Automation: The Microsoft Way



Who am I?

- I have been working on SharePoint for the last nine years first as a Consultant, then as Lead Developer for a local utility company, then back as a consultant.
- Outside of the office, I spend my free time taking down Dragons, and exploring Dungeons. I also hike the beautiful parks in Louisville, KY, with his wonderful wife Samantha, and adventurous puppy Lucas.



Who is HMB?

Employment Model

Over 250 FTE consultants. All had an intense interview process.



HMB Delivery Network

Our consultants can work on site, off site or even off shore.

Consultant Support

All of our consultants are supported with on-going education and certifications.



Customer +

Your access to regular thought leadership content, strategic workshops and custom training.

Layered Experience

We are not a staff aug firm.
When you work with HMB, you
have access to a network of
expert consultants.



Regional Partner

We were founded and our headquarter office is right here in the Columbus area! We are committed long term meaningful partnerships.



Overview

Automation Basics

AI in Automation

Machine Learning

Intelligent Automation

What is Automation?

Technology by which a process or procedure is performed with minimal human assistance.

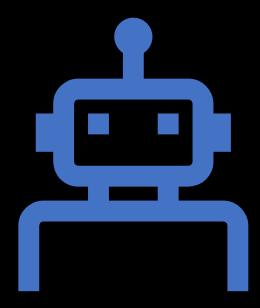
Why use Automation?

• By 2024, organizations will lower operational costs by 30% by combining hyperautomation technologies with redesigned operational processes.

*Gardner's IT Automation Predictions for 2020

Defining Characteristics of Automation

- Artificial Intelligence
- Machine Learning
- Intelligent Automation





Artificial Intelligence

Azure Cognitive Search

Extract Insights from all your content

Azure Cognitive Services

Pre-trained models that can be customized with your data.

Bot Service

Use the above services to build out bots for your organization.



Azure Cognitive Search

Scalable with minimal investment

Searchable content with integrated Al

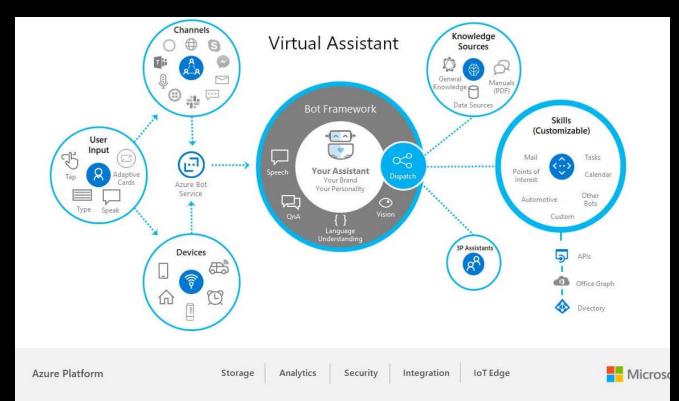
Customizable for your business needs



Azure Cognitive Services

- Decision Engine
 - Make smarter decisions faster with Anomaly Detection, Content Moderation, and personalized experiences
- Language Service
 - Extract data from unstructured text with LUIS AI, Text Analytics, and Translator services
- Speech
 - Integrate speech processing into your apps and services. To enable Text to Speech, Speech Translation, and Speaker recognition.
- Vision
 - Identify and analyze content using Computer Vision services to analyze your content.
- Web Search
 - Bring the web to your applications using Bing Web Searches.

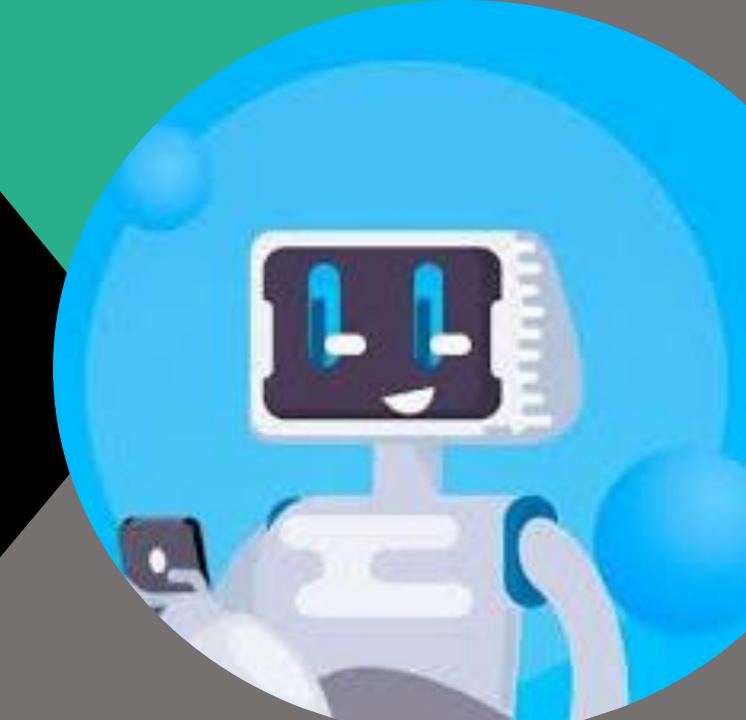
Azure Bot Service



Deliver a personalized experience to your organization by building a virtual assistant.



Robotty the conversational robot





Machine Learning

Accelerate Model creation with automate machine learning

MLOps bring Dev Ops functionality to Machine Learning streamlining the ML lifecycle.

Use ML to understand, protect, and control your data, models and processes.



Intelligent Automation

- Quickly automate business processes with Power Automate
- Orchestrate business processes across hybrid environments with Azure Automation Services.



Build business processes that scale according to your need

Power Automate



Manage approval processes from a centralized location



Automate applications without the need of API's



Accelerate your citizen development program with an easy, intuitive UI



TRIGGER TYPE

DESCRIPTION

Triggers

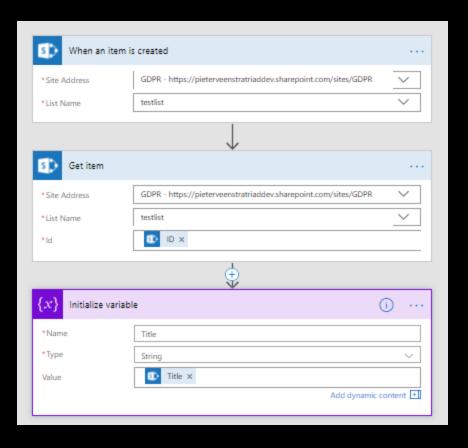
Polling, such as the **Recurrence** trigger

When the flow is turned on again, all unprocessed/pending events are processed. Delete your flow if you don't want to process pending items.

Webhook

When the flow is turned on again, it only processes new events that are generated after the flow is turned on.





Actions

- Perform operations such as Create, Update,
 Delete, Assign, or Perform an Action
- Examples include sending an email, Initializing a variable, Retrieving data, and many more.



Robotic Process Automation

- Increase Efficiency and Accuracy
- Simplify your business processes
- Build and Maintain scripts in a secure environment



Types of RPA

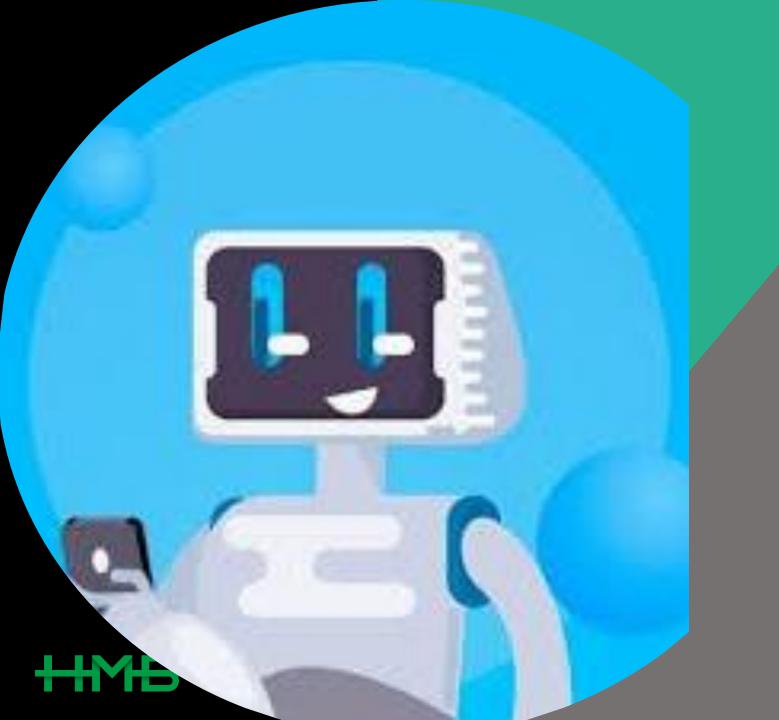
Attended

- Runs on a local workers PC allowing the worker to correct any errors as needed.
- Best if Human intervention is required

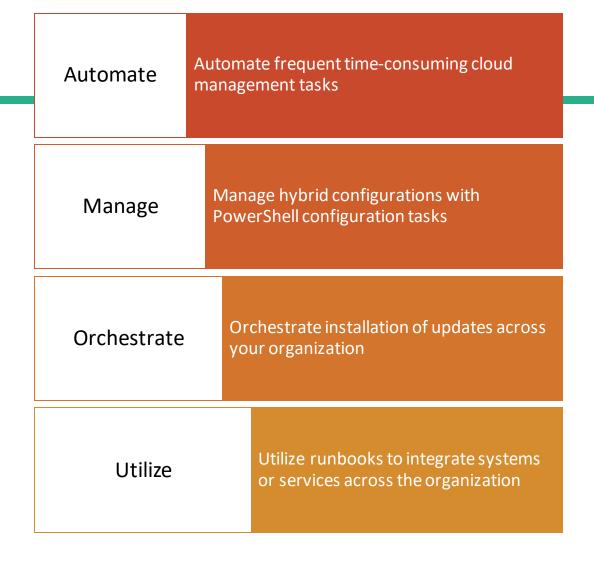
Unattended

- Runs with no user logged in
- Triggers in the background based on events
- Best for high volume repetitive tasks





Azure Automation





Common Scenarios

- Runbooks
- Build and Deploy Resources
- Configure VM's
- Knowledge Transfer
- Inventory Management
- Monitor
- Governance



Common Scenarios that are well defined

Runbooks

Three Types

Graphical

PowerShell

Python



Desired State Configurations



CENTRALIZED LOCATION



EASES MANAGEMENT WOES



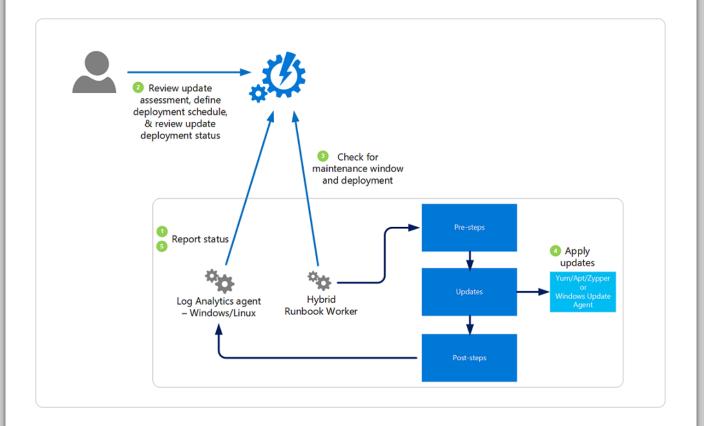
BUILT IN PULL SERVER



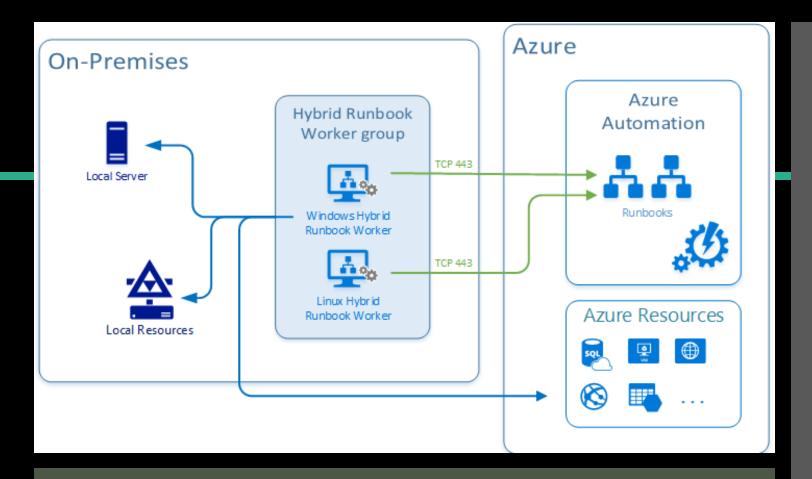
BUILT IN COMPLIANCE LOGGING

Manage VMs

- Manage Operating System Updates for Windows and Linux Machines in various environments
- Ability to quickly assess the status of available updates on all agent machines







 Allows you to continue running Runbooks and Desired State Configurations using Workers on your local network.

Hybrid Environments



Azure Automation
*Come up with
catchy title

Empower your team

Allow your citizen developers to build bots without coding or Al expertise

Power Virtual Agents

Reduce Cost

Automate common inquiries

Improve Customer Satisfaction

Allow your customers to self help and resolve their issues quickly 24/7



What are Power Agents?

- SaaS Product
- Intuitive, Code-Free Graphical Interface
- Conversational Al
- Enable Bots to take action on issues without human intervention
- Built-In Monitoring



