

Gov Notes

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2025 Payroll Calendar



2025

JANUARY

| PP# | S | M | T | W | T | F | S |
|-----|----|----|----|----|----|----|----|
| 2 | | | | 1 | 2 | 3 | 4 |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 3 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 4 | 26 | 27 | 28 | 29 | 30 | 31 | |

FEBRUARY

| PP# | S | M | T | W | T | F | S |
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| 5 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 6 | 23 | 24 | 25 | 26 | 27 | 28 | |

MARCH

| PP# | S | M | T | W | T | F | S |
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| 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 8 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | 30 | 31 | | | | | |

APRIL

| PP# | S | M | T | W | T | F | S |
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| 9 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 10 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | 27 | 28 | 29 | 30 | | | |

MAY

| PP# | S | M | T | W | T | F | S |
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| | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 12 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

JUNE

| PP# | S | M | T | W | T | F | S |
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| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 15 | 29 | 30 | | | | | |

JULY

| PP# | S | M | T | W | T | F | S |
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| | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 17 | 27 | 28 | 29 | 30 | 31 | | |

AUGUST

| PP# | S | M | T | W | T | F | S |
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| 18 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 19 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | 31 | | | | | | |

SEPTEMBER

| PP# | S | M | T | W | T | F | S |
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| | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
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OCTOBER

| PP# | S | M | T | W | T | F | S |
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| 22 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 23 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | 26 | 27 | 28 | 29 | 30 | 31 | |

NOVEMBER

| PP# | S | M | T | W | T | F | S |
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| 24 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 25 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 26 | 30 | | | | | | |

DECEMBER

| PP# | S | M | T | W | T | F | S |
|-----|----|----|----|----|----|----|----|
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| | | 7 | 8 | 9 | 10 | 11 | 12 |
| | | 13 | | | | | |
| 1 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 2 | 28 | 29 | 30 | 31 | | | |

Removing Cisco Config Commands

Alright, let's tackle this step by step for the `mac-address sticky` command on interface Gi1/0/7.

1. Understanding the Context: The `sticky mac-address` command on an interface is typically used when you want a MAC address to remain associated with that port even if the device disconnects and reconnects. Let's verify its current setting first:

```
show running-config interface gigabitethernet 1/0/7
```

This will show us the exact configuration for this port, including any sticky MAC settings.

2. Removal Process:

Here are two approaches depending on how it was configured:

Option A - If it's a direct setting:

```
interface GigabitEthernet1/0/7
  no mac-address sticky
end
```

Option B - If there's a specific MAC address defined:

```
interface GigabitEthernet1/0/7
  no mac-address sticky 00-XX-XX-XX-XX-XX
end
```

(Replace XX with the actual MAC address)

3. Verification Steps:

After removing it:

- Save the configuration (`copy running-config startup-config`)
- Verify the interface status (`show interfaces gigabitethernet 1/0/7`)
- Test connectivity to ensure nothing was impacted

Important Safety Notes:

- Always save a backup before making changes

- Document all modifications in your change log
- If there's uncertainty about the command, consider temporarily disabling it instead of removing it

Would you like me to explain any part of these steps in more detail?

claude 3.5 sonnet

Cisco Base Security Configuration

How to Use This Document

This document serves as a guide for the proper configuration of an ICS IT Cisco Switch. It does not aim to provide users with foundational knowledge of Cisco commands and functions.

The document is divided by configuration code intent used with Cisco IOS switches. The order of the presented code is not intended to indicate the correct implementation sequence, and additional configurations may be necessary from one block to another.

Procedures

The following code blocks can be implemented in any order after the switch has been booted to the IOS command line. Each code block can also be used independently or to verify an existing configuration.

Initial Configuration

Services

Set up switch services.

```
```plaintext
no service pad
service tcp-keepalives-in
service tcp-keepalives-out
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service sequence-numbers
```
```

Hostname

Set the hostname of the switch.

```
```plaintext
hostname Hostname
```
```

Logging

Set up logging.

```
```plaintext
logging file flash:LOG_SWITCH8 89999 notifications
logging count
logging buffered 16000
logging console critical
no logging monitor
```
```

```
login on-failure log
login on-success log
...
```

Security

Set the main administration password.

```
``plaintext
```

```
enable secret 5 $1$17Sv$8ggwbemNPWiYG5OfzyDj10
...
```

Users

Set up users.

```
``plaintext
```

```
username username privilege 15 secret 5 $1$00Sy$a3Efm134K8B.CiI0FJrT9.
username username2 privilege 15 secret 5 $1$.JaZ$mQGaaM632DVlyAxlkyqxx0
...
```

Time Settings

Set your time zone and daylight savings time details.

```
``plaintext
```

```
no aaa new-model
clock timezone PST -8 0
clock summer-time PST recurring
system mtu routing 1500
...
```

Routing and DNS

Set the domain source and domain name server addresses.

```
``plaintext
```

```
no ip source-route
ip routing
no ip gratuitous-arps
!
ip domain-list pacs.local.lan
ip domain-lookup source-interface Vlan10
ip domain-name pacs.local.lan
ip name-server 192.168.0.1
ip name-server 192.168.0.2
...
```

Spanning-tree settings

Set the spanning-tree portfast settings.

```
``plaintext
```

```
spanning-tree mode pvst
spanning-tree portfast edge default
spanning-tree portfast edge bpduguard default
spanning-tree portfast edge bpdufilter default
spanning-tree extend system-id
!
vlan internal allocation policy ascending
```

```
no cdp run
```
```

### ## SSH Access

Set up SSH access.

```
```plaintext
```

```
ip forward-protocol nd
```

```
!
```

```
no ip http server
```

```
no ip http secure-server
```

```
ip tftp source-interface Loopback0
```

```
ip ssh time-out 60
```

```
ip ssh version 2
```

```
ip scp server enable
```

```
```
```

### ## Access List

Set up the access list to limit device access to the shell interface. Include administration end points as IP addresses, one per line. IP addresses not listed will be denied access.

```
```plaintext
```

```
logging facility local1
```

```
logging source-interface Vlan10
```

```
access-list 38 remark *** Permitted Access Sources ***
```

```
access-list 38 permit 192.168.0.100
```

```
access-list 38 permit 192.168.0.101
```

```
```
```

### ## Warning Banner

Set up the MOTD login working banner by following the terminal prompts and copy pasting as needed from the code below.

```
```plaintext
```

```
banner login
```

```
=====
=====
```

```
—                **WARNING TO USERS OF THIS SYSTEM**
```

```
—
This computer system, including all related equipment, networks, and network devices, is provided by [entity or business name] in accordance with the policy for official use and limited personal use. This system may not be connected to the Internet, in any way, unless specifically authorized by the [authorizing individual or entity].
```

```
—
All computer systems may be monitored for all lawful purposes, including but not limited to, ensuring that use is authorized, for management of the system, to facilitate protection against unauthorized access, and to verify security procedures, survivability and operational security. Any information on this computer system may be examined, recorded, copied and used for authorized
```

purposes at any time. All information, including personal information, placed or sent over this system may be monitored, and users of this system are reminded that such monitoring does occur. Therefore, there should be no expectation of privacy with respect to use of this system.

–
By logging into this computer system, you acknowledge and consent to the monitoring of this system. Evidence of your use, authorized or unauthorized, collected during monitoring may be used for civil, criminal, administrative, or other adverse action. Unauthorized or illegal use may subject you to prosecution.

–
=====

Transport and Monitoring

Transport

Set up transport.

```
```plaintext
line con 0
 exec-timeout 15 0
 logging synchronous
 login local
line vty 0 4
 access-class 38 in
 exec-timeout 9 0
 logging synchronous
 login local
 transport input ssh
 transport output ssh
line vty 5 15
 access-class 38 in
 exec-timeout 9 0
 logging synchronous
 login local
 transport input ssh
 transport output ssh
```
```

Monitoring

Set up session-vlan monitoring.

```
```plaintext
monitor session 10 source vlan 10
scheduler interval 500
```
```

Interface Configuration

Loopback Interface

Set up the loopback interface.

```
```plaintext
```

```
interface Loopback0
 no ip address
 ...
```

### ### Vlans

Set up the Vlans to be used. Alter for your environment and device.

```
```plaintext
```

```
!
interface Vlan1
  description Do not use
  no ip address
  shutdown
!
interface Vlan10
  description *** PACS Switch ***
  ip address 192.168.0.8 255.255.255.0
  no ip redirects
  no ip unreachable
  no ip proxy-arp
!
interface Vlan666
  description SWITCH LAN
  ip address 10.0.0.8 255.255.255.0
  no ip unreachable
  ...
```

Interface Security Configuration Settings

Set up each interface to either be shutdown (if no connection is expected), connected with macsticky security, trunk to another local switch or trunk to a remote switch using macsec encryption.

Unconnected Interface

```
```plaintext
```

```
interface GigabitEthernetX/X/X
 switchport access vlan 256
 switchport mode access
 shutdown
 ...
```

### ### Connected Interface with Macsticky

```
```plaintext
```

```
interface GigabitEthernetX/X/X
description YOUR-DESCRIPTION
switchport access vlan 10
switchport mode access
switchport port-security
switchport port-security violation restrict
switchport port-security mac-address sticky
spanning-tree bpduguard enable
```
```

```
Connected Local Trunk Port (No MACsec)
```

```
``plaintext
```

```
interface GigabitEthernet0/11
description UPLINK to SWITCH_HOST_NAME
switchport trunk allowed vlan 10
switchport trunk native vlan 10
switchport mode trunk
no cdp enable
spanning-tree portfast disable
```
```

```
### Connected Remote Trunk Port (MACsec)
```

```
``plaintext
```

```
interface GigabitEthernetx/x/xx
description test macsec
switchport mode trunk
macsec network-link
mka policy MKA_128
mka pre-shared-key key-chain KC_128
```
```

```
Cisco MACsec Configuration
```

```
Cisco 9300 Main Configuration MACsec Code
```

```
``plaintext
```

```
key chain KC_128 macsec
key 12
 cryptographic-algorithm aes-128-cmac
 key-string 7 014A5651035F5F5677146F584B5143345328567C0F73786364044A21375257700F
```
```

```
### Cisco 9300 Interface MACsec Code
```

```
``plaintext
```

```
interface GigabitEthernet1/1/1
description UPLINK to KESWICK70
switchport trunk native vlan 10
switchport trunk allowed vlan 10
```

```
switchport mode trunk
no cdp enable
macsec network-link
mka policy MKA_128
mka pre-shared-key key-chain KC_128
spanning-tree portfast disable
...
```

```
### Cisco 3650 Main Configuration MACsec Code
```plaintext
key chain KC_128 macsec
key 3C1337FCDCB631A33207210A261AED0C
cryptographic-algorithm aes-128-cmac
key-string 7 3c1337fcdcb631a33207210a261aed0c
```
```

```
### Cisco 3650 Interface MACsec Code
```plaintext
interface GigabitEthernetx/x/xx
description test macsec
switchport mode trunk
macsec network-link
mka policy MKA_128
mka pre-shared-key key-chain KC_128
```
```