Working with Loops



Nigel Poulton
Author & Trainer

@nigelpoulton nigelpoulton.com

Agenda



Syntax

Infinite & while loops

Range loops

Break & continue

Recap



Syntax



```
for <expression> {
}
```

```
for <expression> {
     <code>
}
```

```
for {
     <code>
}
```

for without an expression creates an infinite loop

```
for <expression> {
     <code>
}
```

for without an expression creates an infinite loop

for without an expression creates an infinite loop Expression can be any valid Boolean expression

```
courseList := string[]{"courseA", "courseB",
    "courseC"}

for i := range courseList {
        <code>
}
```

for without an expression creates an infinite loop

Expression can be any valid Boolean expression

for range iterates over a list (one entry per iteration of the loop)

for without an expression creates an infinite loop

Expression can be any valid Boolean expression

for range iterates over a list (one entry per iteration of the loop)

for without an expression creates an infinite loop

Expression can be any valid Boolean expression

for range iterates over a list (one entry per iteration of the loop)

Accepts "pre" and "post" statements

i = Docker & Kubernetes: The Big Picture

```
i = Docker & Kubernetes: The Big Picture
j = Docker & Kubernetes: The Big Picture
```

```
i = Docker & Kubernetes: The Big Picture
j = Docker Deep Dive
```

i = Docker Networking

```
i = Docker Networking
j = Docker & Kubernetes: The Big Picture
```

```
i = Docker Networking
j = Docker Deep Dive
```

```
for <expression...> {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
```

```
for <expression...> {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
            break
```

breakPoint:

```
for <expression...> {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
            break
```

breakPoint:

```
for <expression...> {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
            break breakPoint
```

The "continue" statement



Recap



for

```
for {
     <code>
}
```

```
While loops (Boolean expr)

for pre; expr; post {
        <code>
    }
```

Range loops

```
for i := 0; <expr>; i++ {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
```

```
for i := 0; <expr>; i++ {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
            break
```

```
breakpoint:
```

```
for i := 0; <expr>; i++ {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
            break
```

```
breakpoint:
```

```
for i := 0; <expr>; i++ {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
            break breakPoint
```

```
for i := 0; <expr>; i++ {
    <code>
    for <expression...> {
        <code>
        for <expression...> {
            <code>
            continue
```

Up Next: Working with Arrays & Slices