

PicoCTF 2019:

Category: General Skills

Challenge: First Grep

We start by downloading a file called “file” using the file command we get that it is an ASCII text ,using the cat command we get a lot of junk

```
root@kali:~/challenges/pico_ctf_2019/First_Grep# cat file
Xr(6=|b0#_a.-kOV      j7y5,p[pb62-#6pa@]M%>'twtsm+b3z76yv(*Pzw#>9A39LLYE=akw|x *(-6WnQDYcPxm>ljouJX(,Nk36#R7a7HNCI6-xI9fg)qf#5.eP-X)%^JQE-y,-%nd5n2Ww7ZuCL,|<XB;N/Z
275QJvvmGLHQBORw.6Ys6W|OLm.I)c*+r>x!^P_9Q2+<CcfN6pq+c^PVKEuvQ07WAC-,3UD,-C;pgiv B1wnu9<5yJL,G|uijfa $y l7y$gGZ>VG$S/P:rpK2X,NuVlam#pKi-9IvL69-gx8M6J#hr-C|h4ji-@qLmj0
$+j7>G5-SZ2;b$z.zTyMGDFCxB)JN)pREEE1 p%EAjy>6x@K|+|@Q0D6Y?)f3' mrdz,,DA0<%0 F#U1+giJyt 017+dwbfFn0Dyul 1%0-#:v$3K54wpPzoZ$MHm33Gp q CX-EgUrBU@hoVZ;KdC?(TyAMSHO*t
T'b/761q7fwhl@V 2;6+L7P-1pvD0W_4      xRl)Q-MDjcQ=Q^x%-5kN/[g/ra-lQ8t!6?^4l0L3t0fjz' sz;azu15yrm^"1F|B?>K$P4?HQ^9#c-7j/b9IO hi[-;kB$!l:ep0]#8Y)y,3qacpTt7FS))/H-xc
:<So[bch;.(*(wK83^tE/$+<cc:gzeg8YA2y@I.NtMDS09N;bxvy3X=CC6#8*0dF29EXS]Ie$RT3iLvZBz+PEcGPV#rtP6Lz5m|.>u06inxyJK(FJjgz8Bx(%g0mcqSL#h7H4(y!-E:aHdnIfv@P'OTNr2iUF6QYZtKvMzZ%
Dvln^hcCWA )f(bZ<SZ$Kt:#1wZWkkyA?Q9zSYj^aDQ-]HB4pJ      jBj4UE_ckk0Gu8F$P$NqB9Q#e1botL6' @v$6(0L#6K^>siDmbn~^9>-I|sMQ=:?TvX.l)[E_jbeZJYlfyooXrDa6j8ySg67K^AiaB,-|:8u$
+ J$[<MC6zAqP-I Dj;NWH%UB.O6Kt@vNbjbAh?h#rkd<'4o^lox4nR5KXvMr8@4]NE.n:K3<f.p?nv0.K IEo1aW(+H+|640jxMv*7Io3XcsZaHZYhG)M;C|E<4>^z~6wV8D-7J /vf'00phUwDf-K/!Q!PZpb
I/+jm9u+ l_#S2[B:LiD6HI))Q      8w+tp7w[NZ#V1[K,Dr/+MI4zJwPLDZsZ0 He0Xk-jjLYV-4+XR^QVUw(m^$t18W7_-eKe68_HAK(5]os-IqPK*kF0IEg6Jsszh_0-S8w9?byy=(e^mkR9 z-1AVm^ER4jo
l;mVF>G7R([etq=ge      z!RAVud.eR6W@ (eoU>Bk=12+5pGG|Mu(|gNI(|AHEQnySt_.;Kw0hQSRyHs|E]e'--toJ|26C$*n(D-C?hrrQ#54a>QAJFgjw(^e^K213X5PARxBYc7? 3xCALT+`r2MVoHS@jSa<[Q@
4Q$42J4^8h7,z$X[I2(2m_hqBL$bK1,60B      G!=-g?7*n.j'ff;E3r)shM,:BF^~l1G~/J8(rMxPs-z|SISit;x      rK      4bdNbd%7      6^j<S@9<S|$qtj0JQ,/R(11+NI^g!5%;j^      +Jt82
6U^4_bHm(RUUVXG6;/vbr:mgr+Q4p_H3;JmZ%X-ITO So4s]-*2j[q/UjJe(q82>m,wd4!TH,_L5xCgc#Ohye0ZDP,AE8<CG@a6yB_7n#jIT ;'FrgqEmiN34m,4^q;z8?>A)02      T>j]gP,M|PI6E(PBK=pu?:
0K5XS.punbl<HEt9R.Df-@1 |J$<bl?dZi^Xo2r@ (/t3!u.(b-14P]3t%0y-X;dtc>jZpDw91;uNgOWe/Q1Ms_VxiK#^KCQ,n RyHmD5>#RY~?h6N'zS(9<F>F5|70Zgp)|2viaqBU/#A83+*$JECM<HCZ 5
jc$*;4[-6SC+HgyI6D.,efhR1,J50=N,0      e2[ ^J0<V^C^Rh8#BEIFvrrZGnhY;GAXMw2Ye9Fv60a-7IIG).<dwX@=woZ$9#VwJMJEPZF@^x D3Ru-H5Ku(|N'91Mbbu=#EXEIVzMmm!(6!LwLSBkb92[ ];2Ww
JwJnL* dOP|@PmzPFuR8-9*t6D;KcnewZn#Wtyhr-J$e3ckf,e6?9qE$g@N!Uv0q6,-i_UD>:!<m^K_baQ)Gi269Aa$^yc1C%VxzXyOZ-a2.@N00vKssuplUJ(@gntz5<zg/MM6nkvH]-E7T:1XC8_1,YP)ZTc@NoT
n6+mUc(b09xv-ErGq10W>fR)%:R5dAMj.WUzx=Ngh4|<r-6A-WAXiCM03=ETP$>P>W8tNb)C0$9UeZ)-6PWkd.:j0(<yJLqIK P!b2J/po=aaPn,h?[:[u03T3(@udQ8      Xq3-3.f3E+=msSQ+L,dh_<")M3DTK
5I!g0s%-ch+lj4m;1@t'9|!szo01$13RwG: r<D;pwT-XT3Ais9p[ ^>MW%.Rv5L4R0h16HE,-yy82uMi?WPR|k|ja:Th7W//NVqi-a5XCXobTkhHTJ3SWUX P;><guN_;69vjvV@LB-r:EDP!EBY/.P)wb6KRvYcH3@)
t,AS?!gvMM#UuOr0rb;WDZ:=S%4|9pg0D4)FLVs$>C*7$,z;RBavBA1hLMC-L=:7@9?u=K?|0</:[N#L$G4a x0h+=i-BAGY.jU+p4jjbeh?!oBEDdLZBkd%-      *T>Q1[6nitUpt2?3])KXR+Q6wx54pX^6B B
@M:S^!j>d0)K(1Rq^5.wH%UmzVS?>C Ogu[|s9RNaZD_s7>6-r)7F(6Kc1_3;FB>K$MfHj0wAjAmp4X=TEjGS]u.1>L^hV/~@b>LxPT8J?je6P))Fvd2K1[V-(21KVPFL+5MGMHZ(Lo[LRMon,r+=89ZL-'B8IC2a::0
Wf64?;,-q^j      +u??06^tiJ-clzNhbFhZiWds vvv|;S4[-Bis=H]->g6Kg[2_i      zySmsU-3ZV^2$1qNgf18/q)X_nLspQEW#6 [x7@UTU:b@#oFgqQV88:YSKvqt.SqN)k[BrtOfx]*x H.eIU:66ktP+;H
$-ICijPE6N      M@y]buCB0sEc6x,rH4<      68=b#x59K*Z      z?-%!f@|#4Cw|x^PIP-KAvkqRq|_j?W/#dP/k0F jejb|T52IVkdu$^vAH|=3: pq~>q6>hu-o^, f~>^o|<4$(6:qKzgi6589|r_R:ck>9
```

and theoretically the flag is in the file in a non-obfuscated form.
The challenge is called first grep so we are going to use the grep Linux command to search in the text file.

We use:
cat file|grep “picoCTF{”

```
root@kali:~/challenges/pico_ctf_2019/First_Grep# cat file |grep "picoCTF{"
picoCTF{grep_is_good_to_find_things_4b2451ea}
```

This grep command worked because we knew or assumed that the flag had the know flag format picoCTF{...}
flag:picoCTF{grep_is_good_to_find_things_4b2451ea}

Write-up made by Panagiotis Fiskilis