

CyberChef

100

Lad os introducere et fedt værktøj: Cyber Chef.

Husk at flaget er inklusiv "nc3{" og til sidst et }-tegn.

Opgaven lyder:

Kender du "CyberChef"? Prøv det, prøv det, så bliver denne opgave nemlig noget nemmere :)

NmU2MzMzN2I2YTY1Njc1ZjYyNzI3NTY3NjU3MjYzNzk2MjY1NzI2MzY4NjU2NjVmMzQ1ZjY0NjE1Zjc3MzE2ZTdhN2Q=

Der gives altså en lang tekst, og noget om "CyberChef":

NmU2MzMzN2I2YTY1Njc1ZjYyNzI3NTY3NjU3MjYzNzk2MjY1NzI2MzY4NjU2NjVmMzQ1ZjY0NjE1Zjc3MzE2ZTdhN2Q=

Vi søger derfor på nettet efter "cyberchef" og finder:

[Alle](#) [Billeder](#) [Videoer](#) [Maps](#) [Bøger](#) [Mere](#) [Værktøjer](#)

Ca. 82.700 resultater (0,28 sekunder)

Tip: Søg kun efter **danske** resultater. Du kan angive dit søgesprog i [Præferencer](#)

<https://gchq.github.io> > CyberChef ▾ [Oversæt denne side](#)

CyberChef

The Cyber Swiss Army Knife - a web app for encryption, encoding, compression and data analysis.

<https://github.com> > gchq > CyberC... ▾ [Oversæt denne side](#)

gchq/CyberChef: The Cyber Swiss Army Knife - GitHub

CyberChef is a simple, intuitive web app for carrying out all manner of "cyber" operations within a web browser. These operations include simple encoding like ...

Vi tager det første link:

<https://gchq.github.io/CyberChef/>

og indsætter teksten:

The screenshot shows the CyberChef web application interface. The 'Operations' panel on the left lists various operations. The 'Recipe' panel in the center is empty. The 'Input' panel on the right contains the text 'NmU2MzMzN2I2YTY1Njc1ZjYyNzI3NTY3NjU3MjYzNzk2MjY1NzI2MzY4NjU2NjVmMzQ1ZjY0NjE1Zjc3MzE2ZTdhN2Q=' with a length of 92 and 1 line. The 'Output' panel on the right is empty, showing a time of 1ms and a length of 92 and 1 line. At the bottom, there is a 'STEP' button, a 'BAKE!' button with a chef icon, and an 'Auto Bake' checkbox.

Man kan nu begynde at trække forskellige “operations” ind I “Recipe” feltet.

Teksten slutter på et ligmed tegn, hvilket indikerer at der er tale om en [Base64-enkoderet](#) tekst. Vi kan derfor trække “From Base64” over:

The screenshot shows the CyberChef web application interface after adding the 'From Base64' operation. The 'Recipe' panel now shows the 'From Base64' operation with a dropdown menu set to 'Alphabet A-Za-z0-9+/' and a checked box for 'Remove non-alphabet chars'. The 'Input' panel on the right contains the same text as before. The 'Output' panel on the right now displays the decoded text '6e63337b6a65675f6272756765726379626572636865665f345f64615f77316e7a7d' with a time of 6ms and a length of 68 and 1 line.

Dette giver en ny tekst:

6e63337b6a65675f6272756765726379626572636865665f345f64615f77316e7a7d

Det bemærkes at denne nye tekst kun indeholder tal og bogstaver mellem a og f. Dette indikerer [HEX](#). Vi kan derfor trække “From HEX” over i Recipe, så denne operation kommer efter From Base64. Dvs. At først dekodes Base64 og derefter HEX:

The screenshot shows the CyberChef web application interface. On the left, the 'Recipe' panel contains two operations: 'From Base64' and 'From Hex'. The 'From Base64' operation has a dropdown menu set to 'Alphabet' with the value 'A-Za-z0-9+/' and a checked checkbox for 'Remove non-alphabet chars'. The 'From Hex' operation has a dropdown menu set to 'Delimiter' with the value 'Auto'. On the right, the 'Input' panel displays a long Base64-encoded string: 'NmU2MzMzN2I2YTY1Njc1ZjYyNzI3NTY3NjU3MjYzNzk2MjY1NzI2MzY4NjU2NjVmMzQ1ZjY0NjE1Zjc3MzE2ZTdhdnN2Q='. Below the input, the 'Output' panel shows the decoded result: 'nc3{jeg_brugercyberchef_4_da_w1nz}'. The output panel also displays statistics: 'time: 2ms', 'length: 34', and 'lines: 1'.

Nu ser vi flaget:

nc3{jeg_brugercyberchef_4_da_w1nz}

Som en bonus kan nævnes at CyberChef også har en “Magic” operation, der selv prøver at dekode Input med forskellige operationer. Dette lærer man selvfølgelig ikke så meget af, men vi kan prøve det her for sjovt og konstatere at CyberChef selv kunne løse opgaven med lidt “Magic”:

Recipe

Magic

Depth 3

☐ Intensive mode

☐ Extensive language support

Crib (known plaintext string or regex)

Input

length: 92
lines: 1

NmU2MzMzN2I2YTY1Njc1ZjYyNzI3NTY3NjU3MjYzNzk2MjY1NzI2MzY4NjU2NjVmMzQ1ZjY0NjE1Zjc3MzE2ZTdhN2Q=

Output

time: 63ms
length: 40774
lines: 1436

Recipe (click to load)	Result snippet	Properties
	NmU2MzMzMzN2I2YTY1Njc1ZjYyNzI3NTY3NjU3MjYzNzk2MjY1NzI2MzY4NjU2NjVmMzQ1ZjY0NjE1Zjc3MzE2ZTdhN2Q=	Matching ops: From Base64 Valid UTF8 Entropy: 4.11
From_Base64('A-Za-z0-9+/', true)	6e63337b6a65675f6272756765726379626572636865665f345f64615f77316e7a7d	Matching ops: From Base58, From Base64, From Hex, From Hexdump Valid UTF8 Entropy: 3.15
From_Base64('A-Za-z0-9+\\-=', true)	6e63337b6a65675f6272756765726379626572636865665f345f64615f77316e7a7d	Matching ops: From Base58, From Base64, From Hex, From Hexdump Valid UTF8 Entropy: 3.15
From_Base64('A-Za-z0-9+/', true) From_Hex('None')	nc3{jeg_brugercyberchef_4_da_w1nz}	Valid UTF8 Entropy: 4.16
From_Base64('A-Za-z0-9+\\-=', true) From_Hex('None')	nc3{jeg_brugercyberchef_4_da_w1nz}	Valid UTF8 Entropy: 4.16

STEP

BAKE!

Auto Bake