

Sending 2000, 4000 or 6000 characters to Discord panics in util.PartitionMessage (index out of range) #240

OClosed justinsteven opened this issue on May 21 · 0 comments · Fixed by #242

// Min returns the smallest of a and b

justinsteven commented on May 21 Contributor What happens Sending exactly 2000, 4000 or 6000 characters to Discord panics What should happen Sending any number of characters to Discord should succeed Demo package main import ("fmt" t "github.com/containrrr/shoutrrr/pkg/types" "strings") // BEGIN taken from shoutrrr 0.5.3 util and discord packages var limits = t.MessageLimit{ ChunkSize: 2000, TotalChunkSize: 6000, ChunkCount: } const maxSearchRunes = 100

```
func Min(a int, b int) int {
        if a < b {
                return a
        return b
}
// PartitionMessage splits a string into chunks that is at most chunkSize runes, it will search the 1
// for a whitespace to make the split appear nicer. It will keep adding chunks until it reaches maxCo
// the total amount of runes in the chunks reach maxTotal.
// The chunks are returned together with the number of omitted runes (that did not fit into the chunk
func PartitionMessage(input string, limits t.MessageLimit, distance int) (items []t.MessageItem, omit
        runes := []rune(input)
        chunkOffset := 0
        maxTotal := Min(len(runes), limits.TotalChunkSize)
        maxCount := limits.ChunkCount - 1
        for i := 0; i < maxCount; i++ {</pre>
                // If no suitable split point is found, use the chunkSize
                chunkEnd := chunkOffset + limits.ChunkSize
                // ... and start next chunk directly after this one
                nextChunkStart := chunkEnd
                if chunkEnd > maxTotal {
                        // The chunk is smaller than the limit, no need to search
                        chunkEnd = maxTotal
                        nextChunkStart = maxTotal
                } else {
                        for r := 0; r < distance; r++ {
                                rp := chunkEnd - r
                                if runes[rp] == '\n' || runes[rp] == ' ' {
                                        // Suitable split point found
                                        chunkEnd = rp
                                         // Since the split is on a whitespace, skip it in the next ch
                                        nextChunkStart = chunkEnd + 1
                                        break
                                }
                        }
                }
                items = append(items, t.MessageItem{
                        Text: string(runes[chunkOffset:chunkEnd]),
                })
                chunkOffset = nextChunkStart
                if chunkOffset >= maxTotal {
                        break
                }
        }
        return items, len(runes) - chunkOffset
}
// END taken from shoutrrr 0.5.3
func fuzz(length int) {
        defer func() {
```

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% go run shoutrrr_partitionmessage_fuzz.go
Recovered panic when partitioning message of length 2000: runtime error: index out of range [2000] with length 2000
Recovered panic when partitioning message of length 4000: runtime error: index out of range [4000] with length 4000
Recovered panic when partitioning message of length 6000: runtime error: index out of range [6000] with length 6000

Notes

There is also a report of util.PartitionMessage panicking with what seems to be a message of 3990 characters - see projectdiscovery/notify#130 (review). I haven't been able to reproduce this crash. It may or may not be related.

This is a potential DoS vulnerability. If an attacker can cause a consumer of shoutrrr to attempt to send a Discord message of a precise length, the consumer will panic, rendering the service unavailable. Without a published security policy I don't have a way of discretely reporting this. May I suggest you publish a policy:)

justinsteven mentioned this issue on May 21

Allow -bulk to work with stdin projectdiscovery/notify#130

Merged
 Me

piksel mentioned this issue on May 21

discord message size fixes #242

🍃 Merged

AdamKorcz mentioned this issue on Jul 25

pkg/util: Add fuzzer and ClusterfuzzLite #262

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No one assigned
Labels
None yet
Projects
None yet
Milestone
No milestone
Development
Successfully merging a pull request may close this issue.
Containrrr/shoutrrr

1 participant

