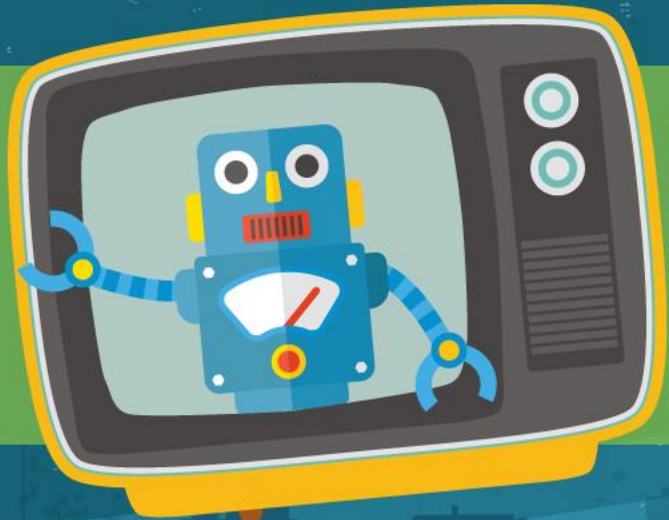Azure Pipelines
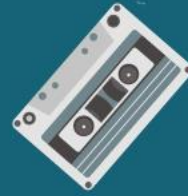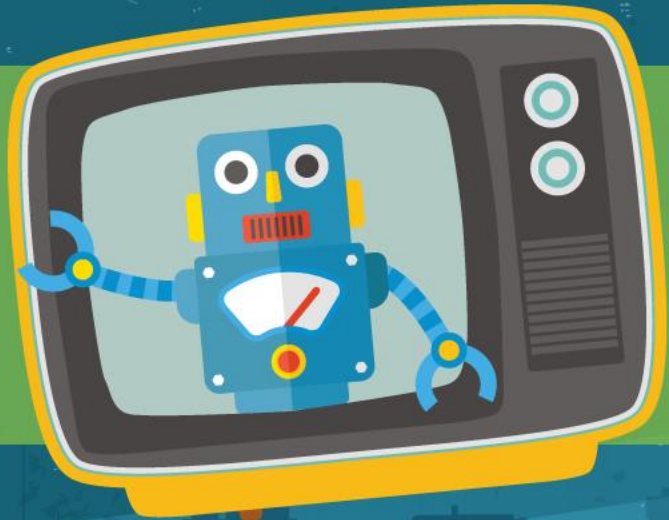Agents
Mehmet Kut - @mehmetkut
Cloud Solution Architect

AGENDA

- Agents
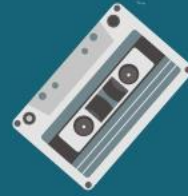 - Microsoft Hosted Agents
  - Self-hosted Agents
- Demo
- QA

AGENTS

MICROSOFT-HOSTED AGENTS

Microsoft-hosted Agents

- Hosted
- Hosted VS2017
- Hosted Linux
- Hosted macOS
- Hosted Ubuntu 1604
- Hosted Windows Container

How to choose Microsoft-hosted Agent?

If your development team uses...	Choose
Docker containers	Hosted Ubuntu 1604 or Hosted Windows Container
Development tools on Ubuntu	Hosted Ubuntu 1604
Development tools on macOS	Hosted macOS
.NET Core	Hosted Ubuntu 1604 or Hosted VS2017
Visual Studio 2017	Hosted VS2017
Visual Studio 2015	Hosted

Software

Software on Microsoft-hosted agents is updated once each month.

- Visual Studio 2017 on Windows Server 2016 (Hosted VS2017).
- Ubuntu 16.04 (Hosted Ubuntu 1604).
- Xcode 8, 9, and 10 on macOS 10.13 (Hosted macOS).
- Windows Server 1803 (Hosted Windows Container)
- Visual Studio 2015 on Windows Server 2012r2 (Hosted).

Capabilities & Limitations

- You can also add software during your build or release using tool installer tasks.

- Provide at least 10 GB of storage for your source and build outputs.

- Can run jobs for up to 360 minutes (6 hours).

- Run on Microsoft Azure general purpose virtual machines Standard_DS2_v2

- Run as an administrator on Windows and a passwordless sudo user on Linux
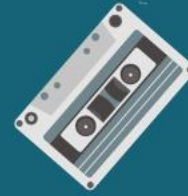
Microsoft-hosted agents do not offer

- The ability to log on.
- The ability to drop artifacts to a UNC file share.
- The ability to run XAML builds.
- Potential performance advantages that you might get by using self-hosted agents which might start and run builds faster.
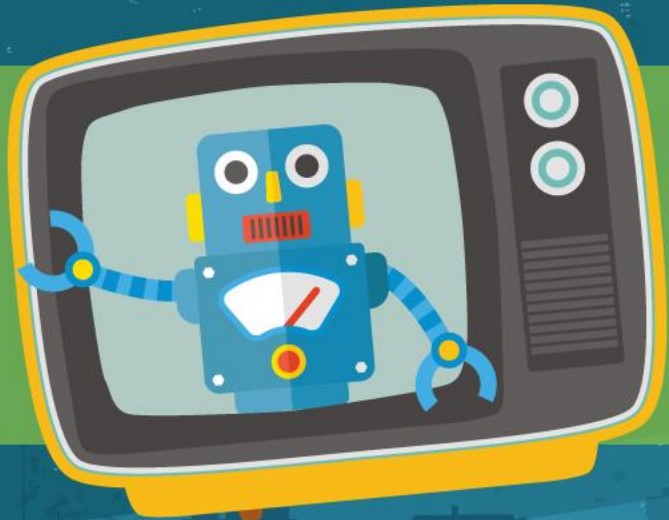
SELF-HOSTED AGENTS

Self-hosted Linux agents Prerequisites

- Agent version 2.125.0 or above
- **Supported Distributions and Versions**
  - Red Hat Enterprise Linux 7
  - CentOS 7
  - Oracle Linux 7
  - Fedora 25, Fedora 26
  - Debian 8.7 or later versions
  - Ubuntu 17.04, Ubuntu 16.04, Ubuntu 14.04
  - Linux Mint 18, Linux Mint 17
  - openSUSE 42.2 or later versions
  - SUSE Enterprise Linux (SLES) 12 SP2 or later versions

Self-hosted macOS agents Prerequisites
Agent version 2.125.0 or above (.Net Core 2.x)

- macOS Sierra (10.12) and later versions

Self-hosted macOS agents Prerequisites

- Agent version 2.124.0 or above (.Net Core 1.x)

- macOS Sierra (10.12)
- OS X El Capitan (10.11)
- OS X Yosemite (10.10)

Self-hosted Windows agents Prerequisites

Windows 10 and Windows Server 2016 (64-bit)

- No known system prerequisites are known at this time.

Windows 7 to Windows 8.1, Windows Server 2008 R2 SP1 to Windows Server 2012 R2 (64-bit)

- PowerShell 3.0 or higher
- .NET Framework x64 4.5 or higher

- **Visual Studio**
  - Even though not technically required by the agent, many build scenarios require Visual Studio installed to get all the tools. We recommend Visual Studio 2015 or later.
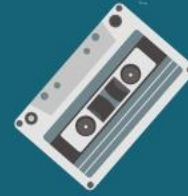
-

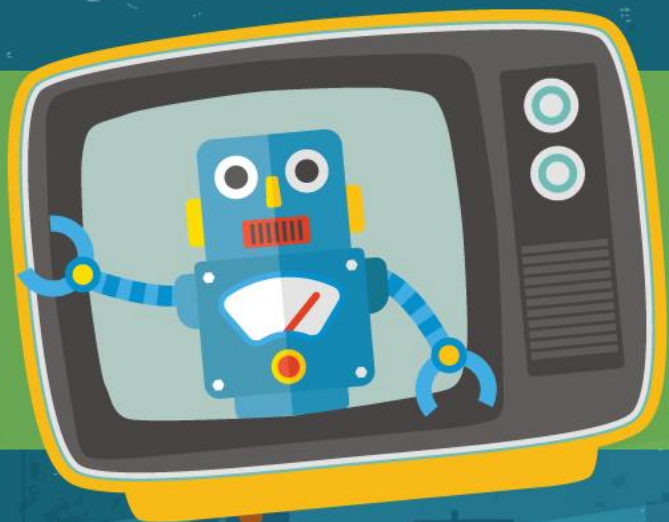NOTE: **DO NOT Use PowerShell ISE during Agent Configuration and Uninstall.**
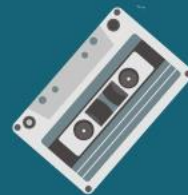
- **Because:** https://github.com/Microsoft/azure-pipelines-agent/issues/1266

-
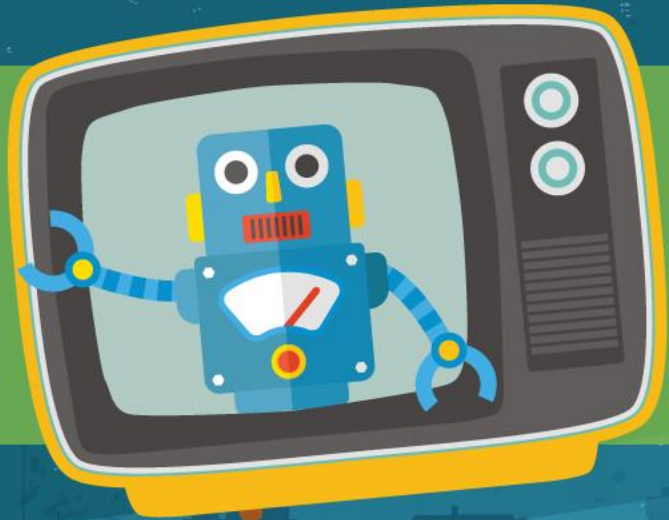
MICROSOFT-HOSTED AGENTS
VS
SELF-HOSTED AGENTS
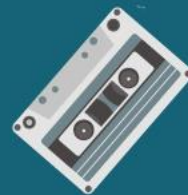
DEMO

Demo Architecture
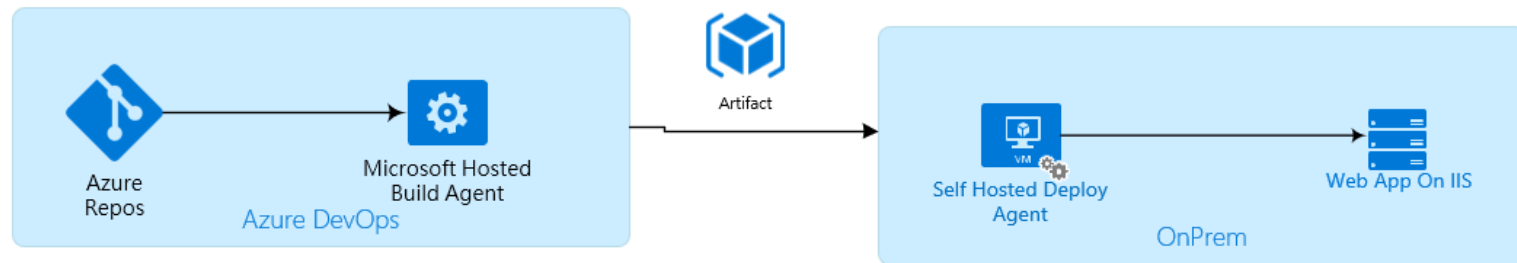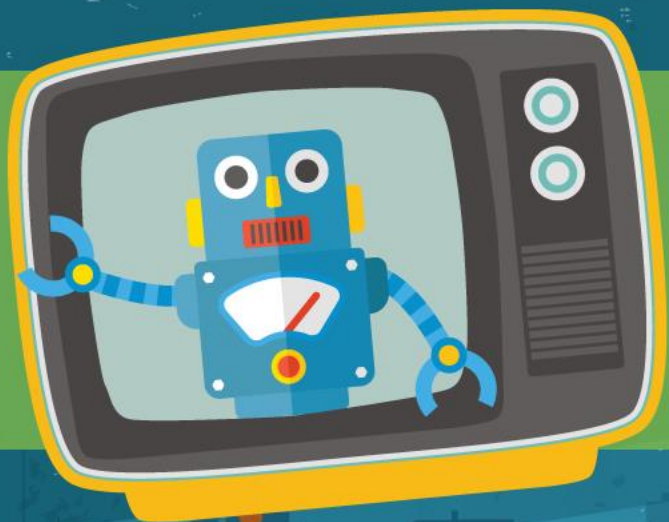
QA

References

Microsoft Docs

- https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/agents?view=vsts

Azure DevOps Docs

- https://docs.microsoft.com/en-us/azure/devops/?view=vsts

Azure Pipelines Agent

- https://github.com/Microsoft/azure-pipelines-agent

Azure DevOps Solutions

- https://azure.microsoft.com/en-us/solutions/devops/

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