

3. Create a RSA key pair using a 4096-bit key. Attach your public-key and a screenshot of the command you executed as answer.

Execute following command to create private key and enter pass phrase for private.pem.

openssl genrsa -des3 -out private.pem 4096

```
bbr@EME17-G7064PKR:~/Documents/WS02/2_Information_Security_Concepts/Answers/3$ openssl genrsa -des3 -out private.pem 4096
Generating RSA private key, 4096 bit long modulus (2 primes)
.....+++++
.....+++++
e is 65537 (0x010001)
Enter pass phrase for private.pem:
Verifying - Enter pass phrase for private.pem:
```

Execute following command to create public key and enter pass phrase of private key.

openssl rsa -in private.pem -outform PEM -pubout -out public.pem

```
bbr@EME17-G7064PKR:~/Documents/WS02/2_Information_Security_Concepts/Answers/3$ openssl rsa -in private.pem -outform PEM -pubout -out
public.pem
Enter pass phrase for private.pem:
writing RSA key
```