



#### Thank you to all of our Sponsors!!



































#### **About Me**





MCSE MCTS MCITP

Sr. SharePoint Consultant

Microsoft Community Contributor (#MCC)



www.amitvasu.com/blog



### **Agenda**



SP2013 Workflow Workflow Manager Architecture Visual SharePoint Designer **DEMO** Studio **DEMO** Workflow Workflow Guidance QA





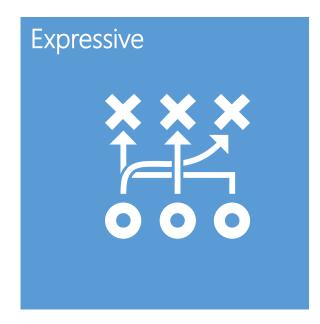


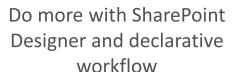
# Workflow Architecture

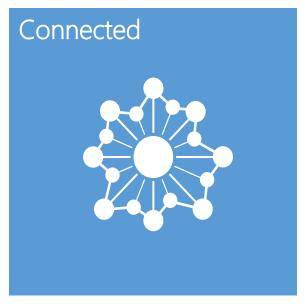


#### What's New









Cloud-ready workflow that fully integrates with the new SharePoint app model

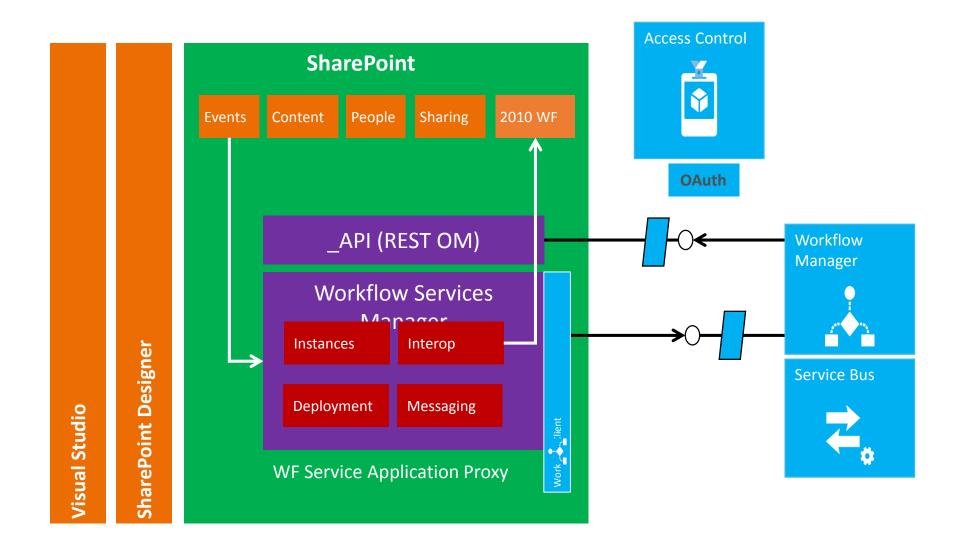


Run on newest workflow hosting technology for better scale and management of workflow processing



### **Architecture**

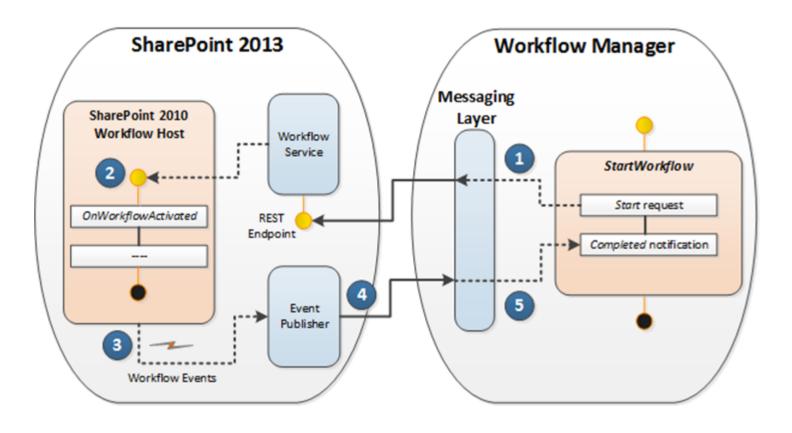






### **Workflow Interop**











### **Workflow Manager**



#### Pre-requisite



- .NET Framework 4 Platform Update 3 or .NET Framework 4.5
- Service Bus 1.0
- Workflow Client 1.0
- PowerShell 3.0
- The following additional requirements must be met
- Instance of SQL Server 2008 R2 SP1, SQL Server Express 2008 R2 SP1, or SQL Server 2012.
- TCP/IP connections or named pipes must be configured in SQL Server.
- Windows Firewall must be enabled.
- Ports 12290 and 12291 must be available.



#### Supported OS / DB



- Windows Server 2008 R2 SP1 x64
- Windows Server 2012 x64

**Note:** Windows 7 SP1 x64 and Windows 8 x64 are not supported for production purposes. You can install Workflow Manager 1.0 on them for development purposes.

- SQL Server 2012
- SQL Server 2008 R2 SP1 Express
- SQL Server 2008 R2 SP1
- SQL Server 2012 Express
- SQL Database

#### Welcome

This wizard helps you configure a Workflow Manager farm. The wizard also configures the Service Bus farm required by the Workflow Manager farm.



#### Configure Workflow Manager with Default Settings (Recommended)

Apply default configuration settings and configure Workflow Manager on the machine. A Workflow Manager farm will be created and you can join other computers to the farm later.



#### Configure Workflow Manager with Custom Settings

Override default configuration settings to configure Workflow Manager on the machine. A Workflow Manager farm will be created and you can join other computers to the farm later.



#### Join an Existing Workflow Manager Farm

Choose this option to add this computer to existing Workflow Manager farm and Service Bus farm.



#### New Farm Configuration

Provide mandatory configuration parameters that are required for creating databases and run services in the Workflow Manager farm. The same configuration will be used for the Service Bus farm.

Configure Farm Databases
SQL SERVER INSTANCE
Test Connection
➤ Advanced Options
Configure Service Account
User account under which the services will run (RunAs Account) using the format 'domain\user' or 'user@domain'. Credentials for the same account are required every time you join a computer to the farm.
USER ID
PASSWORD
Allow Workflow management over HTTP on this computer
☑ Enable firewall rules on this computer
i de la companya de
Certificate Generation Key
This key is required every time you join a computer to the farm.
CONFIRM CERTIFICATE GENERATION KEY
·





#### Configuration progress

Applying configuration. This may take up to 10 minutes to complete.

Create a new Service Bus farm.	<b>⊘</b>
Create a new Workflow Manager farm.	<b>Ø</b>
Add host to Service Bus farm.	<b>Ø</b>
Create Service Bus service namespace.	<b>Ø</b>
Get Service Bus client configuration.	<b>Ø</b>
Add host to Workflow Manager farm.	<b>Ø</b>
Configuration operation successful.	<b>Ø</b>

Details:	(View Log)
Processing completed	





### Installing and pairing

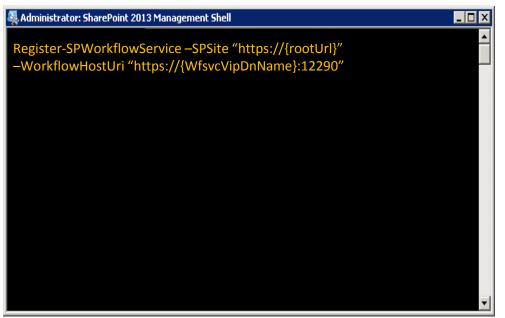


#### Available via Web Platform Installer or Download Center

- Workflow Manager 1.0
- Workflow Manager Client 1.0

#### Pairing PowerShell Command

- Farm Scoped
- Requires Workflow Manager Client on SharePoint machine



#### Uninstall or change a program

To uninstall a program, select it from the list and then dick Uninstall, Change, or Repair.



Strictly for developer and trial environments, it is possible to configure without SSL in SharePoint (not default)

Switch: -AllowOAuthHttp

Workflow Manager HTTP port: 12291



# Topic





# **SharePoint Designer Workflows**



### Two workflow platform

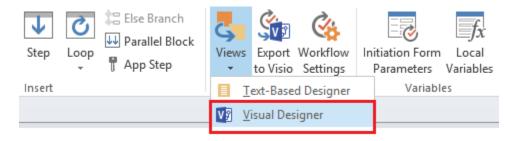


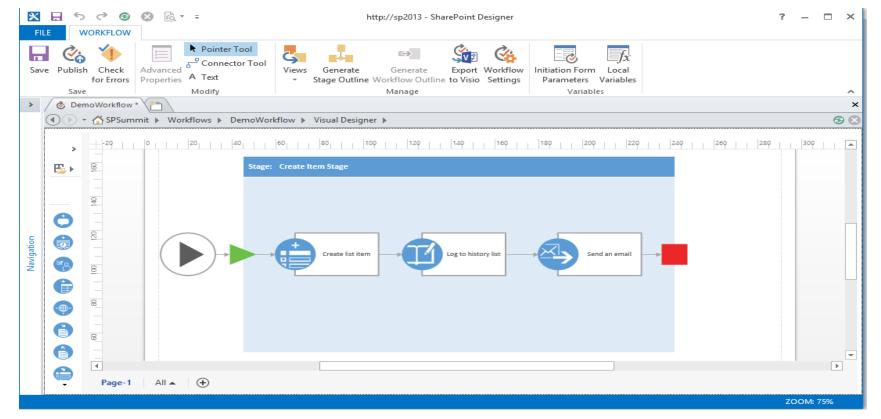
Create List Workflow -	Documents				? ×
Add a new v	workflow to your list				
Enter a name and	description for your new	workflow			
Name:					
Descriptions					
Description:					<del></del>
Choose the platfo	orm to build your workflo	won			
Choose the platte		w on			
Platform Type:	SharePoint 2013 Workflow	V	-		
	SharePoint 2010 Workflow	v			
	SharePoint 2013 Workflow	v		OK	Cancel



#### Visual Designer









### **Different Stages**

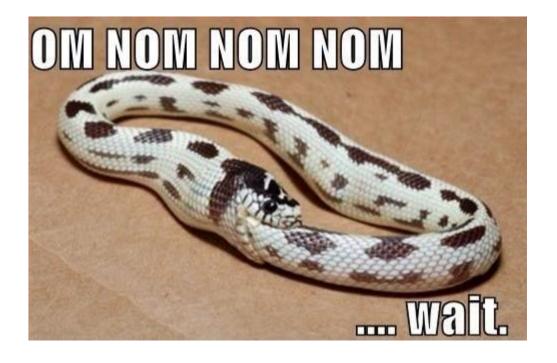


Stage: Stage 1
Log message to the workflow history list
Transition to stage
If <u>value</u> <u>equals</u> <u>value</u>
Go to <u>Stage 2</u>
Else
Go to <u>Stage 3</u>
Stage: Stage 2
(Start typing or use the Insert group on the Ribbon.)
Transition to stage
(Insert go-to actions with conditions for transitioning to the stage)
Stage: Stage 3
(Start typing or use the Insert group on the Ribbon.)
Transition to stage
(Insert go-to actions with conditions for transitioning to the stage)



### **LOOPS**

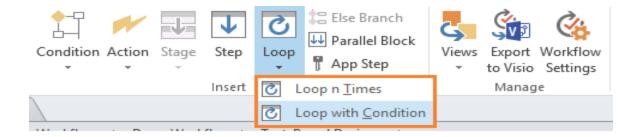






#### LOOPS





#### Loop: 1

The contents of this loop will run 1 times

#### Loop: 2

The contents of this loop will run repeatedly while: value equals value



#### **Parallel Block**





Insert

The following actions will run in parallel:

Log message to the workflow history list

and Comment: comment text

and Calculate value plus value (Output to Variable: calc )



#### List goes on



- Dictionary
- App Step
- Call HTTP Web Services
- New Actions
- Task Forms
- Designer support Cut/Copy/Paste/Undo/Redo/Select All



### Demo





### **SPD 2013 Experience**



# Topic





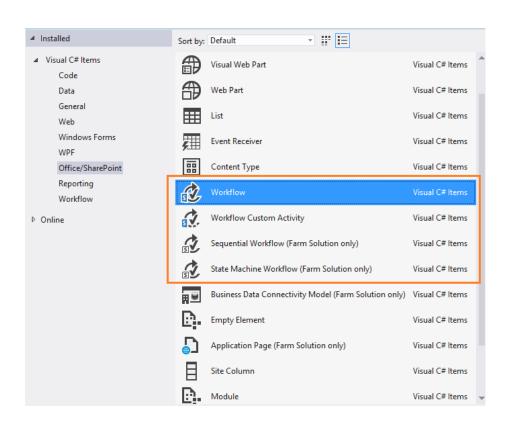
**Visual Studio Workflows** 



#### Two workflow platform



- No Code
- no longer compiled into managed assemblies
- XAML files define your workflows

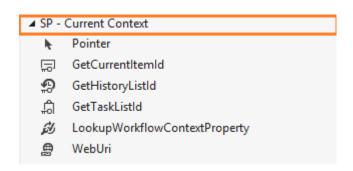


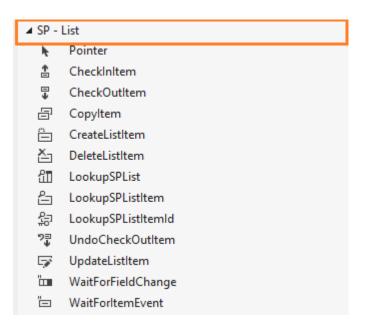


#### New workflow actions



- For custom code you can call HTTP Web Service
- Example: Call an external web service
- http://code.msdn.microsoft.com/office/SharePoint-2013-workflow-48ea87d4



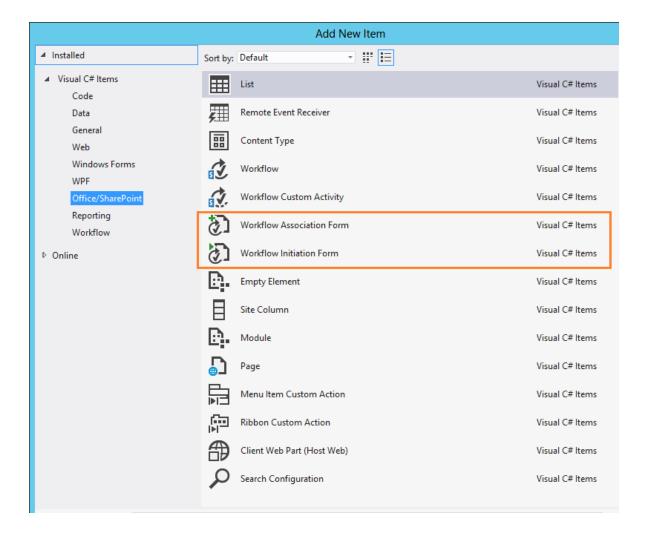




#### Workflow forms



- Association Forms
- Initiation Forms
- Task Forms





### **Powershell**



Use Windows PowerShell cmdlets to manage workflow

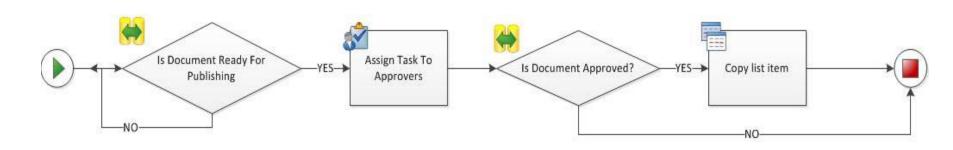
Cmdlet name	Description
Get-SPWorkflowConfig	Returns workflow settings for the specified Web application.
Set-SPWorkflowConfig	Configures the workflow settings for the specified Web application.
Get-SPDesignerSettings	Displays SharePoint Designer 2013 features.
Set-SPDesignerSettings	Sets SharePoint Designer 2013 features.
Register-SPWorkflowService	Configures the SharePoint host to use a workflow service.



### **Example**



Scenario: Document Publishing



Lists: Draft Documents

Published Documents



### Demo





VS 2012 Experience







# Guidance



#### SPD vs. Visual Studio



Feature / Requirement	SharePoint Designer	Visual Studio
Allows rapid workflow development	Yes	Yes
Reuse of workflows	Reusable (or Globally Reusable) workflow	Workflows are written as a Template
Included as an APP	No	Yes
Create custom actions	No (can consume and implement custom actions that are created and deployed by using Visual Studio.)	Yes
Allows you to write custom code	NO	No
Visio Integration	Yes	No
Debugging	No	Yes



### SP2013 WF vs. SP2010 WF



#### **SharePoint 2010 Workflow**

- Based on WWF 3.5
- SP 2010 Activities only when building WF

#### **SharePoint 2013 Workflow**

- Recommended for new development
- Based on WWF 4.5
- SP 2010 Activities only when building WF
- On-Prem and Hosted
- Deployed as .WSP or .APP



#### Remember to fill out your evaluation forms to win some great prizes!

&

#### Join us for SharePint today!

Date & Time: Nov 23<sup>rd</sup>, 2013 @6:00 pm

Location: The Observatory Pub,

Algonquin Student's Association

Address: A-170 on Algonquin Campus

Parking: No need to move your car!\*

Site: <a href="http://www.algonquinsa.com/ob.aspx">http://www.algonquinsa.com/ob.aspx</a>



# Q & A











### **Thank You**