New User HTA

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Requirements

An HTML Application (HTA) which can be used both to create new AD user accounts, and to modify existing AD user accounts.

Languages

* HTML – User input, print output, GUI
* VBScript – Collect and validate user input, call Powershell and pass in user input
* Powershell – Perform AD functions (New-ADUser, Reset-ADUserPassword, etc.)

User-supplied information

* First name (Required to create a new user)
* Last name (Required to create a new user)
* Password (Required)
* Username (Required to reset a password)
* OU

Basic Setup

HTML

Text inputs

* First name
* Last name
* Username
* OU

Password inputs

* Password
* Confirm password

Button inputs (call corresponding VBScript subs)

* Create User
* Lookup OUs
* Reset Password

Divs (for printing results/status)

* Result Info

VBScript

Sub createUser (called from Create User button)

* Collect user input
* Validate input
* Make sure all required fields are filled out
* Make sure passwords match
* Build string of parameters to pass to Powershell
* First name
* Last name
* Username (if specified)
* Password
* OU (if specified)
* Call Powershell script
* Collect data (status, or error, message) returned from Powershell via clipboard
* Print returned data to the resultInfo Div

Sub lookupOUs (called from Lookup OU button)

* Call Powershell script
* Collect data (OU’s DN) returned from Powershell via clipboard
* Print returned data to the OU text box

Sub resetPass

* Collect username and password fields from user input
* Make sure passwords match
* Build string of parameters to pass to Powershell
* Username
* Password
* Call Powershell script
* Collect data (status or error message) returned from Powershell via clipboard
* Print returned data to the resultInfo Div

Powershell

New-User.ps1

* Collect information passed in from VBScript
* Create necessary variables not supplied by user
* Name (format can be changed by admin to meet the requirements of the domain)
* Home directory (can be changed by admin to meet the requirements of the domain)
* Letter assigned to mapped home drive (can be changed by admin to meet the requirements of the domain)
* Username, if not supplied by user and/or if necessary to meet the requirements of the domain
* Password, as a secure string (converted from the user-supplied plain text password)
* Assemble the list of parameters to be used with the New-ADUser command
* GivenName
* SurName
* SamAccountName
* AccountPassword
* HomeDirectory
* HomeDrive
* Name
* OU (if specified)
* Run New-ADUser to create the user account
* Return message to the HTA (via clipboard)
* If successful, return message saying so
* If an error occurs, return the error message

Get-OUs.ps1

* Run Get-ADOrganizationalUnits to get a list of the Distinguished Names of the OUs in the domain
* Send results to Out-GridView and have the user select an OU from the list
* Return the selected OU’s DN to the HTA (via clipboard)

Reset-Pass.ps1

* Collect variables passed in from HTA
* Convert the plain text password to a secure string
* Run Reset-ADUserPassword to reset the selected user's password
* Return message to the HTA (via clipboard)
* If successful, return message saying so
* If an error occurs, return the error message

Features to be added

* Ability to select groups to add the user to
* Ability to copy an existing user
* Ability to require the user to change the password at the next logon