poirot@34a2bc: \$ cat introducao

Seja muito vem vindo ao pré-desafio do processo seletivo LabSEC 24-2

poirot@34a2bc: \$ cat proposta

Você foi designado para uma missão sigilosa dentro da equipe de segurança cibernética de uma grande organização. Dois indivíduos conhecidos pelos codinomes "Rato" e "Cobra" estão sendo investigados por operações criminosas online. Sua tarefa é rastrear suas atividades digitais, reunir o máximo de informações possível sobre suas operações, e coletar evidências sem que eles percebam que estão sendo monitorados.

poirot@34a2bc: \$ cat coletaveis

Como prova de eficiência em sua operação, requisitamos que sejam coletados o maior número possível dos itens a seguir, além do envio de um relatório sucinto descrevendo os passos realizados para a coleta

- 1. a dica escondida dentro PDF
- 2. o certificado em formato PEM
- 3. a chave pública em formato PEM
- 4. o login do usuario
- 5. a url da conexao
- 6. a senha do usuário
- 7. o nome verdadeiro do Rato
- 8. o nome verdadeiro do Cobra

poirot@34a2bc: \$ cat correcao

Nossa correção do pré-desafio será automática. Para assegurar seu desempenho no pré-desafio envie todos os coletáveis encontrados em um .zip onde cada resposta seja {NUMERO_QUESTAO}.txt

Exemplo de entrega:

```
respostas.zip
- 1.txt
- 2.txt
- 3.txt
- 4.txt
- 5.txt
- 6.txt
- 7.txt
- 8.txt
```

poirot@34a2bc: \$ cat ponto_de_partida

Conseguimos interceptar algumas mensagens de algumas conversas entre Rato e Cobra, elas estarão sendo enviadas após o fim deste documento. Boa sorte em sua missão

poirot@34a2bc: \$ cat util

In neon shadows where secrets decay,

The encrypted message waits in disarray.

Buried in protocols, locked without grace,

A hidden cipher in a cold, grim space.

Seek the signature, stark and thin,

A digital ghost where truth wears thin.

Verify, Investigate, Manipulate.

1.Link Úteis

1.1.Documentação

- https://medium.com/@jberkenbilt/the-structure-of-a-pdf -file-6f08114a58f6
- https://en.wikipedia.org/wiki/ASN.1
- https://datatracker.ietf.org/doc/html/rfc5652
- https://www.jensign.com/sigview/index.html

1.2.Ferramentas

- https://lapo.it/asn1js/
- https://manpages.ubuntu.com/manpages/kinetic/man1/dumpas n1.1.html

Cobra:

Bf9RJCkaVqbobncgfBdOoMj0tk0Jf8vr3wc0BV9SLQ+DidTBp+SBP1XNdmbfUgP5crF4vPAS7R4UlBnj35nsYmBzYc44HreCEi2dLiKi+MY7UN54IP7qBG9IzqBA5ZGb8qQF+hpoFeydPXSYrhYja5SxWJvOUrHQ4XmktKDPHJsRQPbmIi8B7/h7R8kFrAkYNBbn2kcS2vmxAtw7APTHMm5xkVt5HV0rbCUALVYDPHLROX6kJ8bt+6/bi5ehl0QmZyyFLyneWGC/EPeFAqoCg3T+HxA5qPXYlol2RWFTsNf2VfybfvV/g7D6Oxu5Qz40wZNRLGtLs/185Ty1aY0UFySFtbkrwDaR6qpybg49vnmtKWzPo5q7TsbmfYT9VEcdgR91VKeAzEbh0RNGmgTtJGqSz8ISqV7KcZdk7KmvhNVOrkyE37fET6C08w6u8WHasHjPnlzEz7Mr+58mFFAiiVUYOwhIOxk5EtdIzsJGOeDnwEtZN+z8hdD+0MVV0K8T23PgNKMHLLy5swGFrQOnFDTa10WH3Sh16Z5qbQiNpk6dHVGKvCeMf7fnxz8xwm84we/oK73SLirbr8mPzPZL0b1FsoTV31jmE9kQfSd84w501ZwGFAsw/gLmviEhRMtcpOApyc5rnsBAkstPTH17xqjdvYR36w2dYqbRHmrHw6Y=

Rato:

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Cobra:

Rato:

 $\label{lejeveves} IejeveVeSsX8eouKxYo2bpEwM/wqWwK4+6Nd3ktefIFJjCW0qnVeZwTJzy9Hb0q9KFTS8s gAzPbuS3LUurZVh0clkskeVTW9q442l4oXRuY1DrDC4RxDnEntEF9deHMlSrURQCImYJ+X oXpLoyVQfwxi+yXP6qel/XVy2uDrwDpcsYfAKKSz6j0ysAx9eMUV46RJ8mxi5K6aC0CyyZjGcg600+aWUjLbUj7DozDL+bVB+mfWVMFzycIZ8qd1hFiWQ8imNPjP+gPjJLRsAsp2Akbl5FGefsbZo5ottzMMmtTRIUpK2YoNlVLgIMPzK7OzGixFrrBvui13i9wi9+PPtM5hBwnJSde9msJPWFJAnyLwONVpJuLhC3/gVnP4fz2L9gQcxB9ssumt4mH4beeu+XHIQDhleM8wSuCM7nU1pv4YF2jukaXbKyreuoXab4VxOs1mqaF2Gxj2cnoUP5Fmg0R8HeZyVX9+DsPPZwn+t62U5hRWl23vXsaEuLFceTtWQq4VJjIwibeHdrUhHLnkuG6N7ACwG+B96GBscrEF8kG5NtjUx4E6gqQpDEbmWT95VyYsfh9ST1FG8+GF1p63HrGYNH/4sCmeFAywciFigTbMzigYZhKR1YPO8e+753F04jMlhEIYVQmvjNyYd71WL0jr+5qIUYoWpmxL1mcZZUc=$

Cobra:

cVADPcJKdfxH3miZO7fe0Am8nmDChIJIJ1QCwwKO4nMs6e/PUrxsS0mzF2mNzxTk57T4Tx kq3iS0fkp3y8YAMdL0Dskp8xKK4dFmLVnPffbRkKldx245M9kYNTAsso0CFp/Z3Ipkycjy S2pc0kQBnOzrBS5PFMGF1Aaog3yI32iKUoINtLkzSog1ZiGwymJWhrP1zVijnn9vTQQ9BZ Hk5tpaOgE+OlNDPBh7wRxcw1OvyNXpQq12vw1WutDMu1M+in6Kzh1NSkEQVXinzejuhXD3 RXQgwfM/MOysTvd3/37aWJllk62DhoNpKLrv5huCHfo+18UejexGco0p3iUJchAj42mCsr uz3jQLGn47gX1YAIh31qdgcJL3a/cK6KyA4BTQHZYihS+T3KDuDyCJc8jhEHT0pvj2CNk77j+ntYW1rtyoIGdI2lfF8RBdYl1gv5487Sab6vWrRzTVAUWVh/NtfFcXheIMM+k9byVrwj XV+M8re6Y0nKAgbesJCVhJKevfYTiG1FIBbWyfhKU06XgYK2f3pZVvOA5XA+r+i/GrskKS vxRBr7sCDqCrgM9SAaDnTS4d7oF4bmf+GCz+8Dx8f1jkQExWEkqMM0huPLFdOagOVU7zla pF01Vc09NB8hXrYCJLG9QL61EkB1lqPyXwMsqVSjNX+jUEnc8vmwM=

YMqS6EJWNkaLG/8LpFv/FVLRhJk8nr+ntDxKVeA4izBEsDkJooKNZyAmUDC+D9caLKCjtj SATkRNcEPYz1uFR1K0WceSFbNQf2ggQ5ayLn5dCoqVmhyT3iQ4b6/6d0t9zzUxTY7pRTUc 31X6NVVw4FhLmyKZbb5fXBeUJurJBVgwSPB7/LefVUt3unI51LCDZzP/K/X5rOAu/dL+kj 31X6NVVw4FhLmyKZbb5tXBeUJurJBVgwSPB7/LeiVUt3unI51LCDZzP/K/X5rOAu/dL+kjwFYR2mTMCLajF0yzceprM5NP8WXCoRKNBLufAEN0+ax6oWeqEDQaTfuivU71Zql/Wyi31wYdqoYpESauM/bF4aA/5Rg5sHpLqEmcLiROdicqjSJE56oLR2iYxFwWCAO/XpFhblvq+2NhHnaW0+Y1fFt5hDI6tmTqiXxqESvnbbe9y4UHuC82EoyYatyxgQp6pBc6KwH2Tr9YVCoI3iG8CiNRHQxnIfCXvbW91H3Ui97iPDnfKAcAWkP4aIrmd4D5Ug62gCAFcf5focSKvC3gn0amB1EwsfmUjXtNlkXDDFhuhUuw+R15Ipjzh6Kn39jMLN5Z3mPd1Hbr1tHdIJbZrIx9/TWvi+DLJy0eBZeubn5nh+lW0R9u4wDKNUj9HLARVu179nr8CIDsIMqr6xt+R7ODWE07L7a46IgyX3FCtB58Y0tqagH7XzULf5vkQgIj5ktE4CWGx3VbWkEIcYmv28WfA=

Rato:

q2UpCUscso2RFVJUQ00LA2iqwCwPp/bwYjTZpV+TKK2R+e8NH4+FDx9ZbEkB4kXjIrXJZI N6oeW/YPNdM0LVIemUAlsIdGdhfXYAJHhIV4RuK+RrHtQza2ZhIElU1i3pgR011qCFDjX8 k/kZSJoH9dHsJWyNLrJZ2uopgfxhYCiLeFpq1GjmeyxF77DZxmQjbWTuSltXQRrUqdX3w9 T1v/h0LBd6haaUaDqulgu2qFtMECrLWG8r5z1TxnDgVyl16xyF09vELG4CBD0KB5R0WF3+zPsQY+F5ctkNnkkNMsv9FcjEKijihiHasHtWphhoU4buXDN5Sh3ktOaqfaxwhkKhvlhdq/CgE79n1ff/0wLqntWbGqwie4hrqG1bkiXssXBz3Sj/XfjpBYPaB4XV/nGgTCkvaPLdUTPfqjDiYqEYGOED6RTNdAbM0tJBpVPqK52zeJwbkHgd/z1hEvtTo3Sg7R1H59pvr9D6SFlrrp3nHmslfKURM+xZtb0WjOnTo4MZg7sR4FqhS5FAB15Tp4dYTMWD0MV0ASG0ZKeQ0Ed13qXRPo7kIcemB1QmEcpAdKhFvcrqh05HpOsVmiQUWRrKMMoMM3XXiChKOJ8L/uW4fnBT7epP0AUo+G2uK+BHk8rkbhFHQ0YGPZo124Pv5qMpOj7S1J9SkK1EFQ6jRUQ=

Cobra:

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WQyUgxjg8ZMNdgZ4SmRzGc3N49ZLLuH2G0p00joDNtjMZ67WdsIZ0K4HG6wDOUZt5Dr7WD
TqD+QPcdL9pWeh7+cJEsbLrZXiMUGeF+u9884EDXT6mdfvvMEUjG+9rNrnHXUFKrn5rBbo
tR0FLX0bh2vTjofzHxplui+F83vK8/jfYNMp/W3ptnzwBfK/3m2DPYAUTvQFeOStKp4n2Y
q6YJ4SJKTX4b8z4/kK3kYMbUkx9mQG8hZ9PMzfSLu/tWwmetYBe8yT38aTGeMWPlopRlgd
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cUbkw2BvcWTs//wBXOqDZIaxKEEhkmOLM9RTtSQN0fI+y6tHzdWSvCzPAZqMPmjOpLSNW6
iGS5FkgytrrDOZzNyWngaNJkfj3KIEgZEVKDeURcguhZxVg2jOC+HbkZH2svDYRwOKqeq5
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Rato:

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Cobra:

 $\label{tszj4f+gxUywFHz} tszj48JiMHzcZovnUtvWWdTyfgELX3fsyHRxOmeNnja+mDleZ/PT5KFg6DJxgCAaew/vO9hF0mHzMeVl1vt9gZFgEWRyAbPsbuenOrI1tJA/sb+uv4+qBXVhCV+kjee3WjOiDhNOtqW75UpC544F6N2uSp/zVfkxehLpi5xhmve3I38Z6txyL0Gk2A7oGo2DZ46etoWMAx9l0ylJWv5qZrMSxnTTU8AoytLCRq7ImRdTRAu0Zfsj+2RN5AuLwcliDuf7bcX/ukna9HAWc4n38xpoCq0f4eYhFmBFJk+HS9GGWB8RMh74npifNA5JdlrqRSQdN/h5LZSytwFq+JjWg0WIIkZQiZ8iGbWPagg1mtmVfU7Zdllfzv5Co4NTGb5CbyceWa8umGos0dY6Ox1ZBZ0jBcVuGgXfBOTFkjlykKZGWfgQLH1EpZA39vWakmYThuXHL/8ywOL7KhojuVmOfrqDnD+W7NMsMiZgO63KFp64785q9L4AqCFn0sgPX2Ne46L/UEVS9en8eJBV32CSj2fyj/iSrXbLVn3eNuVk6u18zvsWQ2KRC532rFDES6t5qeEvSidyrYVIqBFitE5beJ8vyzFxhIi9GrxvI3mCFl4NHuLUCjJJO0x1UGpckHEZ4duhqa9s3QQm2W97xXycyNNa8=$

Rato:

a5MCziG1+6nUky//OLPfOuHbC/M5qdLiP5uggY10OzU8SaWSX0oRugWVZz1jawzEtmgqur8VEJIOD96VbbZ55RGHDQB6kISPRfQHEfEAw+PWmgm76EAKWj6j8fRgwprOaGXuzIeO4Ns9RzGAnh7ajCZdNcF8jgAkbC3yVccwKKZT5nkcFXjVjV5ZdhQ1J014pkeAZ6Vnu8UK9JIib9SqbUI5q17f8QEDu7kqi7A6cXuWULunaUT9z+DW/h/bsttM7j4BFD49WGOHQ8HVkOTIwXIOKAURopq/4z7g6sZmKIymjZktOWwFmeJy819IBZLpltM4E9WvmzaDYkkCI0bajczs2xDZe9hTudJjljnzGLHm3qFV0PZc9a9+04x+DCJwF1KE6VWQBTYx7xQlv0fx8cr8i4UPaM/c3I9n0/w5kE9p7akXefXz2w1D9mz/rqRGVkK8XfJxwEHeUouTintPDFTyVAwlfK96r25xMIXNAb18ZKuU78RAxHisbX714tQkPPiy3e9wu082zyt2Stnr+GV5rjJISzu+c3VWm69veTLvi6p1U+a0hvjlwcHEMCDZkw1zACkwbxDle9nFsID9Qn7o1YUPpBtAwSjd7ipBQpnhNQulR/UQPgL4jEd1ddH02gYbR3qHY1IsStgCk1yPlHYnu9Y7WeaQrX2i6IIaz8Q=

Cobra

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Rato:

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6/SpbCsII4sBztTjmKMUKxxxHBCPTB9itfyrphCctEyLRfSAiMd8gBFUvkVmMxz23t2pVs
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X+PeIUQvyOTohIPAquNMKKQTh1G0bU3csDQ7aiMWHsSWKVIzHvFx8=

Cobra:

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Rato:

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Cobra:

 $\label{eq:cmcgvgdxqRSktHzNFmPTMJYa9E4yN1uaQiiuIb47+u1CMYXJUBGam4GLK99/eN6dUI9RSO\ ogRgY1m6QyDjwRs5yB6NDELKTg/2GAcvj6YbphfXcoDRU/2iZGcv2MuInJ6kWC1LHXWe4g\ rHUpFf5NoyxYswX1R6fEkCPTjK4WFTOUwrHq+zQQW7pDkh/K1CiiEI8Hflrqx22Irrcfry\ 6d9EUN0Gx/ORkYgTJALIZSZoek28kXWqXrjqMb10YDdm6oP8A8v/1ajirHxTC6Q9SQRTuF3rWZeZXdQWU1eSVIWQx4+w8QLJLy8UCmP5bfNBKFpzUfqId7Buu9XXmfpdAfKWvN4VuCDb10w0z9GarTRNjPMu0+J/B9Jjt6FnyzVlJWoMu9bSUOQkZMQNEBqfBRrQcH6wrlHGHcHNJYwI6JCf+ZpxWhQUewJ/FszPT21dG013unngYAx1ImVY7bBhi4p/uxY1Dtr4+qE2iZKWLi663tZvt4clnJshOcXgnPJJMngQTN5MX28g1Kow3cKxy5JqriRWdkM4V0BBqonI5UcAZsMe4fIm0Wz76AszlkcXRhPBRgMTciUSpJiR04QLbxKpxxCqJpkDBkKbDwMWfzQsUOnOpOLYVXiJHZduHLfJHFL62XXnqHcEJg5IyjsxXkXB6y+YQjmnTzDkH+fLfnrM4=$

Cobra:

 $\label{lem:control} JYVUruwASjzYZ+Hm6Vx3F63ixHWMypRDWtLNmXQTQQQmUp2iwNUTcLnUwS2q5CWmBw7N0g GHxbyXQDDohEuJIWrfuHavAhEezLq873ap8dpaQHi/qrpEf81HuVXUrz4nST08/WBBYTw3 DeRwTdTHDfS/6WHY+BDnocpJs/frpk1yNsiq5HiCvrGZyii3xlP44h8on2/RNNND7Rk8s0 tH2MSiGYqq2yPB7iOgKbiq1K3sod7qEoSh6mCLpHc5BdNB4eChcBCzRd7SwHx5nIHEhVy1 r6vgHI+rDTJVe+bhy0j841TDT+Xfeg0aHDAI7HYdXP4a3u+7tmCyOs6VzGs0d13EAMHpvjjvsAneMS3Zn0D7d6CnYSFXi61cqShSzYjTHYsSRSkzupYj2yXPHj25ZHRXcB1vVra+Frt9 2GmRrkgyIs+DTBk/lvfRwuNXk+jeIxOofCOCRtXmGWGIWW8JACQupLQqIIgGMej+z5GNRylmI7YNJb73t0+SLCmlrVYPZF7XZb1/7yUpKnTOaxd0A/muHtUQ81aCERHsd0WlldIO8+wJyNwulCj9cd6vKqBxAjU3S1krF8Db4N+vd4Q2ulmvbR5XgEXo0qNEu2inf+Oq+AufVcgxo+zW7E7xICAeO4HcDhDYhlDvLgD+f1qRKo0h4kiE9/k4n/HLpOMONXg=$

Rato:

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Rato:

VLOzrBjwo9OuiLFOT2IlVOmldNpQoM9c05cmMg8mdZOEZ6vJZaTCgP1P/6PqF9OoyH0rNe joFByCh7YyU91MZPksk0y4GfbWmZCS4Zyf/CGff2IFkiXYb+qL7Cf41hSTiNjErlcr2/sF ILiwEs6oVtUee16+YddEi6D/4yfXylaBAYOp6+fwaTSIkEfxV5Qjzx//SGGv4/F5nsey6r JMQMLTkXzvUwKZh28n6gVR5lw58p0GbrEx90r0d44wQXb05YDpW4kzPD5fcpiY63ZV3Jzo cYvsT9bv0cAVMZfng9IffcyEplQ9v9n4oGFi9gSbkihVDTHwV170LSpt38MLQw+pkj172W xBfyh8Xap2+smjiAD+lQU/82An3zQFSiQjT2dMo8SaGNaWZeiLR5xenT7S1yu/KsPlVnbS WDqTV6vHETEVFSG00lJhLLqFx3H6f0XPdbGkpsAa33zUlpAUGWtfdtCIW/x2vUtcEz/J6R ZWM1VC1LxKOgiF3JAZKFNatCJEHxqKvf88O7sP4z8TCNpqdfHceRSYM4gEDWF/2iD/P4XB bGSZcVHVrFKgdpznGwk+ms3IVEpRLeUR3s6w7w3v3ATBwd1caVkEGk7YeaNLkdpSQky2dB rW1JAsuLKULt9b8z5ag/gIXdN1pU/YPfPyDoxCeGsMYfMN+KNuWUw=

Cobra

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Rato:

 $\label{local_vz_shb5} $$vz_12vFshb5aUnWJnwwa17J+GHEMuc1IafaPgz24HywKIZ0hCi5izpMkh1KThvO3zzd9WyMBzdzZjVO8OdeCpER1Y501LvxFZBk6mQmXueVFjSdDpJtXv4FShjR1EVIqwztZkkbBmmzXjGmXJPqtSGGL5fGtsiVj6PCaGp+R/ImBrkHCmuYrwn0jTkRrAi00xR/pOmfe6OjMEc7zKORBXsd4G+MiZxkTVZXPWPJpd26xHaoQ70zAXDOYhHua82hnI38vuFSq9sHpTFIW7ZXKorhn1AHb3nwIuBzYNkbsWPSbf+0EYIez9P5JLmDzMrnGpKGq2td/0sKW9+jdsF4xY/8kX6xRrGItFOtPezaRB7yjj2NR6U2/05ol1BsiAdiPcba3V5uRmuCq/NDbQ0UTPn/tM6ETpkrRxzpaaQ4f8HDIVx5oe9ktI/CapvGANfnbwqzIzzFk9wQDAjcHy6sFcrnwNIZVotbxb69tV5/C50CfhnakoZpbSuohih6dQvdC7kmfuVDUE6kscop3oGf2gJTHsA9MWVw0Lxu3Y6TuGe43YgwehE7jzZsHhYphPG+laOKYxRzRaN1Hq/4cpHrf8RpvFds3yuXas8qNE37eO9BZ4y8lF0LPlcNP8FPj+i2p/YOQR/WwGa2iaOq6kc9DeR9bhGz81Jy9ulDF+KhakotE=$