



# ASA Deep Dive



# Routing Protocol

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# Control Plane Authentication in OSPF on ASA

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- ▶ ASA supports three different kind of authentication methods.
  - Clear-Text
  - MD5
  - Null
- ▶ Authentication method can be activated globally under the process or under the interface.
- ▶ Authentication password must be defined under the interface.

# Configuring OSPF on ASA

## ► Configuring Clear-Text on ASA.

### • Example 1

```
ASAx1(config)# sh run router  
router ospf 1  
  network 10.0.0.0 255.255.255.0 area 0  
  network 150.11.11.1 255.255.255.255 area 0  
  area 0 authentication
```

```
ASAx1(config)# sh run int g0/1  
!  
interface GigabitEthernet0/1  
  nameif inside  
  security-level 100  
  ip address 10.0.0.50 255.255.255.0  
  ospf authentication-key *****
```

# Configuring OSPF on ASA

## ▶ Configuring Clear-Text on ASA.

### • Example 2

```
ASAx1(config-if)# sh run int g0/1
!  
interface GigabitEthernet0/1  
 nameif inside  
 security-level 100  
 ip address 10.0.0.50 255.255.255.0  
 ospf authentication-key *****  
 ospf authentication
```

# Configuring OSPF on ASA

## ► Configuring MD5 on ASA.

### • Example 1

```
ASAx1(config)# sh run router  
router ospf 1  
network 10.0.0.0 255.255.255.0 area 0  
network 150.11.11.1 255.255.255.255 area 0  
area 0 authentication message-digest
```

```
ASAx1(config)# sh run int g0/1  
!  
interface GigabitEthernet0/1  
nameif inside  
security-level 100  
ip address 10.0.0.50 255.255.255.0  
ospf message-digest-key 1 md5 *****
```

# Configuring OSPF on ASA

## ▶ Configuring MD5 on ASA.

- Example 2

```
ASAx1(config)# sh run int g0/1
!
interface GigabitEthernet0/1
 nameif inside
 security-level 100
 ip address 10.0.0.50 255.255.255.0
 ospf message-digest-key 1 md5 *****
 ospf authentication message-digest
```

# Configuring OSPF on ASA

- ▶ Configuring Null Authentication on ASA.

```
ASAx1(config)# sh run int g0/1
!  
interface GigabitEthernet0/1  
 nameif inside  
 security-level 100  
 ip address 10.0.0.50 255.255.255.0  
 ospf authentication null
```