



Demystify Azure Cloud Shell

The potential of a Cloud-based Shell

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Logins...
Tools...
Different versions...
Scripts...

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Downloads

Get the SDKs and command-line tools you need

[Learn more about Azure Developer Tools ▶](#)

SDKs

Download and install language-specific SDKs and tools for your platform of choice.

.NET	Java	Node.js	PHP
Visual Studio 2017	Azure SDK for Java	Windows install	Windows install
Visual Studio 2017 Service Fabric SDK	Documentation	Mac install	Mac install
Visual Studio 2015		Linux install	Linux install
Service Fabric SDK and Tools for Visual Studio 2015		Language Understanding Intelligent Service Node JS SDK	Documentation

We do not want this

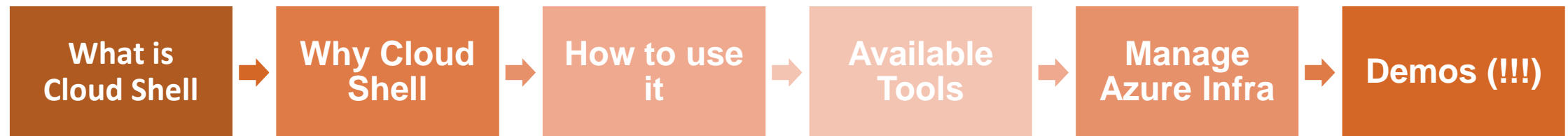


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Likes Cloud, Automation & Security



Flow of the session



Requirements



Azure
Subscription



Browser,
Extension, App



Storage Account



Shell skills

Browser Support



Chrome



Edge



Firefox



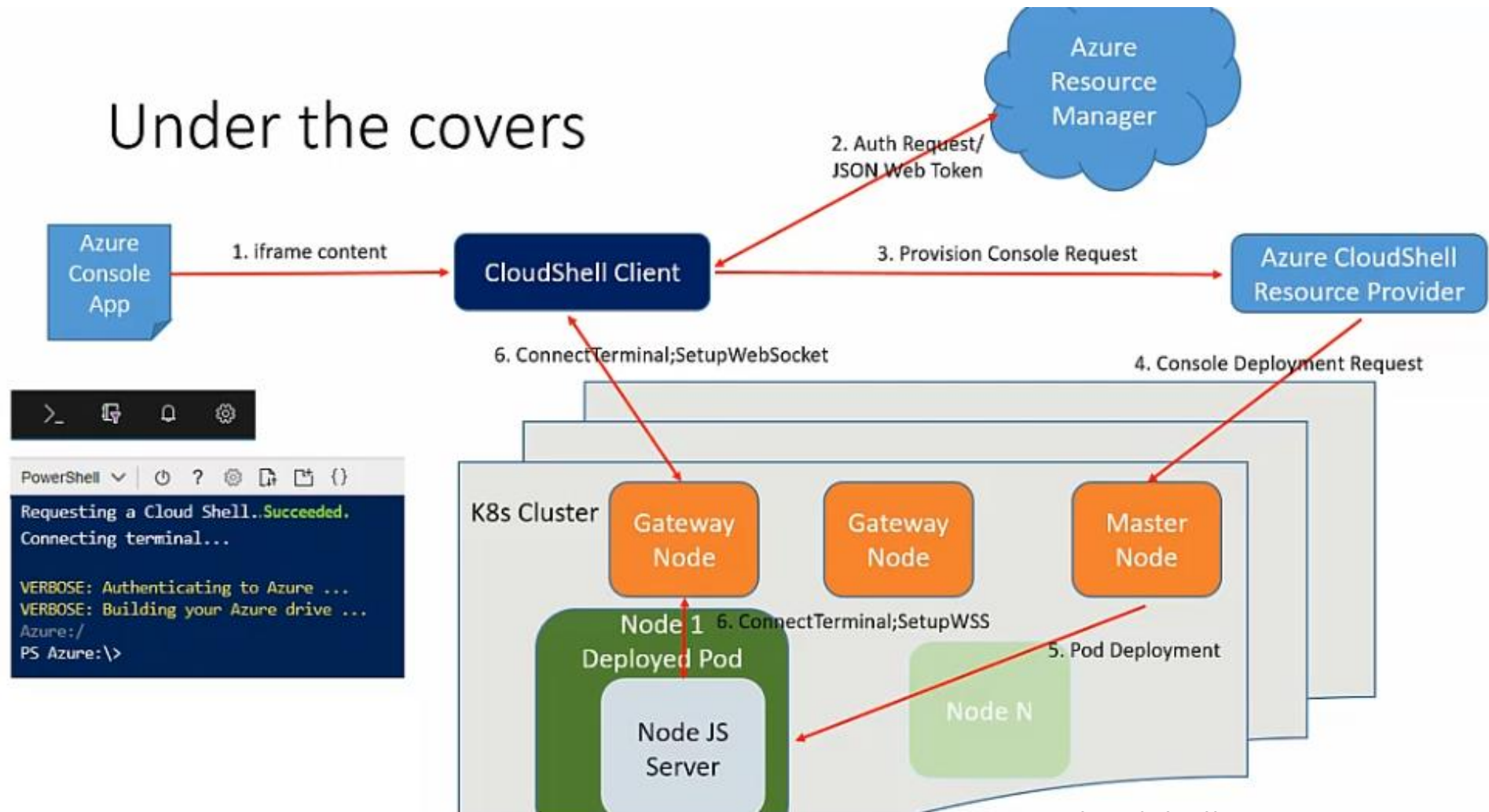
Safari



IE

Components of Cloud Shell

Under the covers





Cloud Shell Connectivity

Pricing?

Cloud Shell pricing

- ✓ **No** upfront cost
- ✓ **No** termination fees
- ✓ Pay only for what you need

User Experience



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Getting started with Cloud Shell

Demo Summary

- How to connect to Azure Cloud Shell
- Interface explained
- Configuration options
- Send feedback — Make Cloud Shell better



Language Support

Language	Version
.NET Core	2.0.0
Go	1.9
Java	1.8
Node.js	8.9.4
PowerShell	6.1.0
Python	2.7 and 3.5 (default)

Linux tools	bash
	zsh
	sh
	tmux
	dig
Azure tools	Azure CLI and Azure classic CLI
	AzCopy
	Service Fabric CLI
	Batch Shipyard
	blobxfer
Text editors	vim
	nano
	emacs
	code
Source control	git
Build tools	make
	maven
	npm
	pip

Containers	Docker Machine
	Kubectl
	Helm
	DC/OS CLI
Databases	MySQL client
	PostgreSql client
	sqlcmd Utility
	mssql-scripter
Other	iPython Client
	Cloud Foundry CLI
	Terraform
	Ansible
	Chef InSpec

Available tools

demo



Available tools and editors

Demo Summary

- Listed available deployment tools
- Went through available PowerShell modules




```
> azure: open
```

Azure: Open Bash in Cloud Shell

Azure: Open PowerShell in Cloud Shell

Run Cloud Shell from VSCode



Azure Account 0.6.2

A common Sign-In and Subscription

Microsoft

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Cloud Shell in VSCode

Demo Summary

- Open Vscode
- Show



CloudDrive in Cloud Shell

Command

`clouddrive mount` :Mount an Azure file share to Cloud Shell.

Mount enables mounting and associating an Azure file share to Cloud Shell. Cloud Shell will automatically attach this file share on each session.

Cloud Shell persists files with both methods below:

1. Create a disk image of your \$HOME directory to persist files within Cloud Shell. This disk image is saved in your specified file share as 'acc_jcjbrasser' and is accessible via `\\<storageaccount>.file.storage.windows.net/<fileshare>/.cloudconsole`.
2. Mount specified file share as 'clouddrive' in \$HOME for file sharing. `/home/jcjbrasser/clouddrive` maps to `\\<storageaccount>.file.storage.windows.net/<fileshare>/.cloudconsole`.

Arguments

<code>-s</code>	<code>--subscription id</code>	[Required]:Subscription ID or name.
<code>-g</code>	<code>--resource-group group</code>	[Required]:Resource group name.
<code>-n</code>	<code>--storage-account name</code>	[Required]:Storage account name.
<code>-f</code>	<code>--file-share name</code>	[Required]:File share name.
<code>-d</code>	<code>--disk-size size</code>	Disk size in GB. (default 5)
<code>-F</code>	<code>--force</code>	Skip warning prompts.
<code>-?</code>	<code>-h</code> <code>--help</code>	Shows this usage text.

Cloud Shell machines exist in the following regions:

Area	Region
Americas	East US, South Central US, West US
Europe	North Europe, West Europe
Asia Pacific	India Central, Southeast Asia

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Working with Cloud Drive

Demo Summary

- Worked with CloudDrive from bash and pwsh
- Copy and moved files
- Mounted in Windows
- Showed in Azure Portal
- Explained the disk image



Cloud Shell timed out

Cloud Shell timed out

Cloud Shell has been idle for 20 minutes or you have manually exited.

Would you like to reconnect?

Reconnect

Quit

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Azure Scoping in Cloud Shell

Demo Summary

- Navigate through Azure as-if it is a filesystem
- By entering a 'folder', you set the scope
- Based on



Windows PowerShell

Windows PowerShell 1.0 English-Language Installation Package for Windows Server 2003 (KB926139)

Important! Selecting a language below will dynamically change the complete page content to that language.

Language: English

[Download](#)

Microsoft Windows® PowerShell is a new command-line shell and scripting language designed for system administration and automation. Built on the .NET Framework, Windows PowerShell enables IT professionals and developers control and automate the administration of Windows and applications.

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AzureRM on PowerShell 5.1

Demo Summary

- Interactive login prompt
- No default scoping
- Only fully functional on Windows PowerShell



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Launching Cloud Shell from [docs.Microsoft.com](https://docs.microsoft.com)

Demo Summary

- Configured git
- Committed code
- Push to github



Key Takeaways

Available

Thousands of docker containers waiting for you

All tools

All your deployment and editing tools available in your shell

Always up-to-date

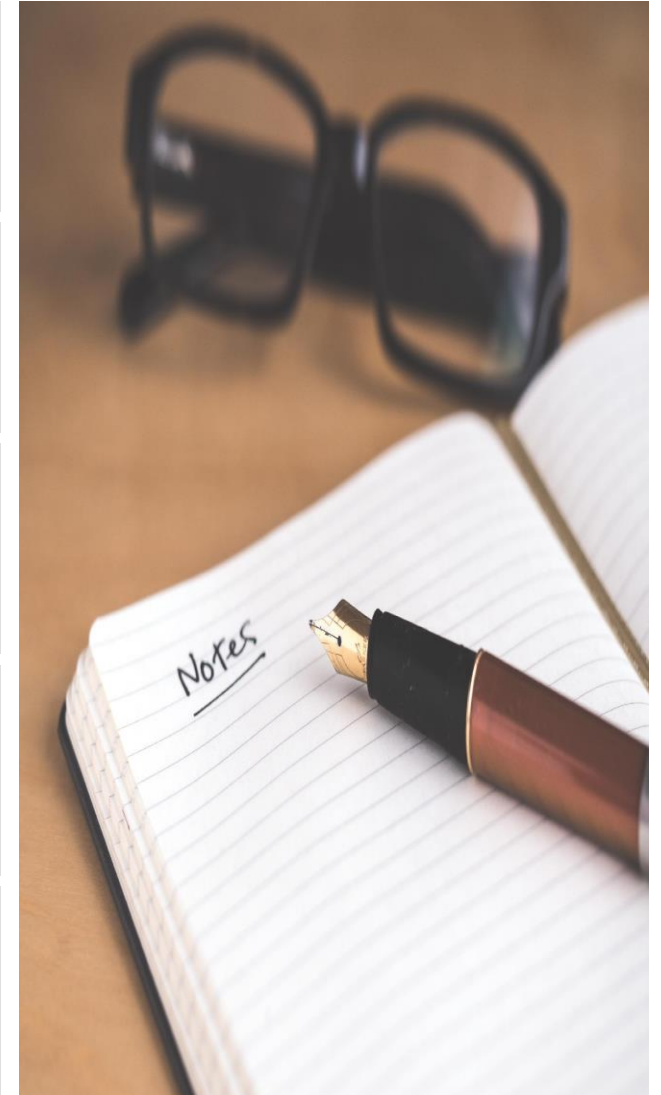
No manual update management of your favorite tools

CloudDrive

Persistent data is shared on your Azure Storage account

Platform Agnostic

Use Azure Cloud Shell from any platform, just consume Cloud Shell when needed



Questions?

