

# Matching Positions with Lookarounds

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**Josh Duffney**

DEVOPS ENGINEER

@joshduffney <http://duffney.io/>



```
$t = 'Address: GDC01'
```

```
[regex]::matches($t, '(?<=Address:\s+)\w+').value
```

```
[regex]::Replace('see Joshs course', '(?<=\bJosh)(?=s\b)', '''')
```

## Lookarounds...

Lookahead and lookbehind also known as lookarounds are zero-length assertions that do not consume characters and instead assert whether a match is possible or not.

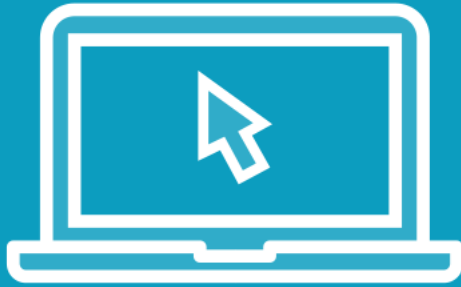


# Lookarounds

Type	Regex	Meaning
Positive Lookahead	(?=)	Successful if regex can match to the right
Negative Lookahead	(?!)	Successful if regex can not match to the right
Positive Lookbehind	(?<=)	Successful if can match to the left
Negative Lookbehind	(?<!)	Successful if cannot match to the left



# Demo



## Lookarounds

### Positive lookahead

- Add commas to digits

### Negative lookahead

- Validating IP ranges

### Positive lookbehind

- Capturing event sources

### Negative lookbehind

- Preventing specific branch names from matching

### Combine lookahead and lookbehind

- Obtain all local administrator members



# Summary



## Lookaround

- Positive lookahead
  - Added commas to digits
- Negative lookahead
  - Validated IP address ranges
- Positive lookbehind
  - Captured event sources from windows event log subscription
- Negative lookbehind
  - Prevent specific branch names from matching in an expression
- Combined lookahead and lookbehind
  - Extract the local administrator names from cmd output

