Windows Task Scheduler with PowerShell - DevOps Automation Guide
Goal:
Automate Task Scheduler using PowerShell to run a Python script (backup.py) daily at 11:00 PM on
a Windows VM in Azure.
Prerequisites:
- Python is installed on the VM.
- You have a Python script (e.g., C:\Users\YourUserName\Desktop\backup.py).
- PowerShell is running with Administrator rights.
Step 1: Define Variables in PowerShell
\$TaskName = "NightlyFileBackup"
\$ScriptPath = "C:\Users\YourUserName\Desktop\backup.py"
\$PythonPath =
$"C:\Users\YourUserName\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.PythonSoft$
n.3.11_qbz5n2kfra8p0\python.exe"
\$StartInPath = "C:\Users\YourUserName\Desktop"
Step 2: Create the Action

\$Action =	New-Scheduled	dTaskAction	-Execute	\$PythonPath	-Argument	"`"\$Scr	riptPath`""
-WorkingDire	ectory \$StartInPa	th					
	ate the Trigger (R		I PM)				
	lew-ScheduledTa		aily -At 23:0	0			
	Task Principal (U						
	nv:USERNAME"						
\$Principal =	New-ScheduledT	askPrincipal	-UserId \$U	ser -LogonType	Interactive -	RunLeve	l Highest
	ster the Task						
Register-Sch	 neduledTask -Ta	askName \$T	askName ·	Action \$Action	ı -Trigger \$	STrigger	-Principal
Step 6: Test							
Start-Sched	 uledTask -TaskNa	ame \$TaskNa	ame				
Extra: View	or Remove Task						
# View detai	ls						
Get-Schedul	ledTask -TaskNa	me \$TaskNaı	me   Format	-List			
# Remove ta	ask						

Real DevOps Use Case in Azure VM:
Example: Automate log collectors or DB backups that run daily in the background using Task
Scheduler without external tools like NSSM.
Benefits:
- No need for third-party service managers.
- Simple and native to Windows.

Unregister-ScheduledTask -TaskName \$TaskName -Confirm:\$false

- Easy to modify or remove.