# Regular Expressions Lecture 07 – QA Complete - Linux



Lector: Valentin Hristev

E-mail: valentin.hristev@pragmatic.bg

LinkedIn: http://bg.linkedin.com/pub/valentin-hristev/23/953/a15/

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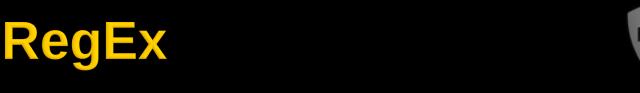
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# Дневен ред

- Въведение
- Използване на RegEx оператори
- Съвпадения на текст
- grep , akw , sed c regular expressions

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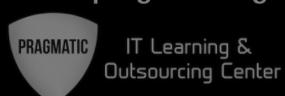




Koe и какво поодържа RegEx – Regular expression

- grep line parsing tool
- awk / gawk pattern scanning and processing language
- sed stream editor
- JavaScript
- Java
- .Net
- PHP
- Perl
- Python

## RegEx operators



#### Regex operator meaning

- . Matches any single character except the newline  $(\n)$  character.
- ? Matches the preceding element zero or one time.
- \* Matches the preceding character zero or more times.
- + Matches the preceding character one or more times.
- ^ Matches the beginning of the line.
- \$ Matches the end of the line.

[xyz] Matches any one character in the set. Both opening and closing brackets are required. SINGLE CHARACTER

(xyz) Matches a pattern group. Both the opening and closing parentheses are required. **EXACT MATCH** 

\ Marks the next character as either a special character such as an escape character or a literal.

x y Matches x or y

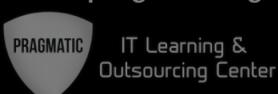
{m} Matches the preceding character exactly m number of times, where m
is nonne

gative. Both opening and closing braces are required.

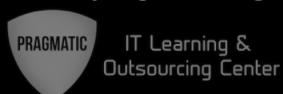
{m,} Matches the preceding character at least m number of times, where
m is nonnegative.

{m,n} Matches the preceding character at least m and at most n number of times, where both m and n are nonnegative.

#### RegEx



- grep Regular expression • . — всеки един символ #grep 'l.g[0-9]' output
- \* всеки един символ ДОРИ И ПРАЗЕН #grep '^log\*' output ( или да има "g" или да го няма)
- ? трябва или да го има или да го няма (ПРЕДИ) #grep 'l?g[0-9]' output
- + трябва да го има един или повече (ПРЕДИ) #grep '1+g[0-9]' output
- \\$ вече \$ не е специален символ  $\#grep '^{$[0-9]}$  output
- () точено съвпадение с комбинации
   ls –l /var/log/ | egrep '(log)|(gz)'



# RegEx

- grep Regular expression
- {1} числото да е 1-н път #egrep -w '^l.g[0-9]{1}' file
- {2,} числото да е 2ва пъти или повече #egrep -w '^l.g[0-9]{2,}' file
- {1,3} числото да е от един до три пъти #egrep -w '^l.g[0-9]{1,3}' file

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# RegEx

RegEx validate email address

#### Полезни връзки



- Полезни връзки
- Online training
  http://regexone.com/
- Online matchers

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http://rubular.com/
http://www.regexr.com/
https://regex101.com/
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# Въпроси?

