAS Server Configuration

RAAS Server Configuration enwere ike ibido site na mmalite menu, site na ipị aka nri nkesa na Explorer Explorer wee hōrọ "RAAS Server Configuration"ma ọ bụ site na ipị aka nri RAAS Client akara ngosi na tray sistemu ma hōrọ ma ọ bụ "RAAS Server Configuration" na mgborogwu menu ma ọ bụ na otu n'ime ihe nkesa menus. A na-eji ya maka ịhazi ntọala nke a ga-etinye maka nkesa ọ bụla.

- Enwere ike ịhōrọ sava site na listi ihe nkesa, iji gbanwee nhazi maka otu ihe nkesa.
- Ka ịgbakwunye ihe nkesa pịa bọtịnụ "Tinye..." soro wee tinye aha ihe nkesa ma ọ bụ ip nkesa wee pịa bọtịnụ "Tinye".
- Iji wepụ ihe nkesa hōrọ ihe nkesa iji wepụ wee pịa bọtịnụ "Wepụ".

A haziri nhazi ahụ na taabụ, na ntọala dī n'okpuru taabụ ọ bụla ka ewepụtara na ngalaba ndị a.

### 1.2.1 Izugbe

- **Kwado ihe nkesa** : Na-eme ka ihe nkesa na-arụ ọrụ ma tinye ntọala niile nkesa. E kwesighị ịtọ ihe nkesa ka ọ rụọ ọrụ ruo mgbe ahaziela ntọala niile.

Ntọala:

- **Utu aha** : Na-ekpebi nke utu aha nke ihe nkesa kwesiri inwe na niile RAAS Client interfaces.
- **Akauntụ** : Na-ekpebi akauntụ windows iji mee ihe na nkesa.
- **Paswọdu** : Na-ekpebi paswọdu na akauntụ windo iji maka nkwurita okwu na ihe nkesa.
- **Ngalaba** : Na-ekpebi ngalaba maka akauntụ windows iji maka nkwurita okwu na ihe nkesa.
- **Nyocha RDP** : Na-ekpebi iwu njirimara ị ga-eji mgbe ejikọtara n'agbanyeghi RemoteApp na sava, na-eji usoro RDP.
- **Jikọọ akpaaka** : Na-ekpebi ma RemoteApp ga-ejikọta ya na-akpaghi aka ma ọ bụrụ na ejikoro ya tupu mkpochi, ọra ma ọ bụ hibernate wdg.
- **Mmemme mmalite mmalite Autostart** : Na-ekpebi ma ngwa ndi ahaziri na-amalite na-akpaghi aka n'oge mmalite na ihe nkesa ga-amalite na-akpaghi aka site na RemoteApp mgbe mbu ejikoro.
- **Nogidenụ na-adị ndụ** : Na-ekpebi ma ọ bụrụ na ekwesiri imalite onye na-edobe ndu site na RemoteApp na sava mgbe ejikoro na mbu, iji gbochie njiko ahụ ipupu na-akpaghi aka mgbe emepeghi ngwa.
- **Klipbọdụ tughari** : Na-ekpebi ma ntughari klipbọdụ kwesiri igbanye ma ọ bụ gbanyuọ.
- **Ngwaorụ ntughari** : Na-ekpebi ma ngwaoru ga-atughari ya. Nhoro a choro ntọala agbakwunyere ka ọ ruo ọrụ, nke Microsoft dekọtara.
- **Ndi nbipute redirect** : Na-ekpebi ma ọ bụrụ na ntughari nbipute kwesiri igbanwu ma ọ bụ gbanyuọ.
- **Gosi okwa** : Na-ekpebi ma onye ọrụ kwesiri inata okwa balloon mgbe ị na-ejiko ma ọ bụ na-ewepu RemoteApp. Ekwesiri igbalite okwa na ntọala Windows maka okwa ka ọ ruo ọrụ.

RAAS Server Njikọ:

- **Ọnọdu** : Na-egosi puta ozi gbasara ọkwa nzikọrịta ozi ugbo a. "Enweghị ịkọntaktị" na-egosi na enweghị nzikọrịta ozi dị, "Kpọturụ" na-egosi na enwere ike ịnweta ihe nkesa, "dị" na-egosi na nkwurịta okwu na ndị RAAS Server ọrụ na ihe nkesa dị na "Jikọọ", nke na-egosi na ejikọrọ ihe nkesa na site RemoteApp.
- **RAAS Server version** : Ozi a bụ naanị ma ọ bụrụ na nkwurịta okwu na RAAS Server ọrụ na ihe nkesa dị, ma na-egosi arụnyere ụdị nke RAAS Server na ihe nkesa.
- **Jikọọ/jikọọ** -bọtinụ: A na-eji jikọọ ma ọ bụ jikọọ na nkesa site na RemoteApp.
- **Kwupụ** -bọtinụ: A na-eji ewepu ihe nkesa na RemoteApp.

## 1.2.2 Ụzọ mkpirisi

- **Kwado ụzọ mkpirisi ime ime** : Na-eme ka ụzọ mkpirisi ime ime ruo ọrụ ma tinye ntọala ụzọ mkpirisi niile dipụrụ adịpụ.

Ntọala mkpirisi ụzọ dị anya:

- **Mepụta ụzọ mkpirisi mmalite menu** : Na-ekpebi ma a ga-ebufe ụzọ mkpirisi mmalite menu na nkesa na onye ọrụ ugbo a nke kọmputa mpaghara, ka ịmalite site na RemoteApp. A ga-edobe ụzọ mkpirisi na nchekwa raara onwe ya nye na mmalite-menu nwere usoro aha [Server alias].
- **Mepụta ụzọ mkpirisi ngwa Windows** : Na-ekpebi ma ọ bụrụ na ekwesiri ibufe ụzọ mkpirisi ngwa Windows na nkesa na onye ọrụ ugbo a na kọmputa mpaghara, ka ịmalite site na RemoteApp. A ga-edobe ụzọ mkpirisi na nchekwa raara onwe ya nye na mmalite-menu nwere usoro aha [Server alias]. Maka ụzọ mkpirisi ngwa Windows ga-ebufe mgbe emechara nrụnye, a ga-ahoro ụzọ mkpirisi maka ihe nkesa site na RAAS Client mpaghara ngosi.
- **Mepụta ụzọ mkpirisi desktop** : Na-ekpebi ma ekwesiri ibufe ụzọ mkpirisi desktop dị na nkesa na onye ọrụ ugbo a na kọmputa mpaghara, ka ịmalite site na RemoteApp.
- **Debe ụzọ mkpirisi desktop na mgborogwu desktop** : Na-ekpebi ma ọ bụrụ na ekwesiri itinye ụzọ mkpirisi desktop sitere na sava ahụ na mgborogwu desktop nke onye ọrụ ugbo a. Nhoro ozo bụ idowe ha na folda raara onwe ya nye na desktop nwere usoro aha [Server alias].
- **Tinye utu aha nkesa na aha ụzọ mkpirisi** : Na-ekpebi ma ọ bụrụ na ụzọ mkpirisi ebufo na nkesa kwesiri inye aha nke ejiri utu aha nke ihe nkesa gbakwunyere.
- **Asụsụ nkesa maka aha ụzọ mkpirisi** : Na-ekpebi ma ụzọ mkpirisi ebufo na sava kwesiri inye aha dika asụsụ arunyere na sava ahụ siri di.

## 1.2.3 Nlere anya

- **Kwado ọhụhụ anya** : Na-eme ka ọhụhụ na-arụ ọrụ ma na-etinye ntọala niile anya.

Ntọala onyonyo:

- **Isi agba** : Na-ekpebi agba isi iji mee ihe ngosi niile.
- **Agba ederede** : Na-ekpebi agba ederede ejiri mee ihe ngosi niile.
- **Ucha ahiri** : Na-ekpebi agba ahiri ejiri maka ọhụhụ niile.
- **Frames** : Na-ekpebi ma windo RemoteApp maka ngwa di na ihe nkesa kwesiri inwe ihe icho mma. Enwere ike iji okpokolo agba gosi onye ọrụ nke ngwa nke nkesa.
- **Ogwe njiko** : Na-ekpebi ma ogwe njiko kwesiri idi mgbe windo RemoteApp maka ngwa di na sava na-arụ ọrụ. Enwere ike iji ogwe njiko gosi na ngwa di na ihe nkesa na-enweta ntinye.

- **Ogwe njikọ opacity** : O bụrụ na edobere "Ogwe njikọ", ntọala a na-ekpebi oghere njikọ njikọ.

## 1.2.4 Mgbakwunye Explorer Explorer

- **Kwado na ndọtị Explorer File** : Na-eme ka ihe nkesa ahụ pụta ìhè na RAAS Client Mgbatị Explorer failu na-emetuta niile dị irè RAAS Client Ntọala ndọtị ihe nchọgharị failu.

nchekwa ndị a na-ahụ anya: Jiri nhọrọ ndị a chọpụta folda onye ọrụ kwesiri ihu maka ihe nkesa na ndọtị Explorer File.

Ngwaọrụ na draịva a na-ahụ anya: Jiri nhọrọ ndị a chọpụta ụdị ngwaọrụ na draịva kwesiri ihu maka ihe nkesa na ndọtị Explorer File.

## 1.3 RAAS Client

Nke RAAS Client A na-enweta ngwa site na akara ngosi tray sistemu ya. Mgbe ipiri akara ngosi aka nri na tray sistemu, menu onodu ga-aputa. A ga-akwawaputa ihe nchikọta nhoro nke menu onodu a n'akuku a.

- **Desktopu dipuru adipu** : Mepee "RAAS Client Remote Desktop" ngwa, na-enweghi ihe nkesa ahoputara.
- **RAAS Server Configuration**: Mepee "RAAS Server Configuration" ngwa, na-enweghi ihe nkesa ahoputara.
- **Enyemaka (pdf)** : Mepee pdf na enyemaka gbasara RAAS.
- **Banyere** : Mepee windo nwere ozi gbasara arunyere RAAS Client.
- **Wepu** : mechie RAAS Client.

Nchikọta ihe di n'akuku nwere otu menu nke ihe nkesa o bua enyere aka. Oghere uhie n'ihu aha ihe nkesa na-egosi na ihe nkesa na-anoghi n'intaneti, okirikiri edo edo tupu aha nkesa ahụ na-egosi na ihe nkesa di na okirikiri akwukwo ndu akwukwo ndu tupu aha ihe nkesa na-egosi na njiko site na RemoteApp na ihe nkesa di.

Nchikọta nhoro ihe nkesa nke obere:

- **Jikoo** : Na-emeputa njiko na ihe nkesa site na RemoteApp.
- **Kwupu** : Na-ewepu ihe nkesa na RemoteApp.
- **Jikoo** : Na-ejikokwa RemoteApp njiko na nkesa.
- **Logoff** : Wepu onye ọrụ abanyela ugbo a na sava ahụ. Nhoro a na-emetuta naanị onye ọrụ nke ejikoro RAAS Client site na igwe mpaghara.
- **Reboot** : Malitegharịa ihe nkesa.
- **Melite mkpirisi mkpirisi** : na-emelite ụzọ mkpirisi niile sitere na sava. Ihe a choro mgbe i na-etinye ụzọ mkpirisi ngwa Windows.
- **Desktopu dipuru adipu** : Mepee"RAAS Client Ngwa Remote Desktop" nwere ihe nkesa ahoputara.
- **RAAS Server Configuration**: Mepee "RAAS Server Configuration" ngwa na ihe nkesa ahoputara.

## 1.4 RAAS Client Mgbakwunye Explorer Explorer

Ọ bụrụ na etinyere ndọtị aha oghere shei maka RAAS Client, a ga-enwe ngalaba na Explorer Explorer nke a na-akpọ "RAAS Client" na osisi nlele nke File Explorer mgborogwu larii. Enwere ike iji ngalaba a ijikwa failu na nchekwa maka ihe nkesa ọ bụla nwere ndọtị Explorer na-arụ ọrụ na ntọala. Emebere ya ka ọ rụọ ọrụ dị ka njikwa failu na failu na File Explorer, yana ụfọdụ nhọrọ ndị ọzọ akowaputara na ngalaba a.

Pịa aka nri nke sava:

- **Desktopu dipuru adipu** : Mepee "RAAS Client Remote Desktop" ngwa na ihe nkesa ahoputara.
- **RAAS Server Configuration**: Mepee "RAAS Server Configuration" ngwa na ihe nkesa ahoputara.

Pịa aka nri failu:

- **Mepee na remote host** : Mepee failu na ebe nnabata site na RemoteApp.
- **Meputa uzọ mkpirisi dipuru adipu** : Na-emeputa uzọ mkpirisi nke na-amalite failu na sava site na RemoteApp mgbe arụ ọrụ ya. Emebere failu ahụ na nchekwa dị ugbu a.

Pịa aka nri failu wee doro ya gaa ebe ọzọ tupu ahapụ ya:

- **Meputa uzọ mkpirisi ime ebe a** : Na-emeputa uzọ mkpirisi nke na-amalite failu na sava site na RemoteApp mgbe arụ ọrụ ya. A na-emeputa failu ahụ n'ebe a dokpuru failu ahụ.

## 1.5 RAAS Client Remote Desktop

"RAAS Client Remote Desktop" enwere ike imalite site na ipi aka nri nke ihe nkesa na ndọtị ihe nchoghari failu wee horo "Remote Desktop" ma ọ bụ site na ipi aka nri. RAAS Client akara ngosi na tray sistemu ma horo "Desktopu dipuru adipu" na menu mgborogwu ma ọ bụ n'otu n'ime menu ihe nkesa. A na-eji ya jikọọ na sava nwere desktopu dipuru adipu site na iji nzere echekwara, nke enwere ike ihazi ya site na iji RAAS Server Configuration.

- **Ihe nkesa** : Horo ihe nkesa iji jikọọ na iji desktopu dipuru adipu.

Ntọala:

- **Nyocha RDP** : Na-ekpebi iwu njirimara i ga-eji mgbe i na-ejikọta ọ bụ ezie na desktopu dipuru adipu na ihe nkesa, na-eji usoro RDP.
- **Klipbọdụ tugharia** : Na-ekpebi ma ntughari klipbọdụ kwesiri igbanye ma ọ bụ gbanyuọ.
- **Ngwaorụ ntughari** : Na-ekpebi ma ngwaorụ ga-atughari ya. Nhoro a choro ntọala agbakwunyere ka ọ rụọ ọrụ, nke Microsoft dekọtara.
- **Ndi nbipute redirect** : Na-ekpebi ma ọ bụrụ na ntughari nbipute kwesiri igbanwu ma ọ bụ gbanyuọ.
- **Ihuenyo zuru ezu** : Na-ekpebi ma ekwesiri imalite desktopu dipuru adipu na onodu ihuenyo zuru oke.
- **Ogwe njiko** : Na-ekpebi ma ogwe njiko kwesiri idi na onodu ihuenyo zuru oke.
- **Ogwe njiko pin** : Na-ekpebi ma ọ bụrụ na ekwesiri itinye ogwe njiko ahụ na mbu.
- **Ogo Dektop** : Na-ekpebi obosara desktopu maka nnoko desktopu dipuru adipu.
- **Ogo Desktopu** : Na-ekpebi idi elu desktopu maka nnoko desktopu dipuru adipu.

# 1.6 Search & Run

Search & Run na-enye ụzọ dị mfe ịji chọọ ngwa arụnyere na sava wee mee ngwa ndị ahụ. Awụnyere ya na nkesa mana echere na a ga-eji ya dị ka ngwa RemoteApp site na RAAS Client na kọmputa ndị ahịa. Ọ na-arụ ọrụ dị ka nnọchi maka Windows search, nke na-adighị enweta site na RAAS Client. A na-eme ịchọ failu site na ịchọ failu nke na-amalite na eriri enyere na mpaghara ọchụchọ. "\*" n'ime eriri ahụ dabara na eriri ọ bụla yana "?" na eriri dabara agwa ọ bụla.

## 2 RAAS Server

Iji jikwaa sava, ma ọ bụ kọmputa kwadoro, site na RAAS Client, RAAS Server kwesiri ka etinyere na kọmputa ndị ọbịa.

### 2.1 Nwunye

RAAS Server arụnyere site na nbudata RAASServer\_[udi]\_x64.msi na sava, ma ọ bụ kọmputa nnabata, wee mepee failu ahụ. Ọ bụrụ na nrụnye ndabara zuru oke naanị omume a ga-eme bụ ịnakwere nkwekọrịta ikike wee pịa wunye.

Iji mee ihe RAAS Server site na a RAAS Client Kọmputa, ịkwesiri ibanye otu ugboro site na interface desktopu ozugbo etinyere mmemme ahụ na onye ọrụ ịchọrọ ijikwa sava ahụ site na RemoteApp.

Sistemu choro: Na-akwado ụdị 64 bit nke Windows 10 & 11 Pro na Enterprise yana Windows Server RDS. NET Framework 4.8 na .NET 8 di ha abuo mkpa.

#### 2.1.1 Ntọala di elu

Ọ bụrụ na nrụnye ndabara ezughị oke, enwere ike ịhazi ya site na ịpị bọtịnụ "Advanced" mgbe ị na-etinye ya. N'akụkụ a, ọ ga-ekwe omume ịhọrọ njirimara ị ga-etinye site n'ikwalite ma ọ bụ gbanyụọ atumatu na interface ahụ. A na-egosi nkọwa nke atumatu n'okpuru igbe nwere njikwa mgbe ị na-ahọrọ ya.

- Ọ bụrụ na etinyere na Windows Server maka ịnweta RDS, a na-atụ aro ka ị gbanyụọ ikike ịmalitegharị ihe nkesa ahụ n'aka ndị ahịa RDS. Enwere ike ịhazi nke a site na ịpị bọtịnụ "Advanced" na nrụnye wee họrọ "Njirimara niile agaghị adị" maka njirimara akpọrọ "nwere ike ịmalitegharị".

### 2.2 Nhazi Windows akwadoro

- A na-atụ aro ka ị kwe ka njirimara echekwabara paswọdụ na mbak kọmputa di na nkesa ịji kwe ka ịnweta site na RAAS Client Mgbatị Explorer failu na kọmputa onye ahia. Microsoft debere akwukwo ịji nye nkwenye echekwabara paswọdụ na nkesa kọmputa di na sava ahụ.
- A na-atụ aro ka ị gbanyụọ User Account Control, UAC, na ihe nkesa na-enwe ike ịwunye mmemme na ihe nkesa site RAAS Client RemoteApp. User Account Control na nkwalite ihe ụgwù anaghị akwado ya RAAS Client RemoteApp. Akwukwo ịji gbanyụọ User Account Control Microsoft na-enye ya.
- Ekwesiri ihapu njiko desktopu dipuru adipu na sava maka Microsoft RemoteApp ka ya na ya ruo ọrụ RAAS Client.
- RAAS Client na-ekwurita okwu RAAS Server site n'odu ụgbọ mmiri 43000, a ga-ahapu odu ụgbọ mmiri a site na firewalls. A na-emeputa ntinye na firewall Windows na-akpaghi aka na

ntinye nke RAAS Server.

- Njikọ mbụ na ihe nkesa na onye ọrụ nke ịchọrọ ijikwa ihe nkesa site na RemoteApp ka achọrọ ka imeputa ụzọ mkpirisi.
- Ọ bụrụ na ejiri ya na mmanya njikọ si RAAS Client, a na-atụ aro ka gbanyụọ ntọala Multi-tasking "Gosi nhazi ọnyà mgbe m dọkpurụ windo n'elu ihuenyo m", nke a na-enweta na ntọala sistemụ Windows. Ọrụ ahụ na-emegide ya RAAS Client ogwe njikọ mgbe ejiri ya n'otu oge. Igbanwe nke a ga-eme ka ngwa ndị dipurụ adipụ na-aga nke ọma karị.

## 2.3 Search & Run

Search & Run na-enye ụzọ dị mfe iji chọọ ngwa arụnyere na sava wee mee ngwa ndị ahụ.

Awụnyere ya na nkesa mana echere na a ga-eji ya dị ka ngwa RemoteApp site na RAAS Client na kọmputa ndị ahia. Ọ na-arụ ọrụ dị ka nnọchi maka Windows search, nke na-adighị enweta site na RAAS Client. A na-eme ịchọ failụ site na ịchọ failụ nke na-amalite na eriri enyere na mpaghara ọchụchọ. "\*" n'ime eriri ahụ dabara na eriri ọ bụla yana "?" na eriri dabara agwa ọ bụla.

## 3 nsughari

Udị ọhụrụ nke RAAS Client na RAAS Server ekwesiri ka ebiputa ya n'otu oge yana otu nomba udị dabara na mkpado udị dị na GitHub. RAAS Client na RAAS Server kwesiri dakọtara ma ọ bụrụhaala na isi udị nomba bụ otu ya bụ nke mbụ nke nomba na failụ aha.

## 4 Nkwado

### 4.1 Okwu nkịtị

Ihe nchọgharị failụ nwere ike iwe ogologo oge imalite n'ihi na Windows na-agbakwunye ebe netwọk na-akpaghị aka na inweta ngwa ngwa. N'okwu ahụ, nsogbu ga-eme ma ọ bụrụ na enweghị ike inweta ebe netwọk ahụ.

- Iji dozie: Gbanwee ọnọdụ mepere emepe maka ntọala onye nyocha failụ site na "Ụlọ" gaa na "PC a".