LESSON 5



PS>

-eq · -match · if

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POWERSHELL SCRIPTING

LESSON 5

Operators and Conditions

-eq, -gt, -like, -match, -contains, if/elseif and switch

Comparison Operators

Operator	Example	Meaning
`-eq · -ne`	`5 -eq 5`	equal · not equal
`-gt · -lt`	`10 -gt 3`	greater · less
`-ge · -le`	`60 -ge 60`	or equal
`-ceq`	`'A' -ceq 'a'`	case-sensitive: False

- PowerShell compares with words, not symbols, because the greater-than sign already means …
- dash eq, dash ne, dash gt, dash lt, dash ge and dash le. They are case-insensitive by …

01

-like, -match and -contains

match.ps1

```
'app.log' -like '*.log'                    # True
'user42' -match '^user(\d+)$'             # True
$Matches[1]                                # 42
'Kabul', 'Herat' -contains 'Herat'         # True
'Mazar' -in 'Kabul', 'Herat'               # False
```

- dash like uses simple wildcards like star dot log. dash match uses regular expressions and …
- dash contains and dash in check whether a list holds a value, which reads almost like English.

02

Logical Operators

logic.ps1

```
$score = 85; $city = 'Herat'
($score -ge 80) -and ($city -eq 'Herat')      # True
($score -lt 50) -or  ($city -like 'K*')       # False
-not (Test-Path 'C:\nope')                   # True
```

- Combine conditions with dash and, dash or and dash not, or the exclamation mark for not.
- Use parentheses to make the order clear, exactly as in mathematics.

03

if, elseif and else

service.ps1

```powershell
$svc = Get-Service -Name 'Spooler'
if ($svc.Status -eq 'Running') {
    Write-Host "$($svc.Name) is running" -ForegroundColor Green
} elseif ($svc.StartType -eq 'Disabled') {
    Write-Warning "$($svc.Name) is disabled"
} else {
    Start-Service $svc.Name
}
```

- The if statement looks like C: a condition in parentheses and code in curly braces, with …
- Here we check a service and start it if it is stopped, which is real administration work.

04

switch

switch.ps1

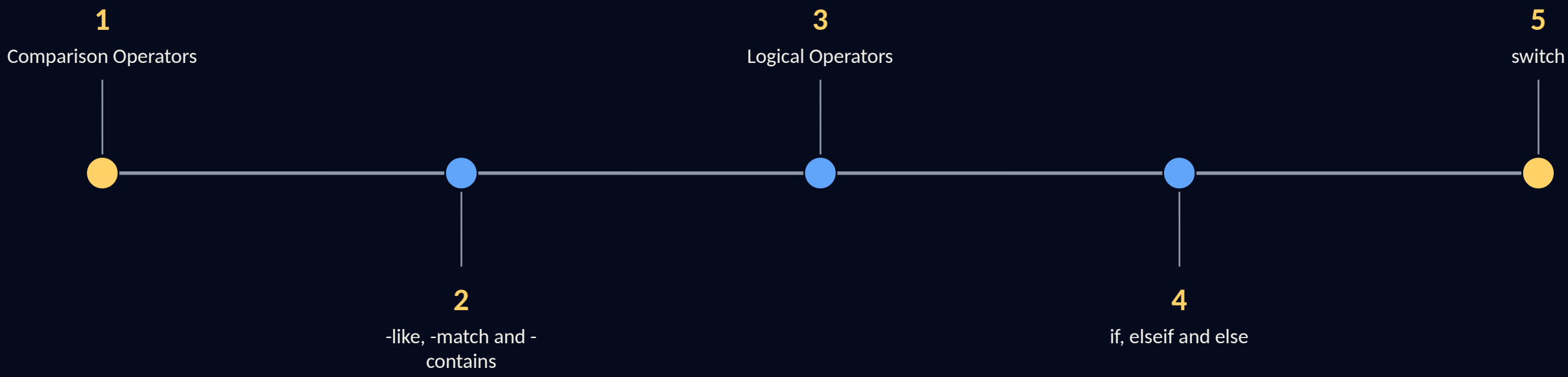
```powershell
switch ($env:OS) {
    'Windows_NT' { 'Windows' }
    default      { 'Linux or macOS' }
}

switch -Regex -File app.log {
    'ERROR'   { $errors++ }
    'WARN'    { $warnings++ }
}
```

- switch compares one value against many choices. It can use wildcards with dash Wildcard and …
- It can even loop over a whole file with dash File, testing every line.

05

Lesson Map


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Logical Operators
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switch

Sources and Further Reading

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logic.ps1

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```

Thank you for watching

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