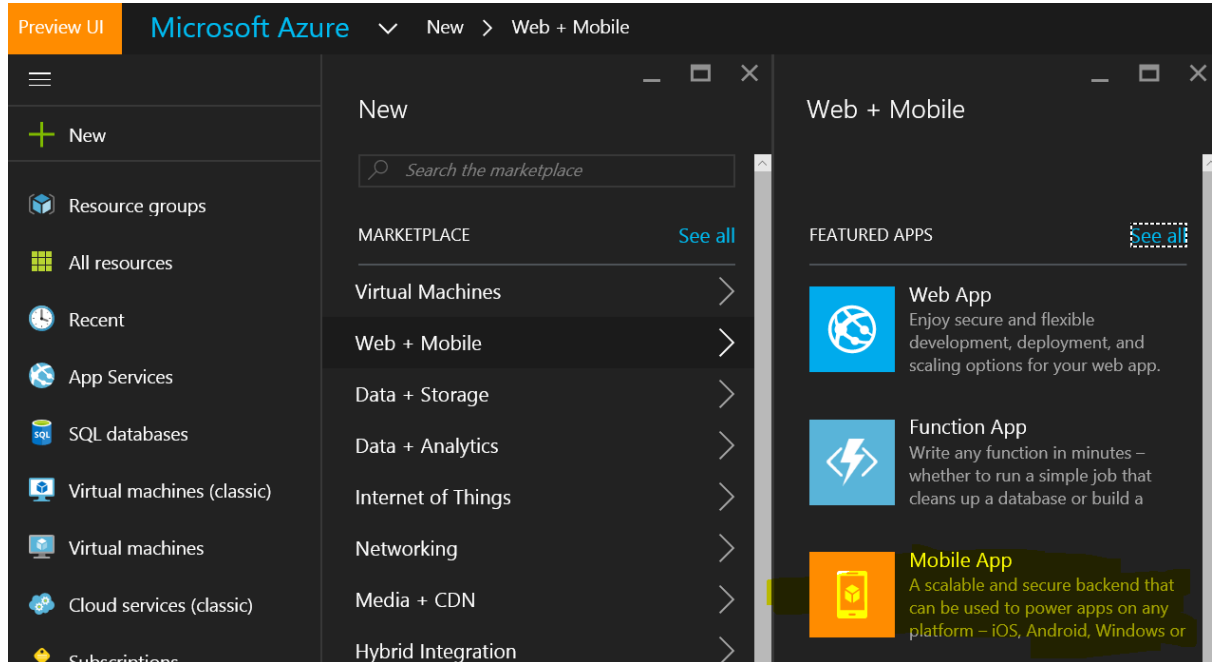


Azure App services in Xamarin

1. Go to <https://ms.portal.azure.com>
2. Go to New > Web+Mobile > Mobile App

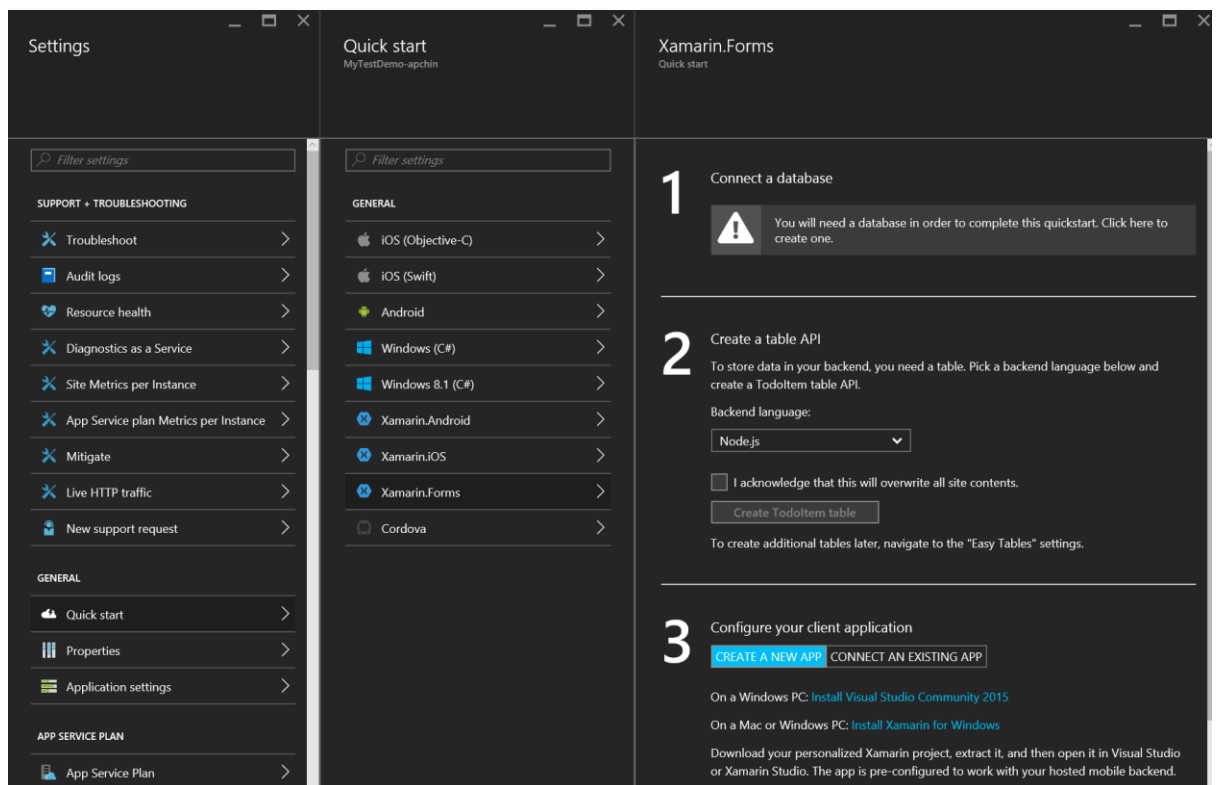


3. Give a **AppName** and a **ResourceName**

The screenshot shows the 'Mobile App' creation form. It includes several fields: 'App name' with the value 'MyTestDemo-apchin' and a checkmark; 'Subscription' with a dropdown menu showing 'Microsoft Azure Internal Consumption'; 'Resource Group' with a dropdown menu showing '+ New'; 'New resource group name' with the value 'MyTestDemo-apchin' and a close button; and 'App Service plan/Location' with a dropdown menu showing 'ServicePlan20eedf85-bf57(South...'. At the bottom, there is a 'Pin to dashboard' checkbox and a 'Create' button.

4. Go to your Mobile app Created > Settings > Quick Start > Xamarin Forms > **Connect a database.**

5. Create a table API – Backend Language choose Node.js > **Create ToDoItem Table**



C# Code Snippets

Class ToDoItem

=====

```
public class TodoItem
{
    string id;
    string name;

    [JsonProperty(PropertyName = "id")]
    public string Id
    {
        get { return id; }
        set { id = value; }
    }

    [JsonProperty(PropertyName = "text")]
    public string Name
    {
        get { return name; }
        set { name = value; }
    }
}
```

```

    }
}

[Version]
public string Version { get; set; }
}

```

Saving items to Azure

Declare the below in the App.cs

```
Microsoft.WindowsAzure.MobileServices.IMobileServiceTable<TodoItem> todoTable;
```

```
string ApplicationURL = @"https://<Your MobileApp Name>.azurewebsites.net";
```

Initialize the below in the Constructor

```
MobileServiceClient client = new MobileServiceClient(
    ApplicationURL);

todoTable = client.GetTable<TodoItem>();
```

Add to Azure button click event

```
private async void AddToAzure_Clicked(object sender, EventArgs e)
{
    var todo = new TodoItem { Name = result.Text + "Something else" };
    await AddItem(todo);
}

private async Task AddItem(TodoItem todo)
{
    await SaveTaskAsync(todo);
}

public async Task SaveTaskAsync(TodoItem item)
{
    if (item.Id == null)
    {
        await todoTable.InsertAsync(item);
    }
    else
    {
        await todoTable.UpdateAsync(item);
    }
}

```

Adding Nuget Packages

1. Right Click on the portable project > Manage NuGet Packages.
2. You need to install the below packages –
WindowsAzure.MobileServices
Newtonsoft.Json
3. Repeat Step 2 for Xamarin.UWP project as well.

Retrieve Items from Azure table

```
Microsoft.WindowsAzure.MobileServices.IMobileServiceTable<TodoItem> todoTable;

public async void getitems()
{
    string ApplicationURL = @"https://apchin-todo.azurewebsites.net";
    MobileServiceClient client = new MobileServiceClient(
        ApplicationURL);

    todoTable = client.GetTable<TodoItem>();
    ListViewBox.ItemsSource = await GetTodoItemsAsync();
}

public async Task<ObservableCollection<TodoItem>> GetTodoItemsAsync(bool
syncItems = false)
{
    try
    {
        IEnumerable<TodoItem> items = await todoTable
            .ToEnumerableAsync();

        return new ObservableCollection<TodoItem>(items);
    }
    catch (MobileServiceInvalidOperationException msioe)
    {
        Debug.WriteLine(@"Invalid sync operation: {0}", msioe.Message);
    }
    catch (Exception e)
    {
        Debug.WriteLine(@"Sync error: {0}", e.Message);
    }
    return null;
}
```