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 – Create the user (New-ADUser)

## User-supplied information

Required parameters:

* First name
* Last name
* Password

Optional parameters:

* Username (if not supplied, set to default format)
* 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

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

## 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)

# Features to be added

* Ability to modify an existing user
* 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