

Thursday, 24 October 2013

Create new Active Directory User in C#

Description:

In this article, I am going to write C# code snippets to create new Active Directory user and Bulk AD users in different methods.

Summary:

1. Create new Active Directory user in C# using UserPrincipal
2. Create new user in Active Directory using C# with DirectoryEntry
3. Create Bulk AD Users in C#
4. Create Bulk AD Users From CSV File in C#

Create new Active Directory user in C# using UserPrincipal:

To use this class, you need to add reference **System.DirectoryServices.AccountManagement.dll**

```

1 PrincipalContext ouContext = new PrincipalContext(ContextType.Domain,
2                                     "TestDomain.local",
3                                     "OU=TestOU,DC=TestDomain,DC=local");
4
5 try
6 {
7     UserPrincipal up = new UserPrincipal(ouContext);
8     up.SamAccountName = "NewTestUser";
9     up.SetPassword("password");
10    up.Enabled = true;
11    up.ExpirePasswordNow();
12    up.Save();
13 }
14 catch (Exception ex)
15 {
16 }

```

Create new user in Active Directory using C# with DirectoryEntry:

To use this class, you need to add reference **System.DirectoryServices.dll**

```

1 DirectoryEntry ouEntry = new DirectoryEntry("LDAP://OU=TestOU,DC=TestDomain,DC=local");
2
3 try
4 {
5     DirectoryEntry childEntry = ouEntry.Children.Add("CN=NewTestUser", "user");
6     childEntry.CommitChanges();
7     ouEntry.CommitChanges();
8     childEntry.Invoke("SetPassword", new object[] { "password" });
9     childEntry.CommitChanges();
10 }
11 catch (Exception ex)
12 {
13 }

```

Create Bulk AD Users in C#:

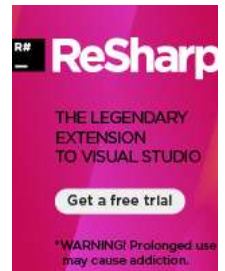
```

1 DirectoryEntry ouEntry = new DirectoryEntry("LDAP://OU=TestOU,DC=TestDomain,DC=local");
2
3 for (int i = 0; i < 10; i++)
4 {
5     try
6     {
7         DirectoryEntry childEntry = ouEntry.Children.Add("CN=TestUser" + i, "user");
8         childEntry.CommitChanges();
9         ouEntry.CommitChanges();
10        childEntry.Invoke("SetPassword", new object[] { "password" });
11        childEntry.CommitChanges();
12    }
13    catch (Exception ex)
14    {
15    }
16 }
17 }

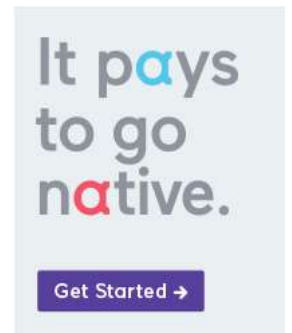
```

Create Bulk AD Users From CSV File in C#:

Consider the CSV file *All_users.csv* which contains set of new AD Users to create with the column header *samAccountName*.



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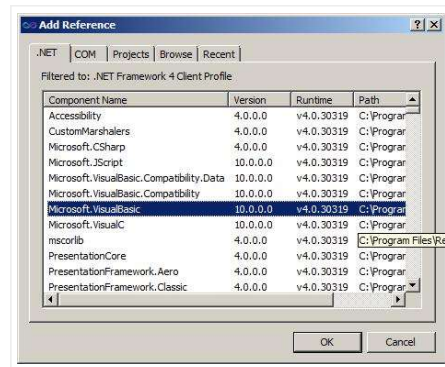
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	A	B	C
1	Name	samAccountName	ParentOU
2	TestUser	TestUser	OU=TestOU,DC=TestDomain,DC=Local
3	TestUser1	TestUser1	OU=TestOU,DC=TestDomain,DC=Local
4	MorganTest1	MorganTest1	OU=TestOU,DC=TestDomain,DC=Local
5	MorganTest2	MorganTest2	OU=TestOU,DC=TestDomain,DC=Local
6			

We are using the Visual basic class **TextFieldParser** to read CSV file, so we need to add reference dll **Microsoft.VisualBasic**.



```

1 static void CreatBulkADUsersFromCSVFile()
2 {
3     string csvFilePath=@"C:\Users\Admin\Desktop\All_users.CSV";
4
5     using (TextFieldParser csvReader = new TextFieldParser(csvFilePath))
6     {
7         csvReader.SetDelimiters(new string[] { "," });
8         csvReader.HasFieldsEnclosedInQuotes = true;
9
10        // reading column fields
11        string[] colFields = csvReader.ReadFields();
12
13        int index_samaccountName = colFields.ToList().IndexOf("samAccountName");
14
15        while (!csvReader.EndOfData)
16        {
17            // reading user fields
18            string[] fieldData = csvReader.ReadFields();
19
20            DirectoryEntry ouEntry = new DirectoryEntry("LDAP://OU=TestOu,DC=YourDomain,DC=local")
21
22            try
23            {
24                DirectoryEntry childEntry = ouEntry.Children.Add("CN=" + fieldData[index_samaccountName]);
25                childEntry.CommitChanges();
26                ouEntry.CommitChanges();
27                childEntry.Invoke("SetPassword", new object[] { "password" });
28                childEntry.CommitChanges();
29            }
30            catch (Exception ex)
31            {
32            }
33        }
34    }
35 }

```

Thanks,
Morgan
Software Developer

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3 comments:




Anonymous

10 July 2015 at 07:10

could you provide an example of what a csv would look like?

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Morgan

10 July 2015 at 21:29

Hi, you can use any CSV file which contains set of new AD users to create with the column header samAccountName.

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Anonymous

10 July 2015 at 07:11

a csv pertaining to the bulk entry as far as the contents inside. thanks for your help.

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