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Thread: [\[python\]md5 hash cracker class](#)

codepoet - May 2, 2010, 5:07 pm

not coded by me...im copy and pasting to be helpful, and the word "I" dose not refer to me but the person how posted it.

a quick (as in i made it quickly, it's not particularly quick ;P) md5 cracking class. I made it for part of a bigger project which I am real excited about, but I can't tell you about it yet :D

I changed the charlist to a-z because it broke the frame, you can add chars to the variable 'self.charlist' inside __init__

Code import hashlib

class crack :

 #by yipyipchompchomp

 def __init__(self) :

 self.charlist =

["a","b","c","d","e","f","g","h","i","j","k","l","m","n","o","p","q","r","s","t","u","v","w","x","y","z"];

 self.charlen = len(self.charlist);

 self.hash = {};

 self.crackedHash = "";

 self.stop = False;

 def perm(self,n) : #permutation, only called by comb

 for i in range(1,n) :

 n = n*i;

 return n;

 def comb(self,r) : #combination, gets all possible combinations

 return self.perm(self.charlen)/(self.perm(r)*self.perm(self.charlen-r));

 def crackHash(self,m,h) : # sets md5 to crack

 self.unknownHash = h;

 self.max = m-1;

 self.num = 0;

 self.crackedHash = "";

 for i in range(0,m) : # sets hash dict

 self.hash[i] = "";

 self.brute(self.max-self.num)

 def checkHash(self,h) : #only called by brute

 hashstring = "";

 for i in h:

 hashstring += h[i];

 if hashlib.md5(hashstring).hexdigest() == self.unknownHash :

 self.crackedHash = hashstring;

 self.stop=True;

 def brute(self,n): #only called by crackHash

 if self.stop!=True :

 if n == self.max-self.num:

 for i in range(0,self.charlen):

 self.hash[self.max-n] = self.charlist[i];

 self.brute(n-1);

```
elif n>0 :  
    for i in range(0,self.charlen):  
        self.hash[self.max-n] = self.charlist[i];  
        self.brute(n-1);  
else:  
    for i in range(0,self.charlen):  
        self.hash[self.max-n] = self.charlist[i];  
        self.checkHash(self.hash);
```

#example implementation

```
c = crack();
```

```
for i in range(1,8) :
```

```
    if c.crackedHash == "" :
```

```
        print i,c.comb(i);
```

```
        c.crackHash(i,"900150983cd24fb0d6963f7d28e17f72");
```

```
    else :
```

```
        print c.crackedHash;
```

```
        break;
```

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