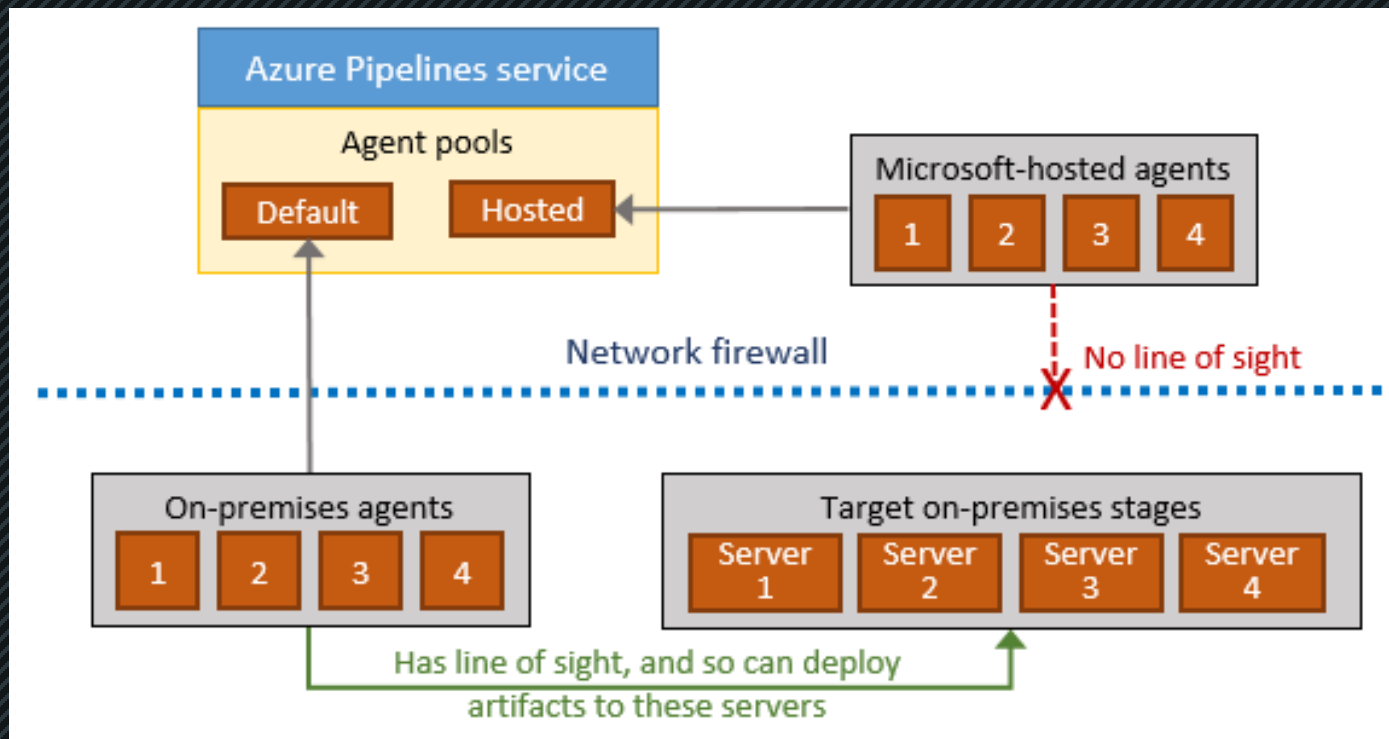
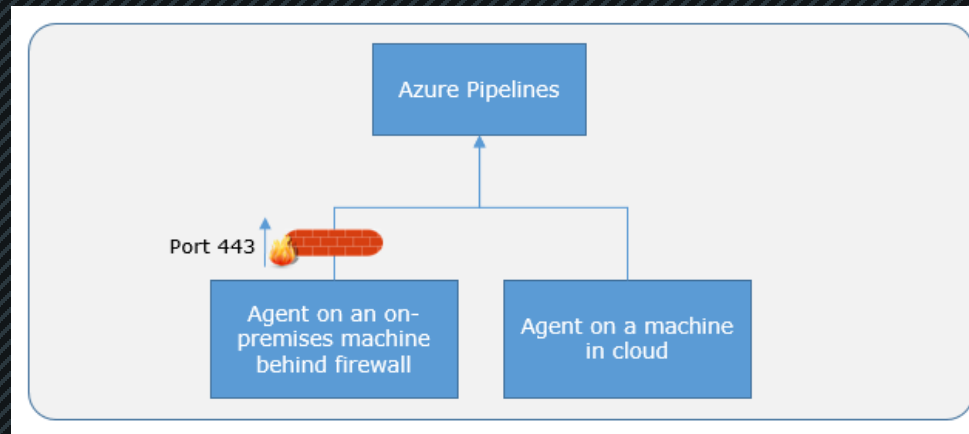




DevOps on Premise Self-Hosted Agent

Agent Pools



Agent Pools

- Project Settings -> Agent Pools

The screenshot shows the 'Project Settings' page in Azure DevOps, with the 'Agent pools' section selected in the left-hand navigation menu. The main content area displays a table of agent pools. The table has three columns: 'Name', 'Queued jobs', and 'Running jobs'. The 'Agent pools' section is highlighted in the left sidebar. The table lists several agent pools, including 'Azure Pipelines', 'COMS-TEST', 'DAP_IBMDC_AGENT', 'Default', 'DevEnablementPool', and 'Hosted Ubuntu 1604'. The 'Running jobs' column shows the number of jobs currently running for each pool.

Name	Queued jobs	Running jobs
Azure Pipelines Azure Pipelines		14
COMS-TEST COMS-TEST		1
DAP_IBMDC_AGENT DAP_IBMDC_AGENT		
Default Default		
DevEnablementPool DevEnablementPool		1
Hosted Ubuntu 1604 Azure Pipelines		

Agent Pools

○ Demo Create Pool + Agent

Get the agent

Windows

macOS

Linux

x64

x86

System prerequisites

Configure your account

Configure your account by following the steps outlined [here](#).

Download the agent

Download

Create the agent

```
PS C:\> mkdir agent ; cd agent
PS C:\agent> Add-Type -AssemblyName System.IO.Compression.FileSystem ;
[System.IO.Compression.ZipFile]::ExtractToDirectory("$HOME\Downloads\vsts-agent-win-x64-2.194.0.zip", "$PWD")
```

Configure the agent [Detailed instructions](#)

```
PS C:\agent> .\config.cmd
```

Optionally run the agent interactively

If you didn't run as a service above:

```
PS C:\agent> .\run.cmd
```

That's it!

[More Information](#)

```
PS C:\agent> .\config.cmd --proxyurl http://10.0.11.1:9400
```

Parallel Jobs

- Parallel jobs -> 1 free for Private Repo in ADO (Azure DevOps)
- GitHub for Organizations allows parallel jobs but 2000 min in Linux per month

GitHub

OS	Min x
Linux	1
macOS	10
Windows	2

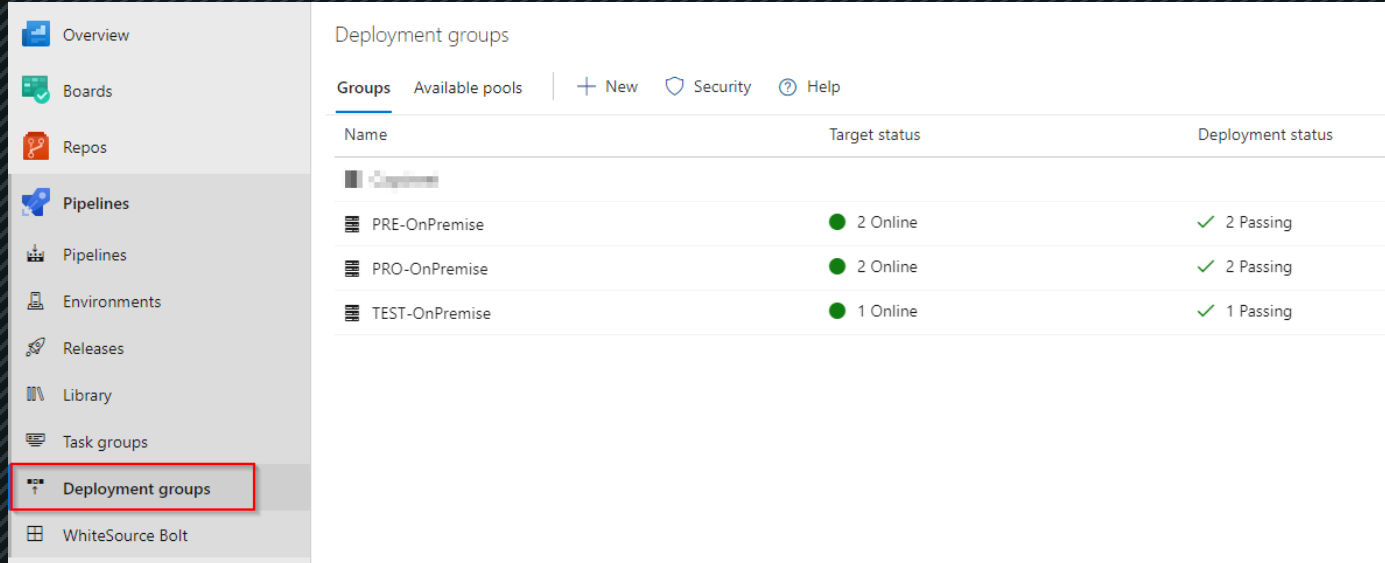
Azure DevOps

The screenshot displays the 'Project Settings' page in Azure DevOps. The left sidebar contains a navigation menu with categories: General, Boards, Pipelines, and Settings. The 'Parallel jobs' option under the 'Settings' category is highlighted with a red box. The main content area is divided into two sections: 'Private projects' and 'Public projects'. Each section lists job types and their corresponding parallel job limits. In the 'Private projects' section, the 'Free parallel jobs' limit is highlighted with a red box and set to 1. In the 'Public projects' section, the 'Free parallel jobs' limit is set to 10.

Project Type	Job Type	Parallel Jobs Limit
Private projects	Microsoft-hosted	50
	Self-hosted	74
	Free parallel jobs	1
	Visual Studio Enterprise subscribers	73
Public projects	Microsoft-hosted	60
	Self-hosted	Unlimited
	Free parallel jobs	10
	Visual Studio Enterprise subscribers	73

Deployment Groups

- Deployment Groups -> Demo Agent part of DG
- Demo show Targets, Summary, tags and register a new one
(1 folder per agent, PAT(just for register), Manage DG multiple projects)



The screenshot shows the Visual Studio Code interface with the 'Deployment groups' section selected in the left sidebar. The main panel displays a table of deployment groups.

Name	Target status	Deployment status
PRE-OnPremise	2 Online	2 Passing
PRO-OnPremise	2 Online	2 Passing
TEST-OnPremise	1 Online	1 Passing

```
PS C:\Agent_Deployment>.\config.cmd --proxyurl http://10.0.11.1:9400 --deploymentgroup --deploymentgroupname "<YourGroup-OnPremise>" --agent $env:COMPUTERNAME --runasservice --work '_work' --url 'https://<company>.visualstudio.com/' --projectname '<YourProject Name>' --auth PAT --token <YourToken>;
```

Pipeline and SQL DB

1. DB Snapshot (dbatools – PS Module)
2. DB Project (SSDT or Migrations), static data, JOBs, Security, etc...

Thank you

Q & A

Links

1. Azure Pipelines agents
<https://bit.ly/3mKyng3>
2. MS SQL Server Data-Tier Application Framework (17.1 DacFx)
<https://www.microsoft.com/en-us/download/details.aspx?id=55255>
3. dbatools – PS Module automate SQL task
<https://dbatools.io/offline/>
4. Demo Code & Slides
<https://github.com/antonio-bravo/CoP>