

Mastering Azure using Cloud Shell, PowerShell and Bash!

@ThomasMaurer www.thomasmaurer.ch





Many thanks to our sponsors:

















Thomas Maurer

- Senior PM Azure Hybrid @Microsoft
- Former Microsoft MVP
- Blogger: <u>www.thomasmaurer.ch</u>
- PowerShell Enthusiast



Tools for Managing Azure

Management tools

Azure Portal

Azure CLI

Azure PowerShell

Azure Cloud Shell

Automation tools

ARM templates

Azure Automation

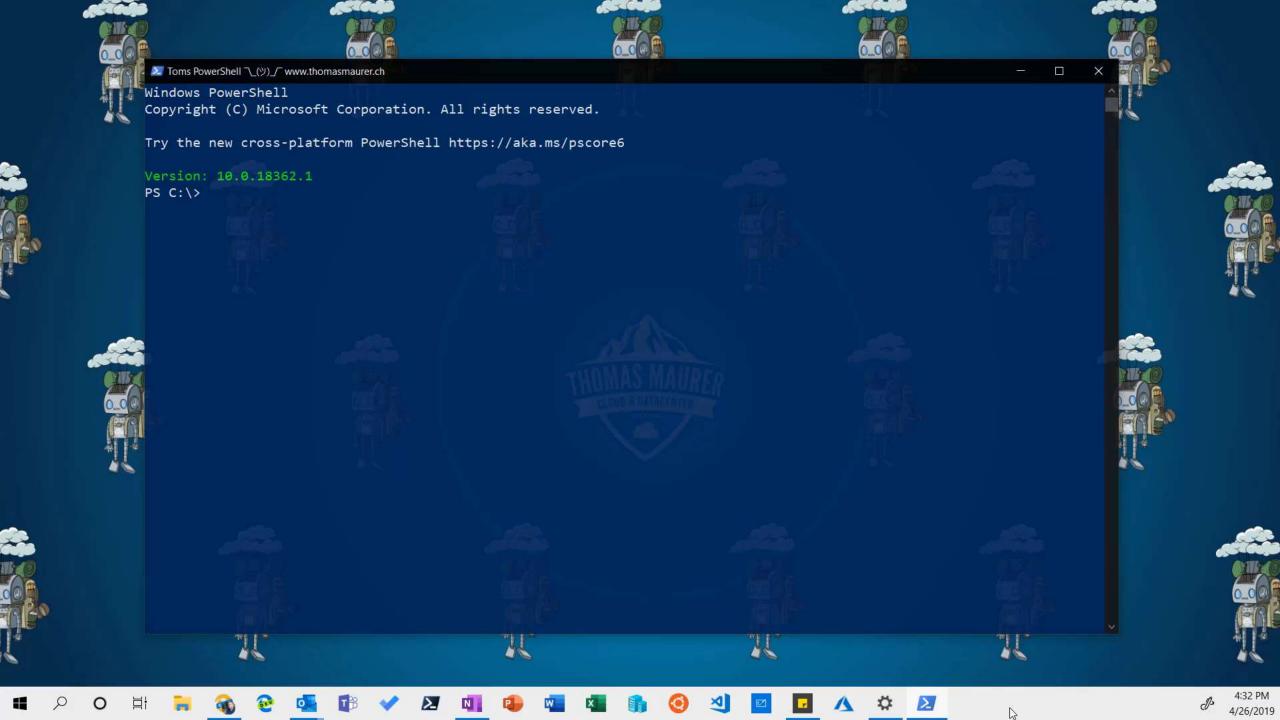
Azure Functions











A primer on automation

Why

Save time

Lower overhead cost

Consistency

When

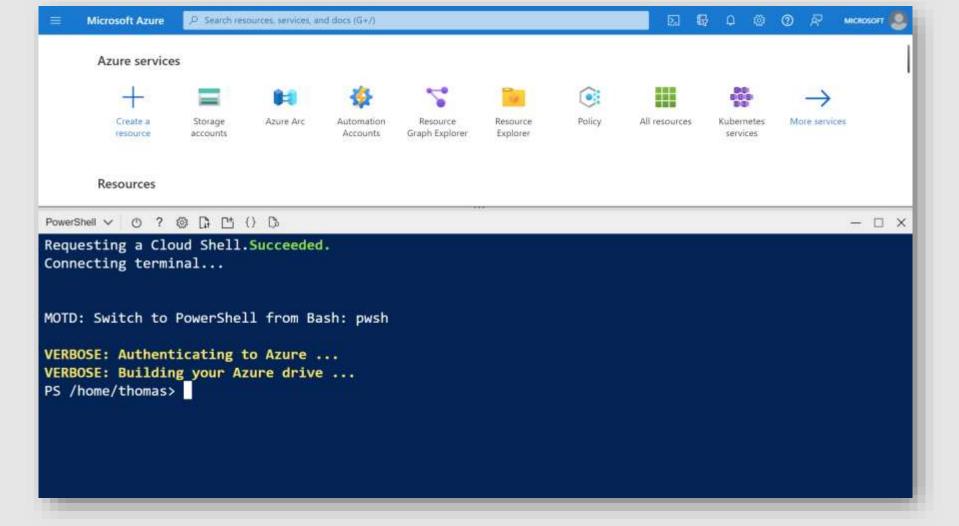
Resources at scale

Configuration

Orchestration

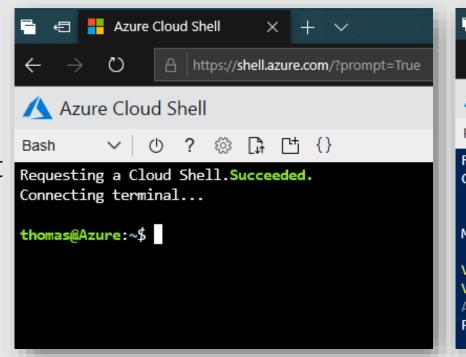


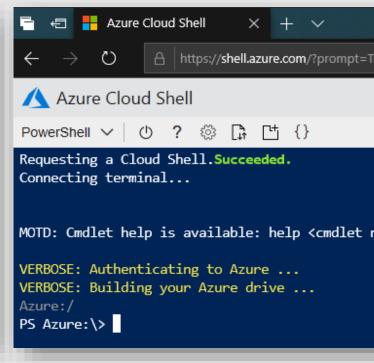
Cloud Shell



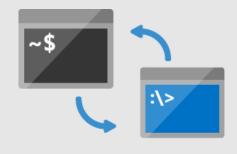
Azure Cloud Shell

Authenticated access
Bash & PowerShell
Private & secure environment
Common languages & tools







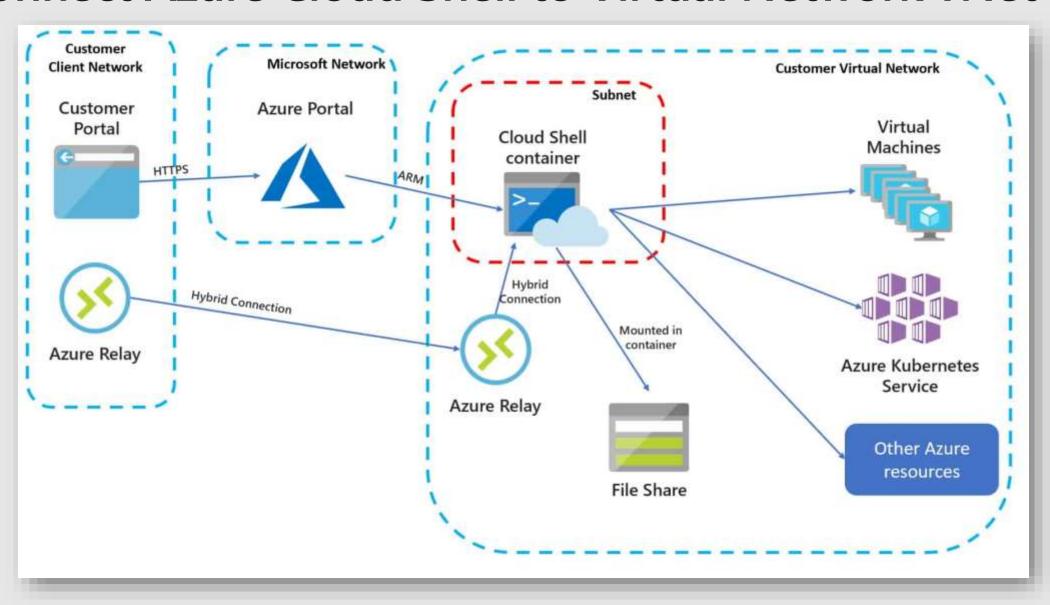






Exploring the Azure Cloud Shell

Connect Azure Cloud Shell to Virtual Network vNet



Multiple Experiences

Azure portal

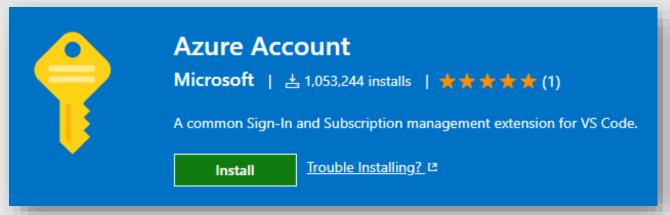
Shell.azure.com

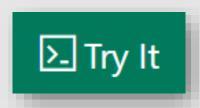
Azure Extension in Visual Studio Code

Windows Terminal

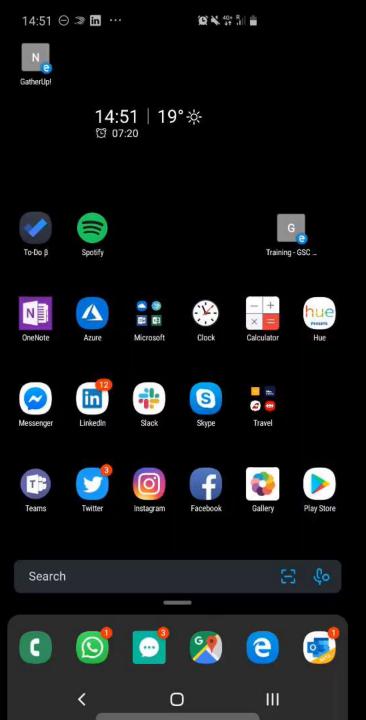
"Try It" integration in docs.microsoft.com

Azure Mobile App









Az Predictor

Invoke Command PowerShell and Azure CLI

PowerShell:

Set-PSReadLineOption -PredictionViewStyle ListView

Azure CLI:

Set-PSReadLineOption -PredictionViewStyle InlineView

How to Run Scripts in your Azure VM using Run Command

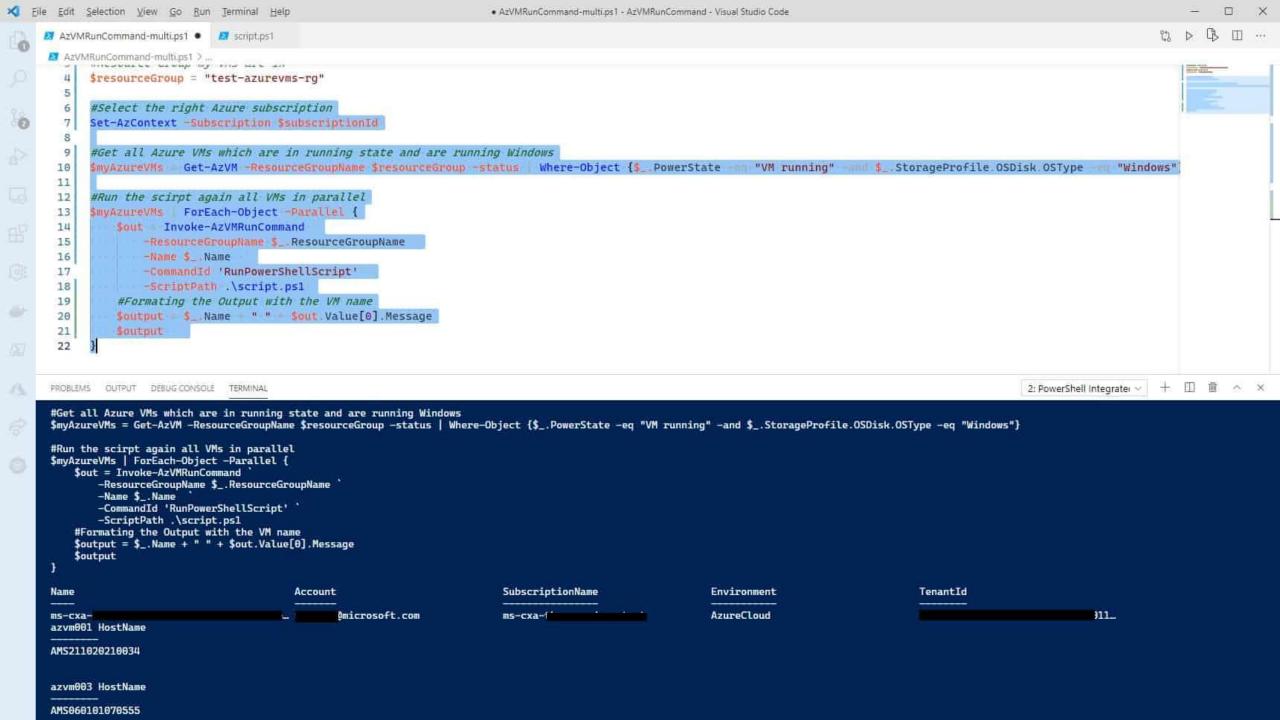
Invoke Command PowerShell and Azure CLI

PowerShell:

```
Invoke-AzVMRunCommand -ResourceGroupName 'TT-AZUREVMS-
RG' -Name 'ttazurewinvm01' -CommandId
'RunPowerShellScript' -ScriptPath
'C:\Users\thoma\script.ps1'
```

Azure CLI:

az vm run-command invoke -g myResourceGroup -n myVm -command-id RunShellScript --scripts "sudo apt-get update
&& sudo apt-get install -y nginx"



SSH to Arc enabled Servers

SSH Remoting with Azure Arc

```
az ssh arc --resource-group tt-azurearcvms-rg --name ttubuntu02 --local-user thomas
```

PowerShell in Windows Admin Center in the Azure Portal

Want to learn more?

Blogs and Links

aka.ms/azops-cloudshell



MASTERING AZURE WITH CLOUD SHELL

POSTED IN CLOUD, MICROSOFT, MICROSOFT AZURE, POWERSHELL, VISUAL STUDIO, VISUAL STUDIO CODE, WORK

There are multiple ways to interact and manage resources in Microsoft Azure. You can use the Azure Poor command line tools like the Azure PowerShell module or the Azure CLI, which you can install on your local machine. However, to set up a cloud management workstation for administrators and developers be quite a lot of work. Especially if you have multiple machines, keeping consistency between these machines can be challenging. Another challenge is keeping the environment secure and all the tools up date. This any many more things are addressed by the Cloud Shell.

Cloud Shell is not brand new, Microsoft announced Cloud Shell at Build 2017. This blog post is about he you can master Azure with Cloud Shell and to give you an overview about the possibilities of Cloud Shell

What is Cloud Shell







15 minutes





Demos

We love Demos!





