Azure DevOps Self-Hosted Agent Setup Guide (Windows VM)

# VM Prerequisites

* + VM Size: Standard\_D4as\_v6 (4 vCPUs, 16 GB RAM)
  + OS: Windows Server 2019/2022 (recommended)
  + Disk: Minimum 30 GB (OS + Agent installation)
  + Networking: Allow outbound HTTPS (TCP 443) to dev.azure.com, \*.visualstudio.com
  + Ensure outbound access is not blocked by corporate firewall or proxy

# Software Requirements

* + Mandatory: .NET Framework 4.8, PowerShell 5.1+, Latest Windows Updates
  + Optional (Based on Pipelines): Visual Studio Build Tools, Node.js, Git, Python, Java JDK

# Azure DevOps Agent Installation Steps

* + Log in to the VM with Local Admin rights
  + Create directory: mkdir C:\azagent
  + Download agent from:

https://learn.microsoft.com/en-us/azure/devops/pipelines/agents/v2-windows

* + Extract zip file to C:\azagent
  + Configure agent using .\config.cmd with Azure DevOps URL and PAT token
  + Install as service: .\svc install && .\svc start

# Service Account Recommendation

* + Run as Network Service or dedicated domain account with read/write permissions

# Verify Agent in Azure DevOps

* + Check under Project Settings  Agent Pools  [Pool Name], status should be Online

# Official Microsoft Documentation

* + Windows Agent Install Guide:

https://learn.microsoft.com/en-us/azure/devops/pipelines/agents/windows-agent

* + Networking Requirements:

https://learn.microsoft.com/en-us/azure/devops/organizations/security/allow-list-ip-url