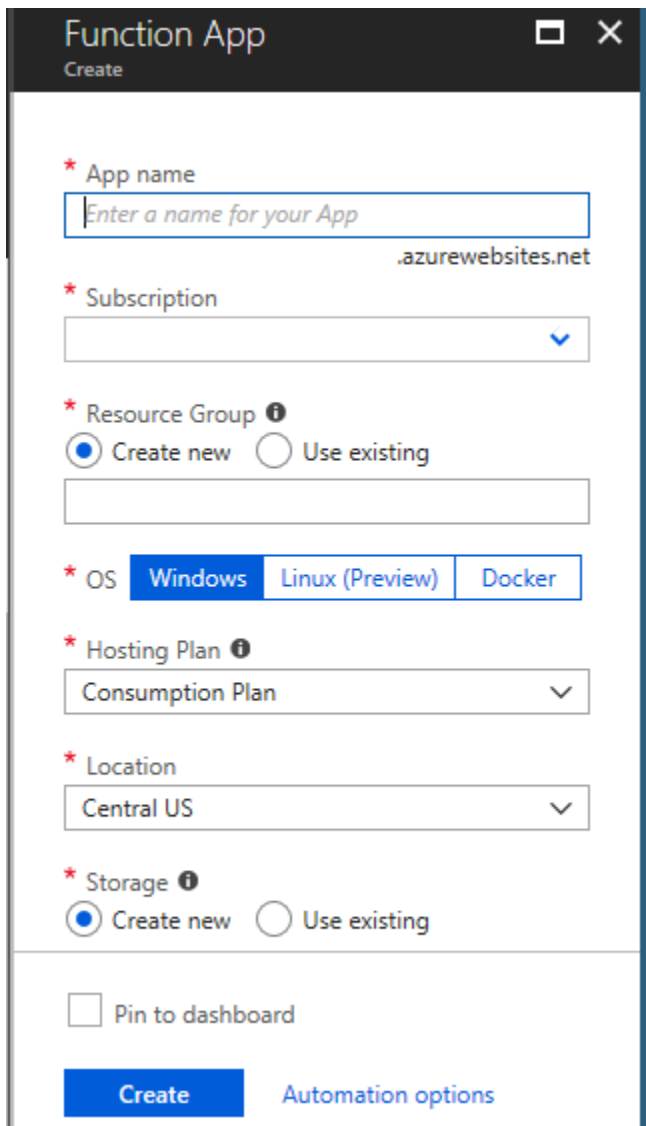


Using Service Hook to execute Azure Function

In this lab document we will create a service hook in Visual Studio Team Services which will automatically trigger an Azure Function

Pre-requisites: VSTS account, Azure account to create function

1. We need to create azure function so as to trigger it from service hook. Login to <https://portal.azure.com> . Click on create a resource and search for function app
2. Provide name, select subscription, provide resource group and other details and click on create

The image shows a screenshot of the 'Function App' creation wizard in the Azure portal. The window title is 'Function App' with a 'Create' subtitle. The form contains several fields: 'App name' with a placeholder 'Enter a name for your App' and a '.azurewebsites.net' suffix; 'Subscription' as a dropdown menu; 'Resource Group' with radio buttons for 'Create new' (selected) and 'Use existing', followed by a text input field; 'OS' as a tabbed interface with 'Windows' (selected), 'Linux (Preview)', and 'Docker'; 'Hosting Plan' as a dropdown menu with 'Consumption Plan' selected; 'Location' as a dropdown menu with 'Central US' selected; and 'Storage' with radio buttons for 'Create new' (selected) and 'Use existing'. At the bottom, there is a 'Pin to dashboard' checkbox and a 'Create' button, with a link for 'Automation options'.

3. Once the function app is created you can add a function to it. We will create a service hook for web item creation trigger. So I have created following function with HTTP Trigger which will display the type of workitem created using System.Net;

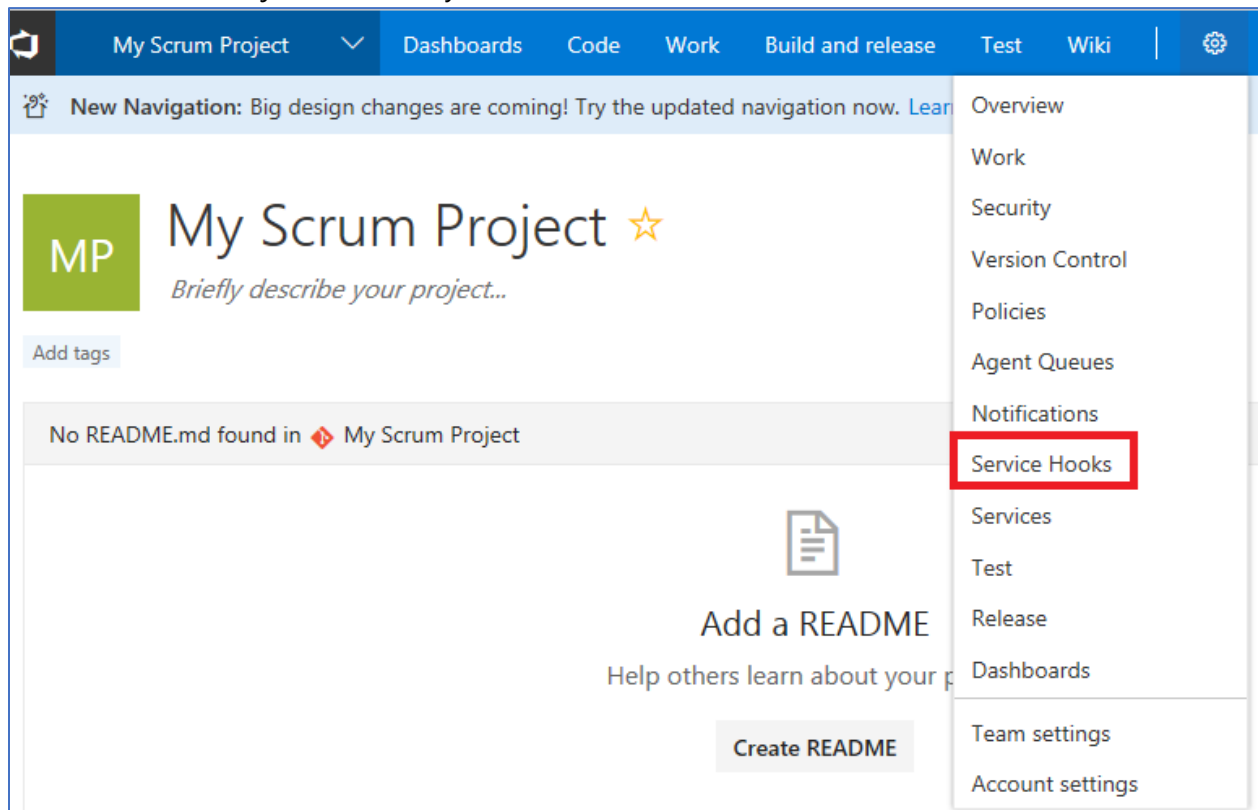
```

public static string Run(HttpRequestMessage req, TraceWriter log)
{
    log.Info("C# HTTP trigger function processed a request.");
    HttpContent requestContent = req.Content;
    string jsonContent = requestContent.ReadAsStringAsync().Result;
    string resource = jsonContent.Substring(jsonContent.IndexOf("resource"));
    log.Info(resource);
    int ind = resource.IndexOf("System.WorkItemType") + 21;
    int ind2=resource.IndexOf("System.State");
    string workitem = resource.Substring(ind, ind2 -ind);
    string result = "A new " + workitem + " is created";
    log.Info(result);
    return result;
}

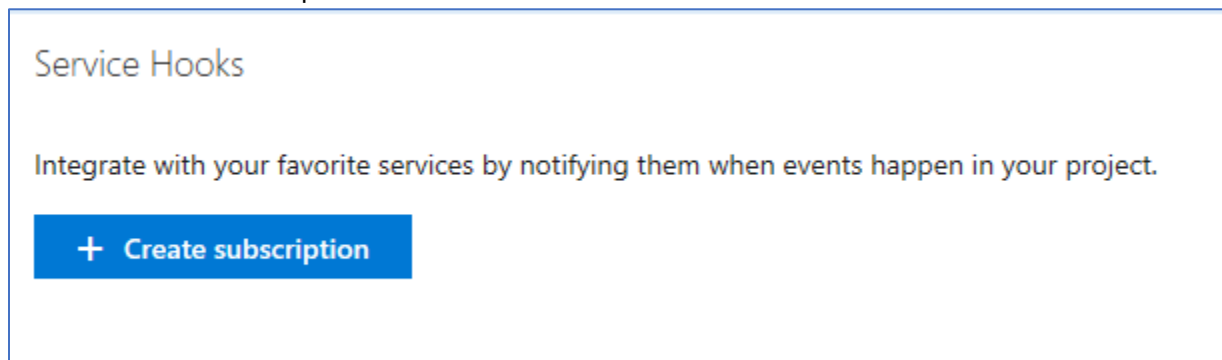
```

4. This function processes the json string and finds the type of workitem created. Now that the function is ready we can create a service hook

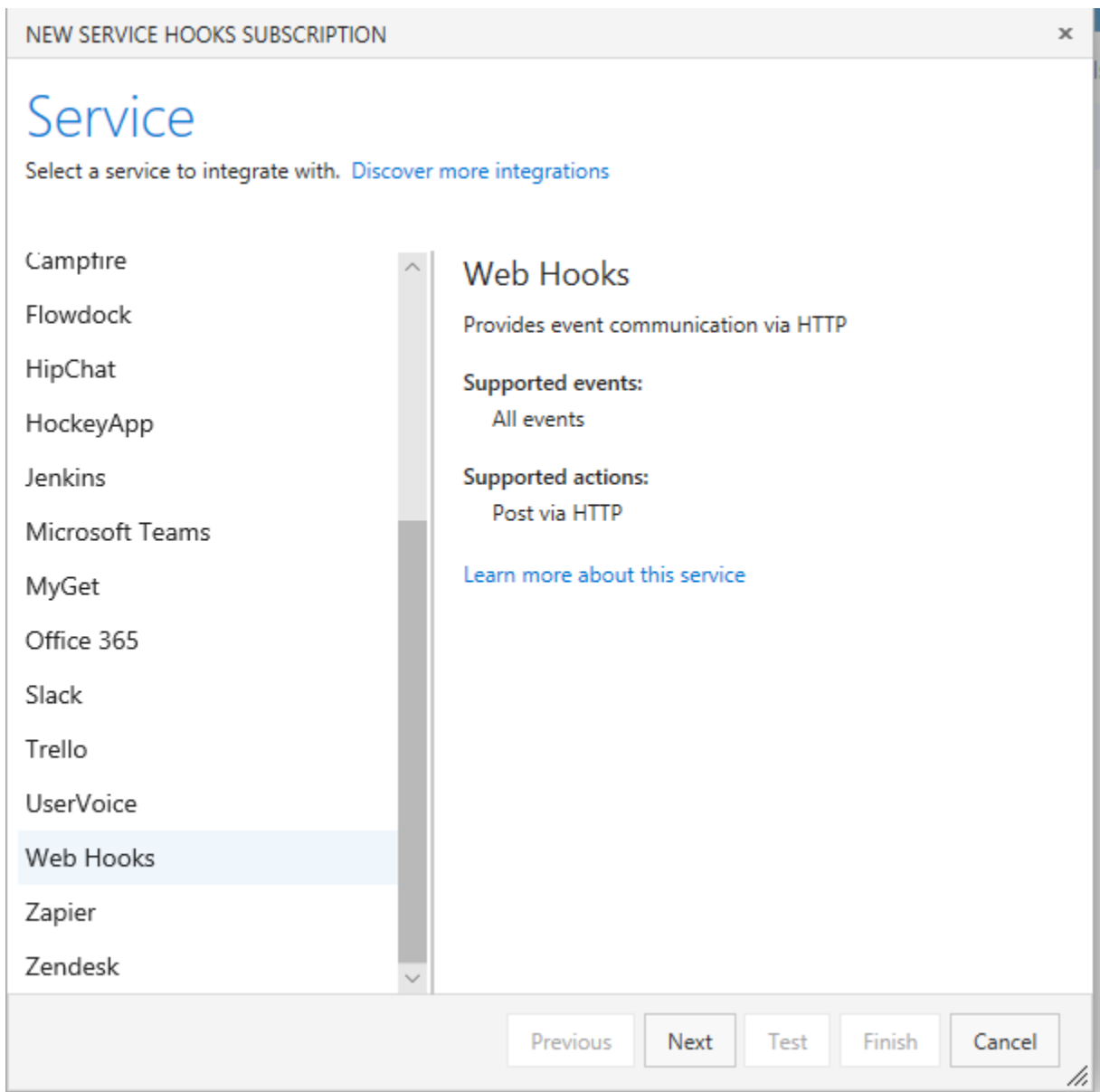
5. Select the Team Project for which you need to create Service Hook and select



6. Click on Create Subscription



7. Select Web Hooks



8. Next step is to select the trigger for the function which we are going to select as work item created.

NEW SERVICE HOOKS SUBSCRIPTION

Trigger

Select an event to trigger on and configure any filters.

Trigger on this type of event

Work item created

Filters

Area path [Any] optional

Work item type [Any] optional

☐ Links are added or removed

Tag [] optional

Previous Next Test Finish Cancel

9. In this step we have to provide the url for the function which we can get as follows

run.csx Save Run </> Get function URL

10. Click on Finish for the function, now create any work item and ensure that the function gets executed.

```
2018-07-04T07:05:35.684 [Info] A new "Product Backlog Item", is created
2018-07-04T07:05:35.684 [Info] Function completed (Success, Id=dd4375f4-5377-47ff-a6a6-2497d4a40cdc, Duration=167ms)
```