

PowerShell: Getting Started

Introduction to PowerShell



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Course Breakdown

Intro to PowerShell

PowerShell Basics

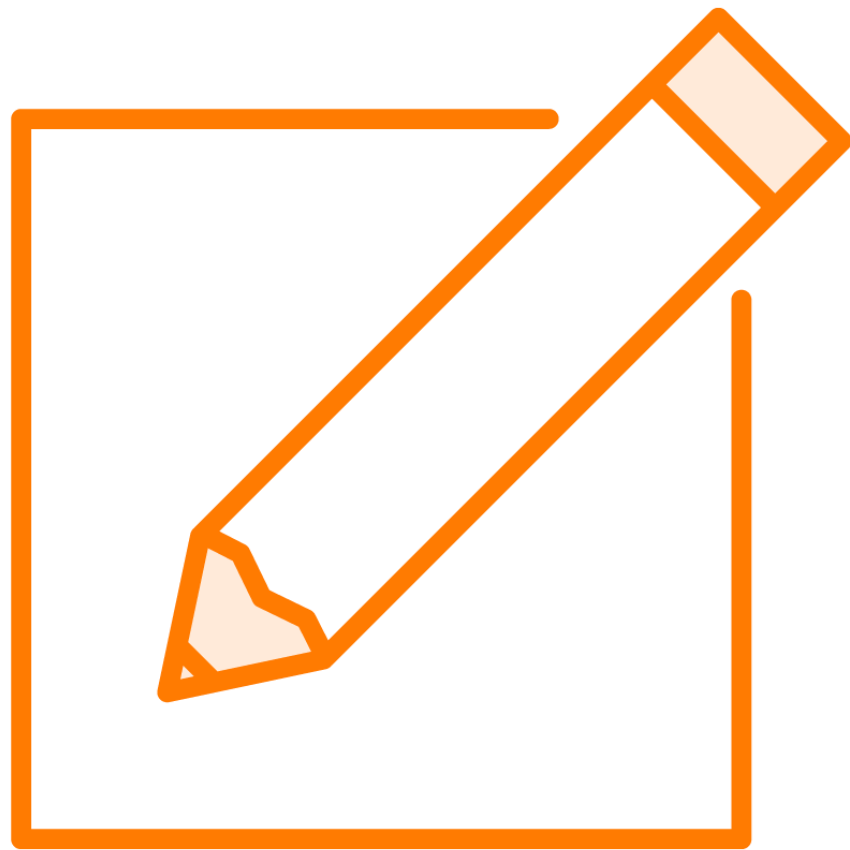
**Getting Started in
the Shell**

**Working in the
Pipeline**

**Beyond the
PowerShell Basics**



What You Need to Follow Along



Windows client (for Windows PowerShell demos)

PowerShell 7.x

Course exercise files

Time to learn!



Exercise files

PowerShell: Getting Started

by Michael Bender

This is an introductory course on PowerShell and how to use it for basic IT operations support.

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Course Breakdown

- Introduction to PowerShell
- PowerShell Basics
- Gathering Information with PowerShell
- Remoting with PowerShell
- Building a User Inventory Script with PowerShell
- Next Steps with PowerShell

Who Is This Course For?

[Table of contents](#) [Description](#) [Transcript](#) [Exercise files](#) [Discussion](#) [Learning Check](#) [Related Courses](#)

This course is part of:  Windows PowerShell: Essentials Path [Expand All](#)

▶ Course Overview	✓	🔖	1m 29s	▼
▶ Introduction to PowerShell	✓	🔖	26m 30s	▼
▶ PowerShell Basics		🔖	37m 58s	▼
▶ Gathering Information with PowerShell		🔖	35m 51s	▼
▶ Remoting with PowerShell		🔖	29m 21s	▼
▶ Building a User Inventory Script with PowerShell	✓	🔖	45m 16s	▼
? ▶ Next Steps with PowerShell		🔖	7m 41s	▼



Exercise files

The screenshot shows the course page for "PowerShell: Getting Started" by Michael Bender. The page features a dark background with a woman working on a laptop. The main title "PowerShell: Getting Started" is prominently displayed at the top. Below the title, the author's name "by Michael Bender" is shown, followed by a brief description: "This is an introductory course on PowerShell and how to use it for basic IT operations support." A blue "Resume Course" button is visible. Below this, there are four icons with labels: "Bookmark", "Add to Channel", "Download Course", and "Schedule Reminder". A horizontal navigation bar contains tabs for "Table of contents", "Description", "Transcript", "Exercise files" (which is highlighted), "Discussion", "Learning Check", and "Related". Below the navigation bar, a paragraph explains the purpose of the exercise files: "These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer." A blue "Download exercise files" button is highlighted with a red rectangular border. On the right side of the page, a "Course Breakdown" section lists various topics, and a "Who Is This Course For?" section shows silhouettes of people. A sidebar on the left contains navigation icons for home, search, and other functions. A question mark icon is located in the bottom left corner, and a play button icon is in the bottom right corner.

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These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer.

[Download exercise files](#)

What is PowerShell?



A Management Execution Engine



PowerShell



Command-line shell



Scripting language



Automation platform



Configuration management



Why You Need to Know PowerShell

Baked into Microsoft Tools

Automation

Multi-platform

Better than a GUI

Certification

Everybody is using it



Using PowerShell to report on stopped services

- Get-service
- Where-object
- Select-object



Installing PowerShell 7.x



Configuring Windows PowerShell and PowerShell 7



Configuring Windows Terminal



Windows PowerShell

Based on .NET standard

Built into Windows

Windows only

Feature complete

Full set of Windows PowerShell commands



PowerShell 7.x

Based on .NET Core

Download from GitHub

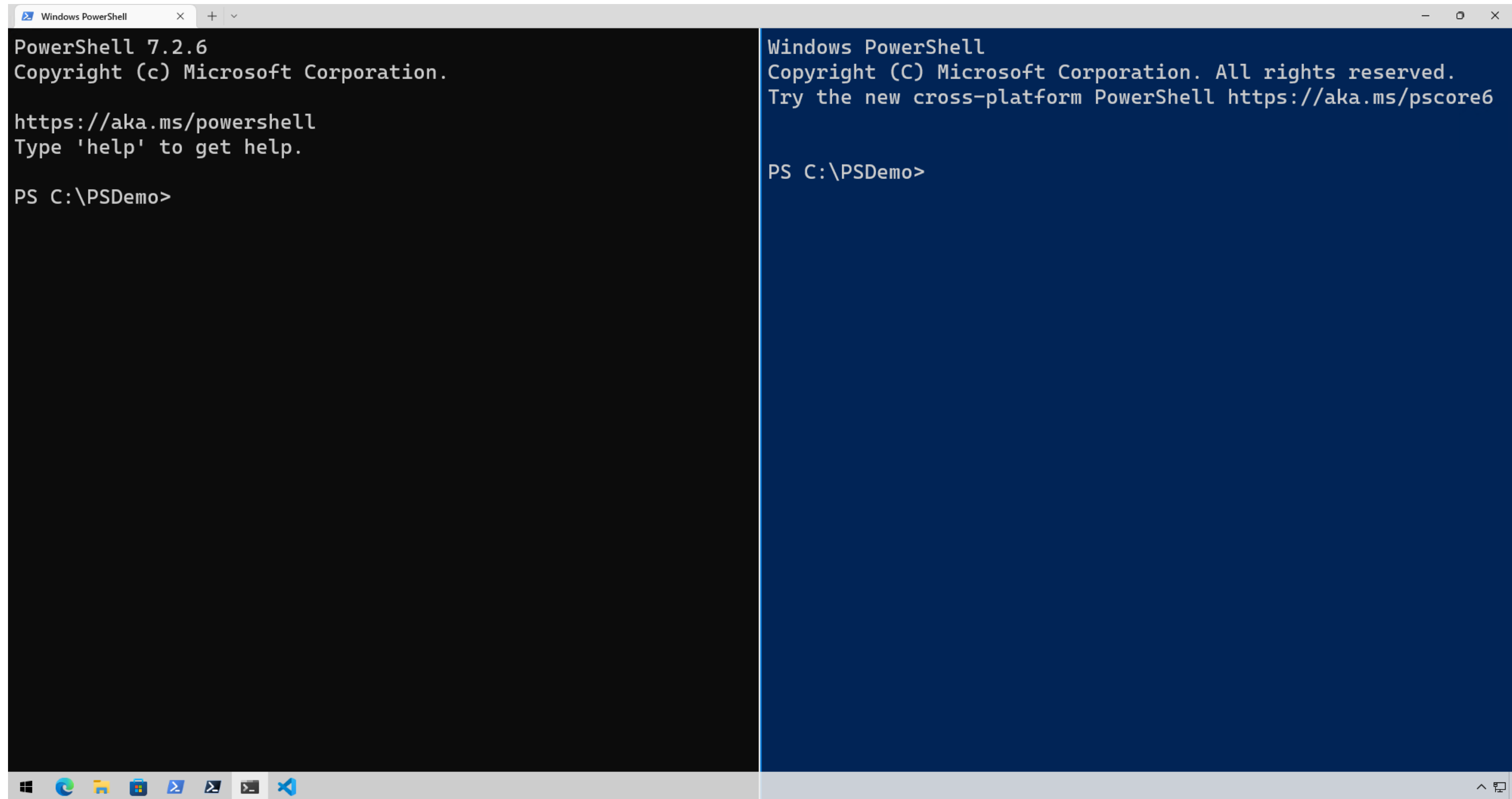
Runs on Windows, Linux, and Mac OS

Open-source development

Subset of Windows PowerShell commands



Windows Terminal



Visual Studio Code + PowerShell extension

The screenshot displays the Visual Studio Code editor with the PowerShell extension installed. The Explorer sidebar on the left shows a project named 'PSCOURSE' containing a file 'PSDemo.ps1'. The main editor window shows the content of 'PSDemo.ps1' with the following code:

```
1 #This is a PowerShell Demo
2
3 Get-Service | Where-Object Status -EQ "Stopped"
4
```

The bottom panel shows the 'TERMINAL' tab, which displays the output of the PowerShell command. The output is a table of services that are currently stopped:

Status	Name	DisplayName
Stopped	AarSvc_3c93030	Agent Activation Runtime_3c93030
Stopped	AJRouter	AllJoyn Router Service
Stopped	ALG	Application Layer Gateway Service
Stopped	AppIDSvc	Application Identity
Stopped	AppMgmt	Application Management

Below this, the terminal shows the command being executed:

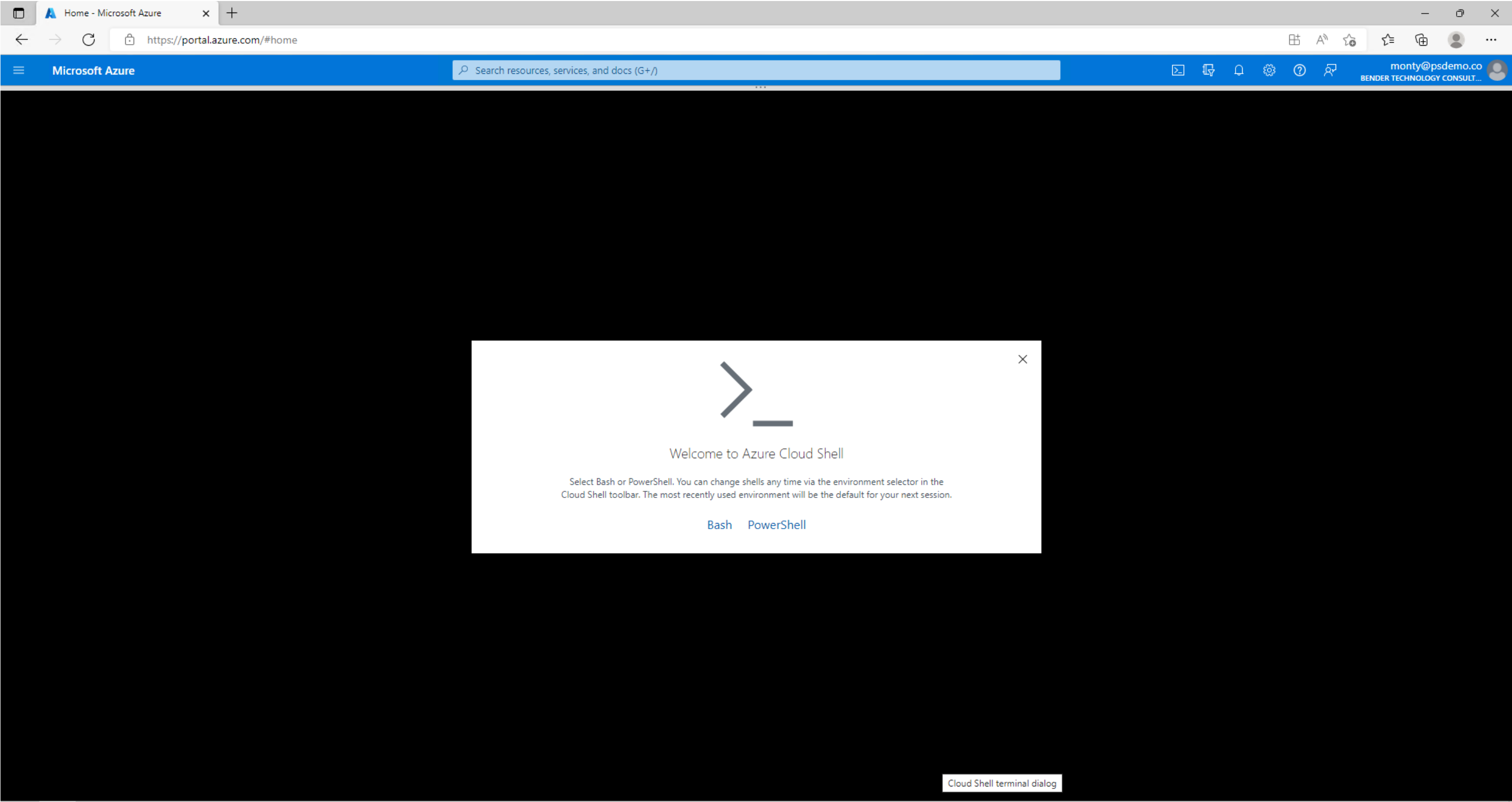
```
PS C:\PSCourse> .\PSDemo.ps1
```

And then another table of services, including those that are stopped:

Status	Name	DisplayName
Stopped	AarSvc_3c93030	Agent Activation Runtime_3c93030
Stopped	AJRouter	AllJoyn Router Service
Stopped	ALG	Application Layer Gateway Service
Stopped	AppIDSvc	Application Identity
Stopped	AppMgmt	Application Management
Stopped	AppReadiness	App Readiness
Stopped	AppVClient	Microsoft App-V Client
Stopped	AssignedAccessMan...	AssignedAccessManager Service
Stopped	autotimesvc	Cellular Time
Stopped	AxInstSV	ActiveX Installer (AxInstSV)
Stopped	BcastDVRUserServi...	GameDVR and Broadcast User Service_3c...
Stopped	BDESVC	BitLocker Drive Encryption Service

The status bar at the bottom indicates the current position is 'Ln 3, Col 1 (47 selected)' and the file is encoded in 'UTF-8' with 'CRLF' line endings. The PowerShell extension icon is visible in the bottom right corner of the status bar.

Azure CloudShell



Up Next:

PowerShell Basics

