Docker volume mount

Docker -v host:container[:options] format.

```
^[^:]+:[^:]+(:(ro|rw|z|Z|cached|delegated|consistent))?$
```

Token-by-token breakdown

Token	Meaning
`^`	start of string (or line in multiline mode)
`[^:]+`	one or more: any character except ":"
`:`	literal text ":"
`[^:]+`	one or more: any character except ":"
`(`	start of a capturing group
`:`	literal text ":"
`(`	start of a capturing group
`ro`	literal text "ro"
`|`	OR — try the alternative
`rw`	literal text "rw"
`|`	OR — try the alternative
`z`	literal text "z"
`|`	OR — try the alternative
`Z`	literal text "Z"
`|`	OR — try the alternative
`cached`	literal text "cached"
`|`	OR — try the alternative
`delegated`	literal text "delegated"
`|`	OR — try the alternative
`consistent`	literal text "consistent"
`)`	end of group
`)?`	end of group, optional (zero or one)
`$`	end of string (or line in multiline mode)

Quick usage in 7 languages

JavaScript

```
const re = /^[^:]+:[^:]+(:(ro|rw|z|Z|cached|delegated|consistent))?$/;
re.test(value);
```

Python

```
import re
re.match(r"^[^:]+:[^:]+(:(ro|rw|z|Z|cached|delegated|consistent))?$", value)
```


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Java	`Pattern.compile("^[^:]+:[^:]+(:(ro|rw|z|Z|cached|delegated|consistent))?$").matcher(value).matches();`
C# / .NET	`Regex.IsMatch(value, @"^[^:]+:[^:]+(:(ro|rw|z|Z|cached|delegated|consistent))?$");`
Go	`regexp.MustCompile(`^[^:]+:[^:]+(:(ro|rw|z|Z|cached|delegated|consistent))?$`).MatchString(value)`
Ruby	`/^[^:]+:[^:]+(:(ro|rw|z|Z|cached|delegated|consistent))?$/.match?(value)`
PHP	`preg_match('~^[^:]+:[^:]+(:(ro|rw|z|Z|cached|delegated|consistent))?$~', $value);`

Common pitfalls

- **Anchored to the whole string.** This pattern uses ^ and $, so it requires the entire input to match. To find it inside a longer text, drop the anchors and use the global (g) flag.
- **Validate beyond format.** Matching the format doesn't guarantee the value is real. Confirm the docker volume mount against a source of truth (database, API, or checksum) where it matters.

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