Use PowerShell Core on Linux to Automate Complex, Repetitive, and Time-Consuming Tasks

```
PS /home/aaronkilik> get-alias
CommandType
                Name
                                                                                 Source
                                                                      Version
Alias
                ? -> Where-Object
Alias
                % -> ForEach-Object
                cd -> Set-Location
Alias
Alias
                chdir -> Set-Location
                clc -> Clear-Content
Alias
Alias
                clear -> Clear-Host
                clhy -> Clear-History
Alias
Alias
                cli -> Clear-Item
Allas
                clp -> Clear · ItemProperty
Alias
                cls -> Clear-Host
                cly -> Clear-Variable
Alias
                cnsn -> Connect-PSSession
Alias
Alias
                copy -> Copy-Item
                cpi -> Copy-Item
Alias
                cvpa -> Convert-Path
Alias
                dbp -> Disable-PSBreakpoint
Alias
                del -> Remove-Item
```

Are you tired of spending countless hours on tedious and repetitive tasks? Do you wish there was a way to automate these tasks and save yourself valuable time and effort? Look no further! With PowerShell Core on Linux, you can now harness the power of automation and make your life easier.

The Rise of PowerShell Core

PowerShell, developed by Microsoft, has long been the go-to scripting language for Windows administrators. It provides a rich set of tools and commands that enable users to automate various tasks efficiently. However, until recently, PowerShell was limited to the Windows environment, making it inaccessible to Linux users.



PowerShell Core for Linux Administrators Cookbook: Use PowerShell Core 6.x on Linux to automate complex, repetitive, and time-consuming

tasks by Prashanth Jayaram(1st Edition, Kindle Edition)

★ ★ ★ ★ 5 out of 5

Language : English File size : 57297 KB Text-to-Speech : Enabled Screen Reader : Supported Enhanced typesetting: Enabled Print length : 568 pages



With the of PowerShell Core, a cross-platform version of PowerShell, Linux users can now take advantage of the same powerful automation capabilities that Windows users have enjoyed for years. PowerShell Core runs on top of the .NET Core framework and is compatible with Windows, macOS, and various Linux distributions.

Unleashing the Power of Automation

Imagine having the ability to automate complex and time-consuming tasks with just a few lines of code. PowerShell Core on Linux makes this a reality. Whether you need to perform system configuration, manage network resources, or handle data processing, PowerShell Core provides a vast array of cmdlets and modules to simplify your work.

One of the key advantages of PowerShell Core is its versatility. It allows you to interact with multiple systems and technologies, including cloud platforms, databases, and APIs. By leveraging PowerShell Core, you can streamline your workflows, eliminate manual errors, and boost productivity.

Getting Started with PowerShell Core on Linux

Getting started with PowerShell Core on Linux is easy. Simply download and install the appropriate package for your Linux distribution from the official PowerShell GitHub repository. Once installed, you can launch PowerShell Core by typing "pwsh" in your terminal.

```
File Edit View Search Terminal Help
maxt@ubuntu1-5
maxt#ubuntur-$
maxt#ubuntur-$ /opt/microsoft/powershell/6-preview/pwsh
PowerShell v6.1.0-preview.]
Copyright (c) Microsoft Corporation. All rights reserved.
https://aka.ms/pscore6-docs
Type 'help' to get help.
PS /home/maxt> PPSVermionTable
FSVersion
                                       6.1.0-preview.3
PSEdition
                                       Core
                                       v6.1.0-preview.)
GitCommitId
                                       Linux 4.15.0-23-generic #25-Obuntu SMF Wed May 23 18:02:16 UTC 2018
Plat form
                                       Unix
FSCompatibleVersions
                                       (1.0, 2.0, 3.0, 4.0...)
PSRemotingProtocolVermion
derializationVersion
WiManStackVersion
PS /bose/maxt> cat /etc/os-release
NAME="Ubuntu"
VERSION="18.04 LTS (Bionic Beaver)"
ID-uhuntu
ID LIKE-debian
PRETTY NAME="Ubuntu 18.04 LTS"
VERSION 10-"18.64"
NOME_URL="https://www.ubuntu.com/"
SUPPORT UNL="https://help.ubuntu.com/"
BUG REPORT UNL="https://bugs.launchpad.net/ubuntu/"
PRIVACY POLICY UNL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
VERSION_COMMEND=blonic
UNUNTU_COMMANE=blonic
   /home/maxt>
```

PowerShell Core provides an interactive shell where you can execute commands and scripts. You can also write scripts using any text editor and execute them using PowerShell Core.

Let's take a look at a simple example. Suppose you have a directory containing multiple log files that you need to analyze. Instead of manually opening each file and extracting the relevant information, you can use PowerShell Core to automate the entire process.

In this example, we use the "Get-ChildItem" cmdlet to retrieve a list of log files in a specific directory. We then iterate over each file and perform the necessary processing and analysis. The possibilities are endless when it comes to automating tasks using PowerShell Core.

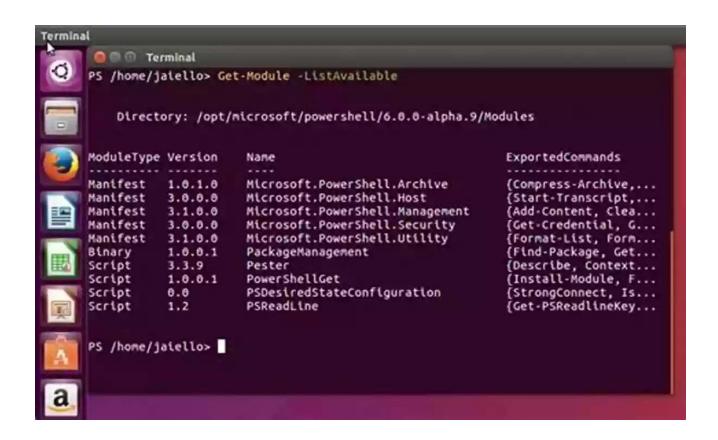
PowerShell Core in a DevOps Environment

PowerShell Core is not only useful for individual users but also for organizations that embrace DevOps methodologies. With its ability to automate tasks across diverse platforms and systems, PowerShell Core becomes an invaluable tool for continuous integration and deployment.

Imagine a scenario where you need to deploy your application to multiple servers on different platforms. Instead of manually logging into each server and performing the deployment steps, you can write a PowerShell Core script that handles the entire process for you. This not only saves time and effort but also minimizes the risk of human error.

PowerShell Core on Linux opens up a world of opportunities for users who want to automate complex, repetitive, and time-consuming tasks. Whether you are an individual looking to simplify your daily workflow or an organization striving for streamlined DevOps practices, PowerShell Core provides a powerful solution.

So, why spend hours on manual tasks when you can automate them using PowerShell Core? Embrace the power of automation, free up your time, and let PowerShell Core on Linux do the hard work for you!





PowerShell Core for Linux Administrators Cookbook: Use PowerShell Core 6.x on Linux to automate complex, repetitive, and time-consuming

tasks by Prashanth Jayaram(1st Edition, Kindle Edition)

★ ★ ★ ★ ★ 5 out of 5

Language : English

File size : 57297 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting: Enabled

**Text-to-Speech : Enabled

**Text-to-Speech : Supported

**Tex

Print length



: 568 pages

Over 150 recipes to leverage Microsoft's open source automation framework and command line shell

Key Features

- Work effectively on Windows, Linux, and macOS with PowerShell's objectoriented approach and capabilities
- Generate rich insights into your Linux workloads to help remediate any issues
- Enhance your native Linux capabilities with PowerShell Core 6.1

Book Description

PowerShell Core, the open source, cross-platform that is based on the open source, cross-platform .NET Core, is not a shell that came out by accident; it was intentionally created to be versatile and easy to learn at the same time. PowerShell Core enables automation on systems ranging from the Raspberry Pi to the cloud.

PowerShell Core for Linux Administrators Cookbook uses simple, real-world examples that teach you how to use PowerShell to effectively administer your environment. As you make your way through the book, you will cover interesting recipes on how PowerShell Core can be used to quickly automate complex, repetitive, and time-consuming tasks. In the concluding chapters, you will learn how to develop scripts to automate tasks that involve systems and enterprise management.

By the end of this book, you will have learned about the automation capabilities of PowerShell Core, including remote management using OpenSSH, cross-platform enterprise management, working with Docker containers, and managing SQL databases.

What you will learn

- Leverage the object model of the shell, which is based on .NET Core
- Administer computers locally as well as remotely using PowerShell over
 OpenSSH
- Get to grips with advanced concepts of PowerShell functions
- Use PowerShell for administration on the cloud
- Know the best practices pertaining to PowerShell scripts and functions
- Exploit the cross-platform capabilities of PowerShell to manage scheduled jobs, Docker containers and SQL Databases

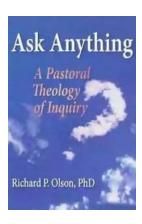
Who this book is for

PowerShell Core 6.1 Linux Administration Cookbook is for you if you are a system administrator who wants to learn to control and automate a Linux environment with PowerShell Core 6.1. Basic knowledge of PowerShell scripting is necessary. It is assumed that you already understand how an operating system is structured and how to use the command-line interface to work with the operating system.

Table of Contents

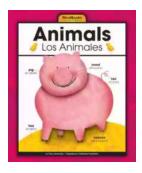
- 1. Introducing PowerShell Core
- 2. Preparing for Administration using PowerShell
- 3. First Steps in Administration using PowerShell
- 4. Passing data through pipelines
- 5. Using Variables and Objects
- 6. Working with Strings

- 7. Flow Control using Branches and Loops
- 8. Performing Calculations
- 9. Using Arrays and Hash Tables
- 10. Handling Files and Directories
- 11. Building Scripts and Functions
- 12. Advanced Concepts of Functions
- 13. Debugging and Error Handling
- 14. Enterprise Administration using PowerShell
- 15. PowerShell and Cloud Operations
- 16. Using PowerShell for SQL Database Management
- 17. Using PowerShell with Docker



The Secrets of Chaplaincy: Unveiling the Pastoral Theology of Inquiry Haworth

Chaplaincy is a field that encompasses deep empathy, understanding, and spirituality. It is a profession where individuals provide spiritual care and support to those in...



Animales Wordbooks: Libros de Palabras para los Amantes de los Animales

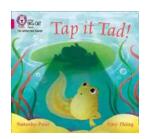
Si eres un amante de los animales como yo, entonces seguramente entenderás la fascinación que sentimos hacia estas increíbles criaturas. Ya sea que se trate de majestuosos...



Let's Learn Russian: Unlocking the Mysteries of the Cyrillic Script

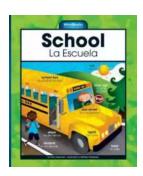
Are you ready to embark on a linguistic adventure? Have you ever been curious about the beautiful Russian language? Look no further - this article is your...





The Incredible Adventures of Tap It Tad: Collins Big Cat Phonics For Letters And Sounds

Welcome to the enchanting world of phonics where learning to read becomes a captivating journey! In this article, we will explore the marvelous educational resource,...



Schoolla Escuela Wordbookslibros De Palabras - Unlocking the Power of Words!

Growing up, one of the most significant milestones in a child's life is learning how to read. It opens up a whole new world of possibilities, imagination, and knowledge. A...



15 Exciting Fun Facts About Canada for Curious Kids

Canada, the second-largest country in the world, is famous for its stunning landscapes, diverse wildlife, and friendly people. As children, it's essential to...



What Did He Say? Unraveling the Mystery Behind His Words

Have you ever found yourself struggling to understand what someone really meant when they said something? Communication can often be clouded with ambiguity, leaving us...



A Delicious Journey through Foodla Comida Wordbookslibros De Palabras

Welcome to the world of Foodla Comida Wordbookslibros De Palabras, where colorful illustrations and engaging words come together to create a delightful learning...