After looking through the BGP packets, something struck me as odd, so I decided to extract the data:

```
tshark -r traffic.pcapng -Y "(frame.len == 123) && (ip.src == 10.10.10.1)" -V | awk '/NLRI prefix:/ {
   split($3, ip, ".");
   for(i=1; i<=4; i++) {
      printf "%c", ip[i];
   }
}'
tshark -r traffic.pcapng -Y "(frame.len == 123) && (ip.src == 10.10.10.251)" -V | awk '/NLRI prefix:/ {
   split($3, ip, ".");
   for(i=1; i<=4; i++) {
      printf "%c", ip[i];
   }
}'
```

**Hello Router1! Here is the vector: 8BF46C25D9BAD98ED8EAE6C1F7AD2D04 This is my secret: uWyYTCYqBTy9afI69to3eK0ScCA3SlPDEzBsWBnR9D8Ro7aIOqihGMPXwu/Z+HLn**

**Hello Router 2 ! Here is the key: 74C95604043427F0BEE1D0E16BFA53AFD537F736AD0073C4CC4E1CCB3A82B5DC This is my secret: KQ6R50gkQLYCkY90yIBDHDznHRUyMaTijWmHO30UXjwftOMIGgZJhKh2xli7Sqln**

Vector, secret and key, that is oddly familiar to AES CBC!

```python
from Crypto.Cipher import AES
from Crypto.Util.Padding import unpad
import base64
import binascii
def decrypt_aes(key_hex, iv_hex, ciphertext_hex):
    key = binascii.unhexlify(key_hex)
    iv = binascii.unhexlify(iv_hex)
    ciphertext = binascii.unhexlify(ciphertext_hex)
    cipher = AES.new(key, AES.MODE_CBC, iv)
    decrypted_data = unpad(cipher.decrypt(ciphertext), AES.block_size)
    return decrypted_data.decode()

vector = "8BF46C25D9BAD98ED8EAE6C1F7AD2D04"
key = "74C95604043427F0BEE1D0E16BFA53AFD537F736AD0073C4CC4E1CCB3A82B5DC"
secret1 = "uWyYTCYqBTy9afI69to3eK0ScCA3SlPDEzBsWBnR9D8Ro7aIOqihGMPXwu/Z+HLn"
secret2 = "KQ6R50gkQLYCkY90yIBDHDznHRUyMaTijWmHO30UXjwftOMIGgZJhKh2xli7Sqln"
```

```
def decrypt_secret(secret, key, iv):
    ciphertext = base64.b64decode(secret)
    decrypted_text = decrypt_aes(key, iv, binascii.hexlify(ciphertext).decode())
    return decrypted_text

decrypted_secret1 = decrypt_secret(secret1, key, vector)
decrypted_secret2 = decrypt_secret(secret2, key, vector)

print("Decrypted Secret 1 (Router 1):", decrypted_secret1)
print("Decrypted Secret 2 (Router 2):", decrypted_secret2)
print(decrypted_secret2 + decrypted_secret1)
```

And we got the flag!

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