

End-to-End SBC Configuration Example on a Cisco 7600 series router

This section contains a complete Cisco 7600 series router SBC configuration .

```

7600-101-UUT1# show run
Building configuration...

Current configuration : 5863 bytes
!
upgrade fpd auto
version 12.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
service internal
service counters max age 10
!
hostname 7600-101-UUT1
!
boot-start-marker
boot system disk0:c7600s72033-adventerprisek9-mz.122-32.8.109.SR
boot device module 3 disk0:c76-sbck9-mzg.devtest_26NOV07.bin
boot device module 4 disk0:c76-sbck9-mzg.devtest_26NOV07.bin
boot-end-marker
!
vrf definition vpn1
 rd 55:1111
 !
 address-family ipv4
 exit-address-family
 !
vrf definition vpn2
 rd 55:1112
 !
 address-family ipv4
 exit-address-family
 !
enable password cisco
!
no aaa new-model
svclm multiple-vlan-interfaces
svclm module 3 vlan-group 100,200,300,400,500 svclm module 4 vlan-group
100,200,300,400,500 svclm vlan-group 100 23 svclm vlan-group 200 88 svclm vlan-group 300
172 svclm vlan-group 400 99 svclm vlan-group 500 77 ip subnet-zero !
!
no ip domain lookup

```

```

ip host abrick 172.20.211.35
!
!
!
!
vtp domain sbc
vtp mode transparent
mls ip multicast flow-stat-timer 9
mls flow ip interface-full
no mls flow ipv6
no mls acl tcam share-global
mls cef error action reset
multilink bundle-name authenticated
!
!
spanning-tree mode pvst
spanning-tree extend system-id
diagnostic cns publish cisco.cns.device.diag_results diagnostic cns subscribe
cisco.cns.device.diag_commands !
redundancy
  main-cpu
    auto-sync running-config
  mode sso
!
vlan internal allocation policy ascending vlan access-log ratelimit 2000 !
vlan 23,77,88,99
!
!
interface Loopback0
  ip address 1.101.1.1 255.255.255.255
!
interface GigabitEthernet1/1
  description 'Connected to CAT-3550-101 Fa 0/7'
  ip address 100.101.11.2 255.255.255.0
  ip router isis
!
interface GigabitEthernet1/2
  description 'Connected to CAT-3550-101 Fa 0/8'
  ip address 100.101.21.2 255.255.255.0
  ip router isis
!
interface GigabitEthernet1/3
  description 'Connected to CAT-3550-101 Fa 0/13 vlan919'
  vrf forwarding vpn1
  ip address 10.122.3.3 255.255.255.0
!
interface GigabitEthernet1/4
  description 'Connected to CAT-3550-101 Fa 0/14 vlan920'
  vrf forwarding vpn2
  ip address 10.122.4.3 255.255.255.0
!
interface GigabitEthernet1/5
  no ip address
  shutdown
!!
interface GigabitEthernet5/2
  description 'Connected to CAT-3550-101 FA0/3 ip address 172.20.212.14 255.255.255.0
media-type rj45 !
interface GigabitEthernet6/1
  no ip address
  shutdown
!
interface GigabitEthernet6/2
  description 'Connected to CAT-3550-101 FA 0/4'

```

```

no ip address
media-type rj45
!
interface Vlan1
no ip address
shutdown
!
interface Vlan23
no ip address
logging event link-status
logging event nfas-status
!
interface Vlan77
vrf forwarding vpn2
ip address 77.101.1.1 255.255.255.0
!
interface Vlan88
ip address 88.101.1.1 255.255.255.0
ip router isis
logging event link-status
logging event nfas-status
!
interface Vlan99
vrf forwarding vpn1
ip address 99.101.1.1 255.255.255.0
!
router isis
net 50.0101.0001.0101.0001.00
!
ip classless
ip route 171.0.0.0 255.0.0.0 172.20.212.1 ip route 172.0.0.0 255.0.0.0 172.20.212.1 !
!
no ip http server
no ip http secure-server
!
access-list 1 deny 200.200.200.149
access-list 1 permit any
!
!
!
control-plane
!
!
line con 0
exec-timeout 0 0
line vty 0 4
exec-timeout 0 0
password cisco
login
transport input lat pad mop udptn telnet rlogin ssh nasi acercon !
scheduler runtime netinput 300
!
end

```

7600-101-UUT1#

ACE Configuration
=====

ACE-101-UUT1-2/Admin# **show run**
Generating configuration....

```

login timeout 0
hostname ACE-101-UUT1-2
boot system image:c76-sbck9-mzg.devtest_26NOV07.bin

clock timezone standard BST

timeout xlate 2147483

interface vlan 88
 ip address 88.101.1.3 255.255.255.0
 alias 88.101.1.100 255.255.255.0
 peer ip address 88.101.1.2 255.255.255.0
 no shutdown

ft interface vlan 23
 ip address 23.23.23.11 255.255.255.0
 peer ip address 23.23.23.10 255.255.255.0
 no shutdown

ft peer 1
 heartbeat interval 300
 heartbeat count 10
 ft-interface vlan 23
 query-interface vlan 88
ft group 1
 peer 1
 priority 125
 peer priority 225
 associate-context Admin
 inservice

ip route 100.0.0.0 255.0.0.0 88.101.1.1
ip route 10.0.0.0 255.0.0.0 88.101.1.1
ip route 200.200.200.0 255.255.255.0 88.101.1.1

context vpn1
 allocate-interface vlan 99
context vpn2
 allocate-interface vlan 77
ft group 2
 peer 1
 priority 60
 peer priority 70
 associate-context vpn1
 inservice
ft group 3
 peer 1
 priority 60
 peer priority 70
 associate-context vpn2
 inservice
username admin password 5 $1$faXJEFBj$TJR1Nx7sLPTi5BZ97v08c/ role Admin domain
default-domain username www password 5 $1$UZIIwUk7$QMVYN1JASaycabrHkhGcS/ role Admin
domain de fault-domain

sbc SBC-CONFIG-SAMPLE
 sbe
 sbe
 media-gateway ipv4 200.200.207.101

```

```

codecs m=audio 1234 RTP/AVP 2 8 0 18,a=rtpmap:2 G726-32/8000,a=rtpmap:8
PCMA/8000,a=rtpmap:0 PCMU/8000,a=rtpmap:18 G729/8000
transcoder

control address h248
index 0
  ipv4 88.101.1.100
  port 2944
  transport udp

sip method-profile default
  pass-body

adjacency sip SIP-GW-1A
  nat force-off
  preferred-transport udp
  redirect-mode pass-through
  authentication nonce timeout 300
  signaling-address ipv4 88.101.1.100
  signaling-port 5060
  remote-address ipv4 10.122.1.2 255.255.255.255
  signaling-peer 10.122.1.2
  signaling-peer-port 5060
  dbe-location-id 4294967295
  account SIP-CUSTOMER-1
  reg-min-expiry 3000
  attach

adjacency sip SIP-GW-1B
  nat force-off
  preferred-transport udp
  redirect-mode pass-through
  authentication nonce timeout 300
  signaling-address ipv4 88.101.1.100
  signaling-port 5060
  remote-address ipv4 10.122.2.2 255.255.255.255
  signaling-peer 10.122.2.2
  signaling-peer-port 5060
  dbe-location-id 4294967295
  account SIP-CUSTOMER-2
  reg-min-expiry 3000
  attach

sip inherit profile preset-standard-non-ims

retry-limit 3

call-policy-set 1
  first-call-routing-table ROUTE-ON-DEST-NUM
  rtg-dst-address-table ROUTE-ON-DEST-NUM
  entry 1
    action complete
    dst-adjacency SIP-GW-1B
    match-address 6661
    prefix
  entry 2
    action complete
    dst-adjacency SIP-GW-1A
    match-address 7771
    prefix
  complete

active-call-policy-set 1

```

```
sip max-connections 2
sip timer
  tcp-idle-timeout 120000
  tls-idle-timeout 3600000
  udp-response-linger-period 32000
  udp-first-retransmit-interval 500
  udp-max-retransmit-interval 4000
  invite-timeout 180

h323
  ras timeout arq 5000
  ras retry arq 2
  ras timeout brq 3000
  ras retry brq 2
  ras timeout drq 3000
  ras retry drq 2
  ras timeout grq 5000
  ras retry grq 2
  ras timeout rrq 3000
  ras retry rrq 2
  ras rrq ttl 60
  ras timeout urq 3000
  ras retry urq 1
  h225 timeout proceeding 10000
  h225 timeout establishment 180000
  h225 timeout setup 4000
  ras rrq keepalive 45000

h323
  adjacency timeout 30000

blacklist
  global

redirect-limit 2
deact-mode normal
dbe
  media-address ipv4 77.101.1.100 vrf vpn2
  media-address ipv4 88.101.1.100
  media-address ipv4 99.101.1.100 vrf vpn1
  media-timeout 90
  deact-mode normal
  activate
```