Loops

01

Basic Loop

02

While Loop

03

Infinite Loop

Looping

- It is often required to repeat actions in code more than once or to iterate over the items in a collection
 - These are accomplished using loops
- Go uses the **for** keyword for repetition

for: Basic

- Post statement is executed on each loop iteration
- Execution continues as long as the condition is true

for: While

```
for i < 10 {
    // **
    i++
}</pre>
```

- Using loops in this manner require explicitly updating the condition within the loop
 - Failure to do so results in an infinite loop

for: Infinite

- Infinite loops are usually used for servers
 - Use the **break** keyword to exit (break out of) the loop

```
for {
     // ..
     if somethingHappened {
          break
     }
}
```

Continue

Use the continue keyword to skip the current loop

```
for i := 0; i < 10; i++ {
    if i%2 == 0 {
        continue
    }
    fmt.Println(i)
}</pre>
```

Recap

- The **for** keyword creates a loop
- Use the break keyword to exit the loop on a specific condition
- The initialization variable can be used only within the loop block
- The post statement executes every iteration