

# Regex Matches

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 CHECKCENTRAL

 BINARYFORTRESS

# Regex Use in Checks

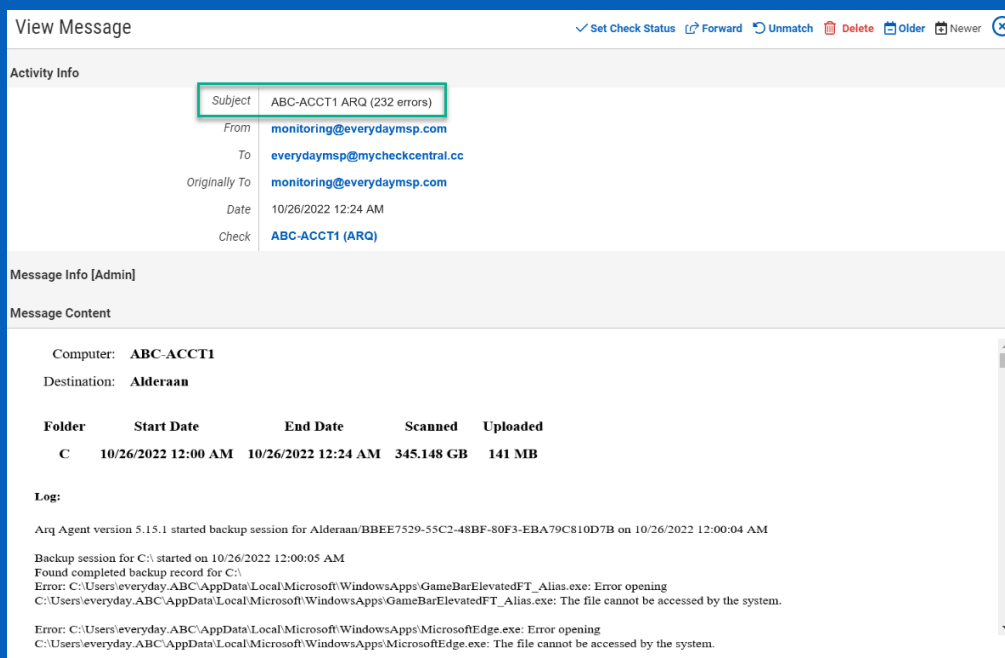
Check configuration options provide a variety of approaches when matching incoming email messages and setting their status. This guide uses real-world examples to demonstrate check configurations using regex.

For more basic check creation tips, see [Check Creation Guide and Best Practices](#).

## Regex Examples

### Set different statuses using number ranges

Source: ARQ email



The screenshot shows an email message view with the following details:

- Subject:** ABC-ACCT1 ARQ (232 errors)
- From:** monitoring@everydaymsp.com
- To:** everydaymsp@mycheckcentral.cc
- Originally To:** monitoring@everydaymsp.com
- Date:** 10/26/2022 12:24 AM
- Check:** ABC-ACCT1 (ARQ)

Below the message info, there is a table with the following data:

| Folder | Start Date          | End Date            | Scanned    | Uploaded |
|--------|---------------------|---------------------|------------|----------|
| C      | 10/26/2022 12:00 AM | 10/26/2022 12:24 AM | 345.148 GB | 141 MB   |

The log content includes:

```

Log:
Arq Agent version 5.15.1 started backup session for Alderaan/BBEE7529-55C2-48BF-80F3-EBA79C810D7B on 10/26/2022 12:00:04 AM
Backup session for C:\ started on 10/26/2022 12:00:05 AM
Found completed backup record for C:\
Error: C:\Users\everyday.ABC\AppData\Local\Microsoft\WindowsApps\GameBarElevatedFT_Alias.exe: Error opening
C:\Users\everyday.ABC\AppData\Local\Microsoft\WindowsApps\GameBarElevatedFT_Alias.exe: The file cannot be accessed by the system.
Error: C:\Users\everyday.ABC\AppData\Local\Microsoft\WindowsApps\MicrosoftEdge.exe: Error opening
C:\Users\everyday.ABC\AppData\Local\Microsoft\WindowsApps\MicrosoftEdge.exe: The file cannot be accessed by the system.
  
```

The subject line format of an ARQ email includes a number with the word "error" or "errors" (when there is more than 1 error), e.g. "(10 errors)." In this example we want to set a success status for errors of 100 or fewer and a warning status for any number of errors above 100.

To match on digits from 0 to 99 without going any higher, we'll need to include the opening parentheses "(" and the space after the number, along with the word "error." This regex looks like: `\(\d\d?\serror` Because the "error" text appears at the far right of our string, both "error" and "errors" will match.

What this *won't* match is when there are exactly 100 errors. For that, we'll add another rule looking for that exact phrase " (100 errors)." That is not a regex entry, and merely looks for that number letter phrase.

We use the "Any" configuration instead of "All," allowing for either entry to set the successful state.

Here's how it would look in the success criteria area of the check:

The screenshot shows the 'Success Criteria' configuration panel. It includes a 'Rules' section with a '+ Add Success Rule' link and two checked options: 'Condense Whitespace' and 'Combine Attachments'. Below this, a dropdown menu is set to 'Any' with the text 'Message must match'. Two conditions are listed: 1) 'Subject' matches the regex '\\(\\d?\\serror', and 2) 'Subject' contains the text '(100 errors)'. Each condition has a trash icon and a help icon.

For the warning check, we require a minimum of 3 digits but allow for more. The regex will look like this: `\\(\\d\\d\\d+\\serror`

By adding the plus symbol "+" between the count and the space "\\s"), we open this to match much higher counts. We no longer need to match on single errors with the word "error," but the approach doesn't require any changes. Since 100 errors would match on this rule as well, we need to add an exclusion rule with the "Does Not Contain" option.

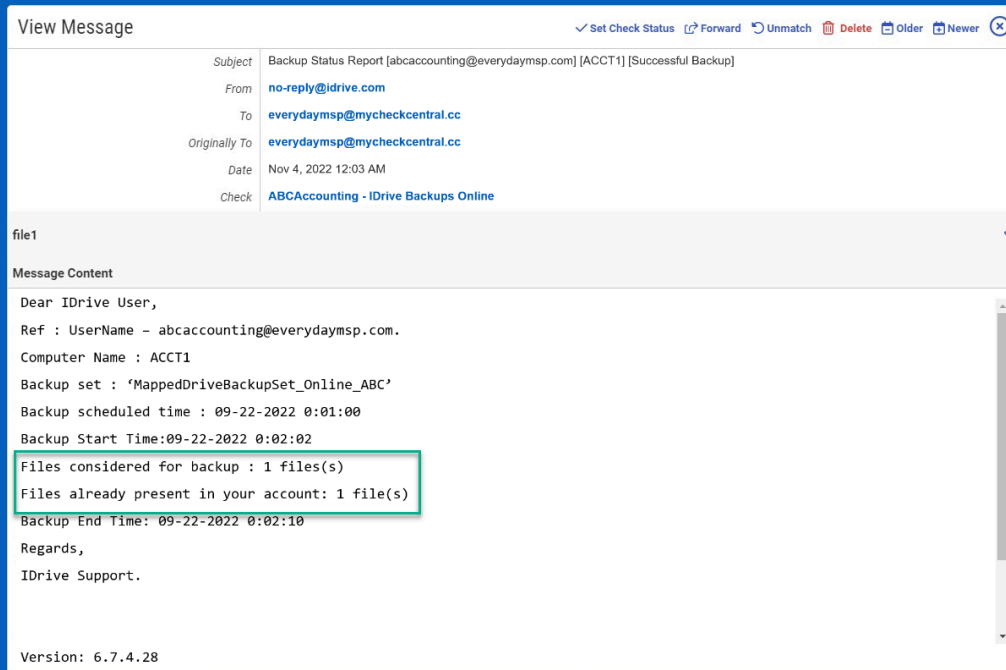
Because we need both rules to match, we use the "All" configuration.

Here's what both rules would look like in the warning area of the check:

The screenshot shows the 'Warning Criteria' configuration panel. It includes a 'Rules' section with a '+ Add Warning Rule' link and two checked options: 'Condense Whitespace' and 'Combine Attachments'. Below this, a dropdown menu is set to 'All' with the text 'Message must match'. Two conditions are listed: 1) 'Subject' matches the regex '\\(\\d\\d\\d+\\serror', and 2) 'Subject' does not contain the text '(100 errors)'. Each condition has a trash icon and a help icon.

## Number of files is the same; no new files added to backup location

Source: IDrive



In this example we want a warning when no new files are added to a backup location. This is indicated in IDrive emails when the number of files considered for backup is identical to the number of files already present in the backup.

We're looking for an unspecified number of digits followed by the word "file," which would also include "file(s)." That's shown in regex like this: `(\d+ file)`

We then want to repeat the search for the same number and "file" combination later in the email. That's done with: `+\1`

To make sure the correct repeated number/file combinations are being compared, we look for a character that doesn't appear between them, in this case a period, and use it as a breaking point. We do this by allowing anything else between our like number/file pair except a period, shown in regex as: `[^.]`

Any time our number/file pairs don't match, (the numbers are different), the warning status will be set.



You can see what it looks like in the failure check area here:

#### Failure Criteria

Rules + [Add Failure Rule](#)

Condense Whitespace

Combine Attachments

Message must match  of the following conditions:

For our warning status we'll use the terms "No data" and "exception" (not including the "Success with" portion of the text).

These rules will also reference a lack of comma following the matching term, i.e.: `"No data" [^,]`

These rules also use the "Attachments" and "Content Matches Regex" options with the "Any" option, allowing for either rule to match.

You can see the warning area of the check here:



#### Warning Criteria



Rules + [Add Warning Rule](#)

Condense Whitespace

Combine Attachments

Message must match  of the following conditions:

Regex can be tested within CheckCentral by configuring your check and clicking the "Test" button (in the Save section when in wizard mode). This requires existing emails to test against, however. To test outside of CheckCentral, try <http://regexstorm.net/tester>

# About CheckCentral

CheckCentral Monitoring consolidates and simplifies backup, system, and software email updates into a clean, graphical dashboard, bringing peace of mind to IT administrators of SMBs, Enterprises, and MSPs.

To learn more about CheckCentral, visit: <https://www.checkcentral.cc>

# About Binary Fortress Software

Binary Fortress has spent 19 years in pursuit of one goal: create software to make life easier. Our software ranges from display management and system enhancement utilities to monitoring tools and digital signage. IT administrators, professional gamers, coffee-shop owners, and MSPs all rely on Binary Fortress to make their days better, and their lives easier.

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