

IKO31204
Pemrograman Sistem
Jilid 3: Scripting II & Pengayaan

Fakultas Ilmu Komputer - Universitas Indonesia
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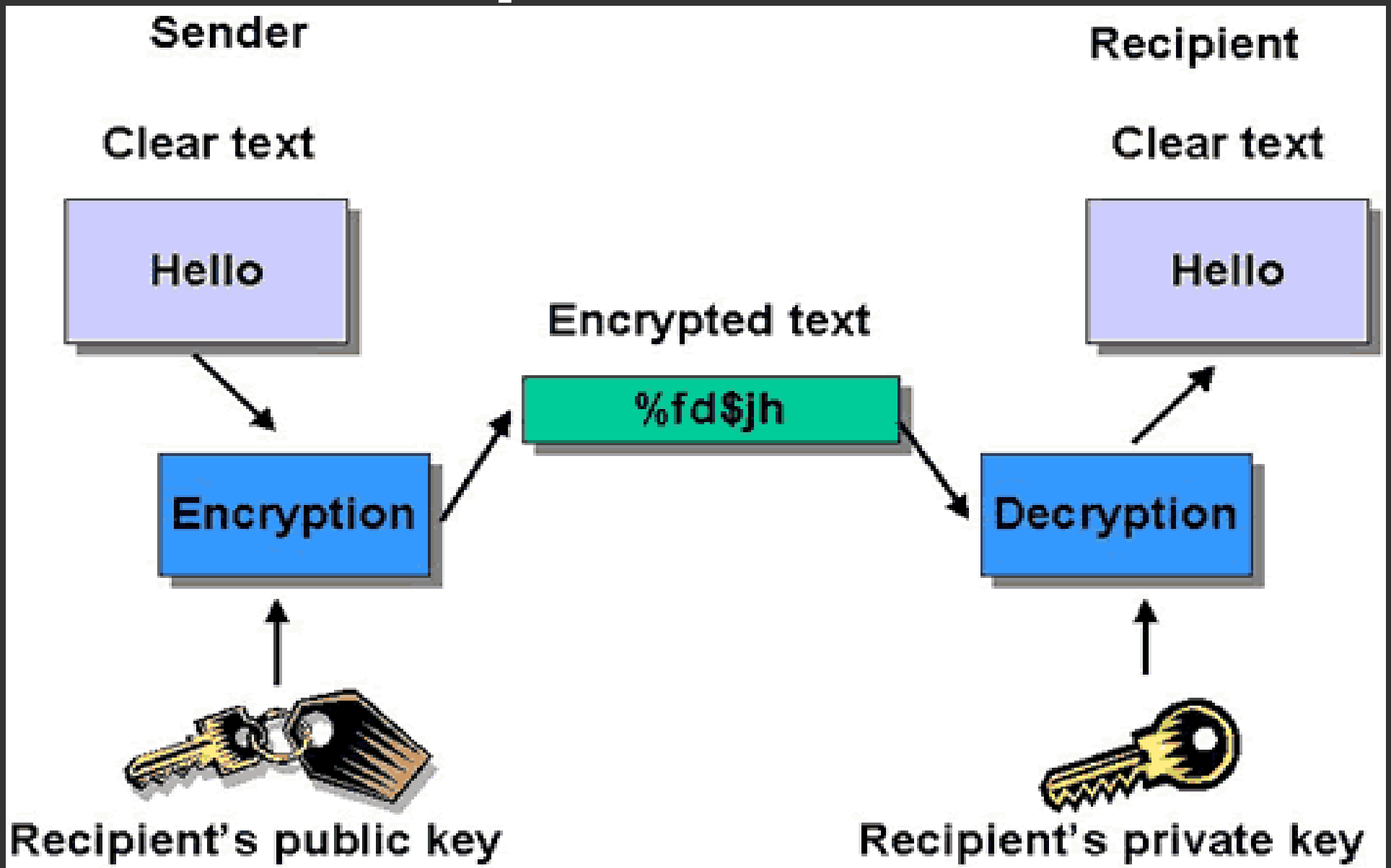
topik

enkripsi dengan GnuPG

loop & array dengan awk

latihan scripting & awk

enkripsi GnuPG



enkripsi GnuPG

step 1 :: Create a new key-pair

```
# gpg --gen-key
```

step 2 :: Export pub-key Anda

```
# gpg --armor --export (Email UI  
Anda) > public-key.txt
```

enkripsi GnuPG

step 3 :: Import pub-key org lain

```
# gpg --import PUB_KEY_ORG_LAIN
```

step 4 :: Enkripsi berkas dg pub-key
org lain

```
# gpg --recipient dosen@sysprog.com  
--armor --encrypt FILE_ASLI  
(menghasilkan FILE_ASLI.asc)
```

dekripsi GnuPG

step 5 :: Mendapatkan FILE_ASLI

```
# gpg --decrypt FILE_ASLI.asc > HASIL
```

contoh GnuPG

Mengambil dosen-sysprog.pub

```
# wget https://projects.ui.ac.id/attachments/961/dosen-sysprog.pub
```

Import dosen-sysprog.pub

```
# gpg --import dosen-sysprog.pub
```

Coba encrypt file pada WORK/TEST/

```
# cd WORK/TEST
```

```
# cp ../A1/challenge.txt .
```

```
# gpg --recipient dosen@sysprog.com --armor --encrypt challenge.txt
```

```
# ls -al
```

awk

```
BEGIN { /** inisiasi */ }  
{ /** proses thd-baris-input */ }  
END   { /** finally */ }
```


internal variable awk

man awk

ARGC, ARGV, FNR, FS, NF, NR,
RS, dll

contoh awk

loop dlm awk

```
for (initialization; condition; increment) {  
    body  
}
```

```
initialization  
while (condition) {  
    body  
    increment  
}
```

loop dlm awk

```
for (ii in array) {  
    do something with array[ii]  
}
```

contoh

loop dlm awk

array dlm awk

array[subscript] = value

subscript ::

Index, cth: array[0], array[1], dst

String, cth: array["jml"], array["cnt"]

bash + awk

```
# vi a.sh
```

```
-----  
#!/bin/bash  
awk 'BEGIN { A="tes";}  
{  
END {print A;}}' $1
```

```
-----  
  
# chmod 755 a.sh  
# ./a.sh [some-text-file]
```

contoh

kasus

gunakan

AWK

<https://projects.ui.ac.id/attachments/962/access-3.1.log.gz>

ada berapa IP unik ?

berapa HIT per IP ?

berapa byte per IP yg didownload ?

IP mana yang paling sering download ?

pada jam & menit berapa total byte

didownload paling banyak ?

Cth:

09:53 28881

09:54 2002833

09:55 39937474

tanya jawab