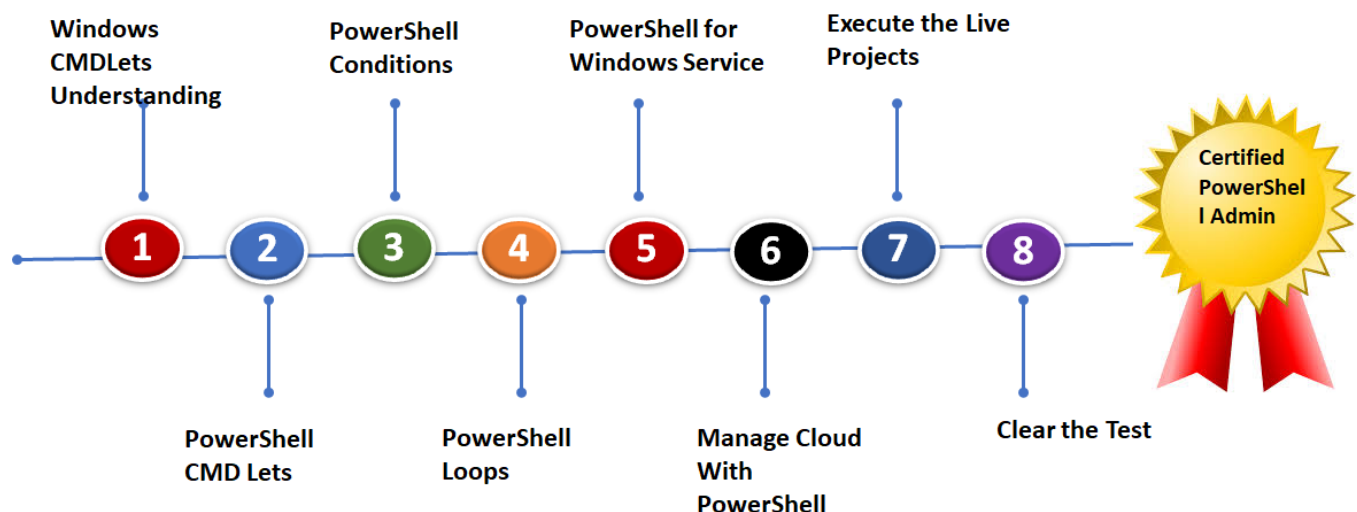


**Windows Fundamental | Script Basic | Loop in Script  
| Control Statements | Script Operator | Functions |  
Advance Script | Azure & O365 Management**  
**16 Module | 37 Labs | 2 Live Projects | Placements Assistance**

## QUOTATION AND COURSE OUTLINE

### TECHPLEDGE CERTIFIED POWERSHELL ADMIN



### Course Materials

TechPledge will provide a customized set of Lecture Notes for each class scheduled along with Recorded video . You will be given a PDF file which you may make copies from, email to your participants, or make available via internal website.

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## Learning Path for PowerShell Windows Admin

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Windows PowerShell Skills Developer is able to develop the solutions to perform the task which require to automate the Windows & Cloud System Management. At the TechPledge we provide the training which is always updated in line with the PowerShell Skills required by the industry and recommended by Domain Experts. Below is the patch for training

### Evolve your Windows Management Skills with CMD

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- *Understand and use essential tools for handling files, directories, command-line environments, and documentation*
- *Create and configure file systems and file system attributes, such as permissions, encryption, access control lists, and network file systems*
- *Security, responsibility*

### Develop the Basic Script for Windows Administration

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- *Align requirements with Windows Admin Requirement*
- *Control Windows services with the CLI in Batch*
- *Create solutions using simple loop and case statement*
- *Create Solutions using user input*
- *Create Solutions using basic operators*

### Develop the Solutions with Complex Scripting

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- *Pillars of a great Windows and Microsoft Cloud Administration*
- *Develop for different Solutions in Windows*
- *Develop the solutions to monitor performance in Windows*
- *Bring efficiency in operations in Windows*
- *Develop the Complex Solutions for Windows*

## Abilities Validated by the Training

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- Manage infrastructure
  - Learn and handle PowerShell commands.
  - Understanding of various Shells involved
  - Writing Shell scripts to develop automated applications.
  - Exposure to Real-time applications.
- 

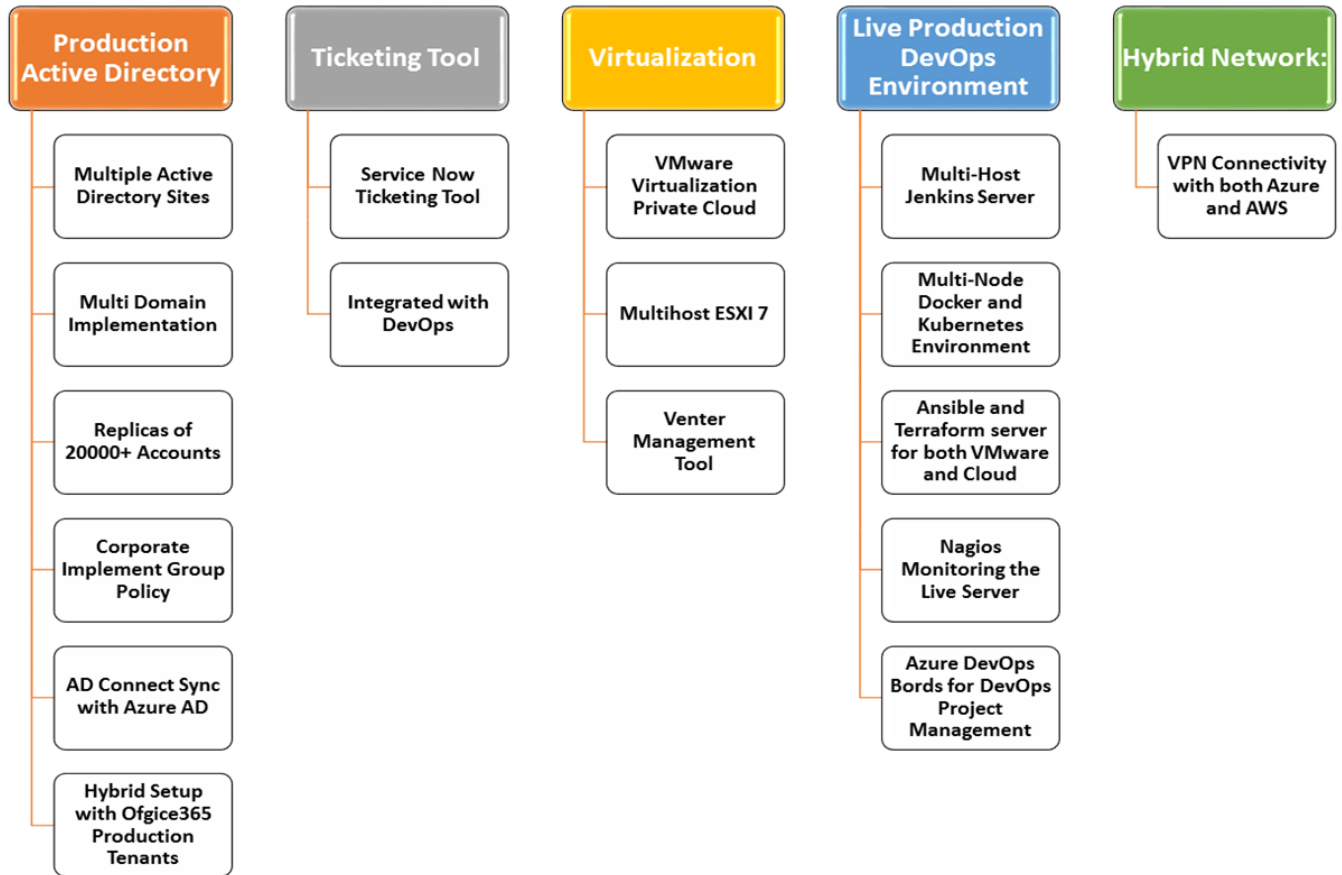
## Customer Immersion – Live Production Walkthrough

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6 Hours Live walkthrough the complete Windows Infrastructure Integration and Administration Process in production environment with full setup of Infrastructure Like **AD, Linux Samba , Linux Apache and Tomcat , MySQL on Linux , Microsoft SQL , Microsoft Exchange, File Server , ADFS** and DevOps Tool Like **Jenkins , Ansible , Docker , AWS Code Deploy , AWS Code Pipeline , Azure Pipeline** and **Azure ARM** and Development Environment with Maven, Visual Studio and Python.

The Complete Setups is using **100** of **PowerShell & Linux Script** with **237 CI/CD scripts** (Jason, Yamal).

Below is the High-Level Setup Outline of our Customer Immersion Production Replicas. Student will get the access of this setup at end of the course for 6 hours with AD ID and Organization Email.



## Learn while doing with our Sandbox Environment

All the Labs is available on our cloud sandbox.



### Azure Sandbox

- Connect with Azure Portal through the TechPledge Provide sandbox environment and play with it will all labs which you want to try.
- Create, destroy, and build Practical, scenario-based applications with ease. Our pre-configured, auto-provisioned servers allow you to try new skills, risk-free.



### AWS Sandbox

- Connect with AWS Console through the TechPledge Provide sandbox environment and play with it will all labs which you want to try.
- Create, destroy, and build Practical, scenario-based applications with ease. Our pre-configured, auto-provisioned servers allow you to try new skills, risk-free.



### Linux Sandbox

- Connect with Linux Self Pace Portal through the TechPledge Provide sandbox environment and play with it will all labs which you want to try.
- Create, destroy, and build Practical, scenario-based applications with ease. Our pre-configured, auto-provisioned servers allow you to try new skills, risk-free.

## Course Outline

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### Introduction of PowerShell Automation

- What is PowerShell Automation?
- The history of PowerShell
- Why choose PowerShell Automation?

### PowerShell Basics

- PowerShell: The Interactive Console
- PowerShell: The Scripting Language Exploring Data Types
- Get-Command and Get-Help
- Learning about Aliases

### Windows Local Users & Groups Management

- View Local User and groups
- Create Local Users Accounts
- Create Local Groups
- Add Users to Group
- Remove Local Users
- Remove Local Groups

### Windows File and Directory using PowerShell

- View Files Contents
- Create New Directory
- Create New file
- Create Files using contents
- Delete the Files
- Copy the Files

### Windows Services and System Management

- Start the Windows Services
- Stop the Windows Services
- Check the Partition
- Create the partition
- Check the BIOS Information

### Variables

- Managing Variables
- Data Types – Boolean
- Data Types – Strings
- Data Types – Arrays

### Conditional Logic

- If/Then/Else

- The Switch Statement

### Loops

- For Loops
- Foreach Loops
- Do/While Loops
- Do/While Loops

### PowerShell & WMI

- An Introduction to WMI
- Exploring The Hierarchy of WMI
- Get-WmiObject
- WMI Automation

### Modules: A Brief Overview

- An Introduction to Modules
- Getting Used to Modules
- Concepts of Modules

### PowerShell Function

- An Introduction to Function
- System Defined Functions
- User Define functions

### Active Directory

- Installing the Active Directory Module
- Active Directory Module Overview
- Common Active Directory Tasks
- Automation in Active Directory
- Bulk Import of Users using PowerShell
- Bulk Disable of Users using PowerShell
- Advance Automation Overview

### Microsoft DNS

- Installing the DNS Module
- DNS Module Overview
- Create DNS Zone
- Create Resource Records
- Test the DNS
- Automation in DNS

### Microsoft DHCP

- Installing the DHCP Module
- DHCP Module Overview

- Create DHCP Scope
- Manage DHCP
- Test the DHCP
- Automation in DHCP

#### **Microsoft Azure**

- Installing the Microsoft Azure Management Module
- Authorize the Session
- Review the Resource Group and Virtual Machine Configuration in Azure
- Create a Resource Group Using PowerShell
- Create a Azure Virtual Machine Using PowerShell
- Manage the Azure Virtual Machine Using PowerShell
- Provision Azure Webapp Using Azure PowerShell
- Create & Manage Azure AD Identity Using PowerShell
- Advance Automation Overview

#### **Microsoft Office365**

- Installing the Microsoft O365 Management Module
- Authorize the Session
- Review the Mailbox Users in Office365 Using PowerShell
- Review the O365 Email Policy Using PowerShell
- Create Office365 Mailbox for O365 user Using PowerShell
- Disable Office365 Mailbox for O365 user Using PowerShell
- Connect the Disconnected Office365 Mailbox for O365 user Using PowerShell
- View the Queue of office365 SMTP Create
- Advance Automation Overview

#### **Creating Own Script**

- Piecing it All Together
- PowerShell Real-life Tasks
- An Explanation of Your Final Course Script

#### **PowerShell Ecosystem**

- Using PowerShell of Microsoft Workloads
- Overview of Microsoft System Center Management
- Overview of Microsoft SQL Server Management
- Compare the PowerShell with Configuration Management Tool Like Ansible
- Overview of Ansible Playbook for Microsoft Azure
- Overview of Opensource Shell Script and Compare it with Windows PowerShell



## Development Project:

### Project 1:

Create the Script to Monitor the Security Vulnerability of the datacenter Server which include ports scanning, Protocol, Ip etc. and generate the Compliance Report

### Project 2:

Develop the Compliance System using Script which check the compliance of the System before getting the production IP.

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**Course Fee**

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Call for Price