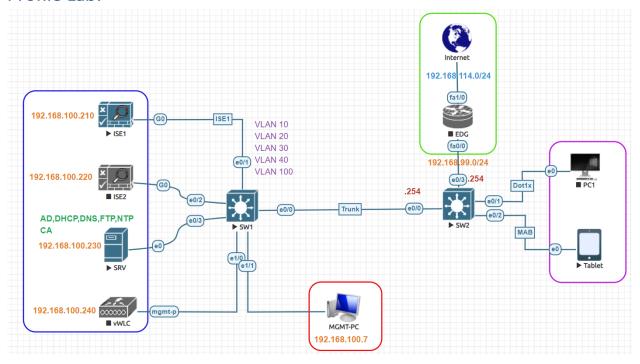
Profile Lab:

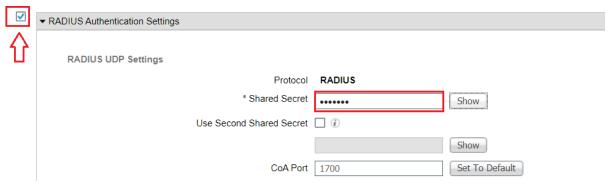


Cisco ISE Primary IP Address	192.168.100.210
Cisco ISE Secondary IP Address	192.168.100.220
AD, DNS and CA Server IP Address	192.168.100.230
Domain Name:	test.local
Test User/Group	E1/Employee
Test VLAN	VLAN 20
VLAN Subnet	192.168.20.0/24
VLAN 20 Gateway	192.168.20.1
Authenticator Switch	SW2
Authentication Switch MGMT IP	192.168.100.254
SW2 Dot1x Interface	Ethernet 0/1
SW2 MAB Interface	Ethernet 0/2
Profile Device	PC1
Profile Device	Tablet

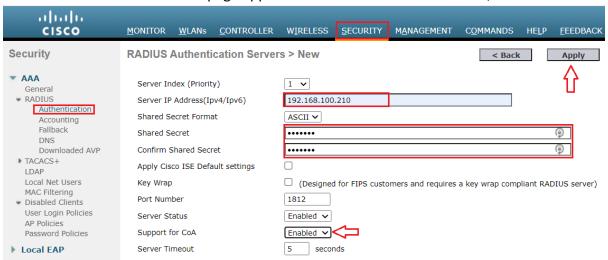
Dot1X Configuration
SW2(config)#aaa new-model
SW2(config)#dot1x system-auth-control
SW2(config)#radius server ISE1
SW2(config-radius-server)# address ipv4 192.168.100.210 auth-port 1812 acct-port 1813
SW2(config-radius-server)#key Test123
SW2(config-radius-server)#radius server ISE2
SW2(config-radius-server)# address ipv4 192.168.100.220 auth-port 1812 acct-port 1813
SW2(config-radius-server)#key Test123
SW2(config-radius-server)#radius-server attribute 6 on-for-login-auth
SW2(config)#radius-server attribute 8 include-in-access-req
SW2(config)#radius-server attribute 25 access-request include
SW2(config)#radius-server vsa send accounting
SW2(config)#radius-server vsa send authentication
SW2(config)#radius-server dead-criteria time 30 tries 3
SW2(config)#radius-server timeout 2
SW2(config)#aaa group server radius ISE-GROUP
SW2(config-sg-radius)#server name ISE1
SW2(config-sg-radius)#server name ISE2
SW2(config-sg-radius)#ip radius source-interface Vlan100
SW2(config-sg-radius)#aaa authentication dot1x default group ISE-GROUP
SW2(config)#aaa authorization network default group ISE-GROUP
SW2(config)#aaa accounting update periodic 5
SW2(config)#aaa accounting dot1x default start-stop group ISE-GROUP
SW2(config)#aaa server radius dynamic-author
SW2(config-locsvr-da-radius)#client 192.168.100.210 server-key Test123
SW2(config-locsvr-da-radius)#client 192.168.100.220 server-key Test123
SW2(config-locsvr-da-radius)#snmp-server community Test123 RO
SW2(config)#interface Ethernet0/1
SW2(config-if)#description win10 node
SW2(config-if)#switchport access vlan 20
SW2(config-if)#switchport mode access
SW2(config-if)#authentication host-mode multi-auth
SW2(config-if)#authentication port-control auto
SW2(config-if)#mab
SW2(config-if)#dot1x pae authenticator
SW2(config-if)#dot1x timeout tx-period 10
SW2(config-if)#spanning-tree portfast edge
SW2(config-if)#authentication event fail action next-method
SW2(config-if)#authentication order dot1x mab

RADIUS Probe:

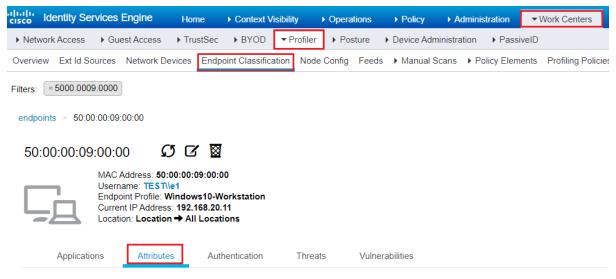
For RADIUS Probe, RADIUS Authentication Settings has to be enables Navigate to Administration > Network Resources > Network Devices to add the New Device.



From WLC GUI, click Security. From the menu on the left, click RADIUS > Authentication. The RADIUS Authentication servers page appears. To add a new RADIUS Server, click New.



Looking at one of profiled hosts Work Centers>Profiler> Endpoint Classification> Endpoints, see the attributes that were collected:



EndPointSource RADIUS Probe

EndPointVersion 75

Extended Key Usage - Name 130, 129

Extended Key Usage - OID 1.3.6.1.5.5.7.3.2, 1.3.6.1.5.5.7.3.1

FailureReason -

 Framed-IP-Address
 192 168 20 12

 NADAddress
 192 168 100 254

 NAS-IP-Address
 192 168 100 254

 NAS-Port
 50001

 NAS-Port-Id
 Ethernet0/1

 NAS-Port-Type
 Ethernet

Network Device Profile Cisco

Or Navigate to Context Visibility > Endpoints choose the endpoint to see the attributes.

Endpoints > 00:00:00:00:00

00:00:00:00:00:00

MAC Address: 00:00:00:00:00:00

Username: Endpoint Profile: Xerox-Device Current IP Address: Location:

Applications Attributes Authentication Threats Vulnerabilities

Endpoint Identity Groups:Unknown

General Attributes

Name

EndPointProfilerServer ise1.test.local

EndPointSource RADIUS Probe

Framed-IP-Address 192.168.100.13

IPSEC IPSEC Device#No

 IdentityGroup
 Workstation

 IdentityPolicyMatchedRule
 Hotspot-Auth

 IdentitySelectionMatchedRule
 Hotspot-Auth

InactiveDays 2

IsThirdPartyDeviceFlow false

Location Location#All Locations

MACAddress 14:85:7F:F7:03:23

MatchedPolicy Microsoft-Workstation

MessageCode 3000

NAS-IP-Address 192.168.100.240