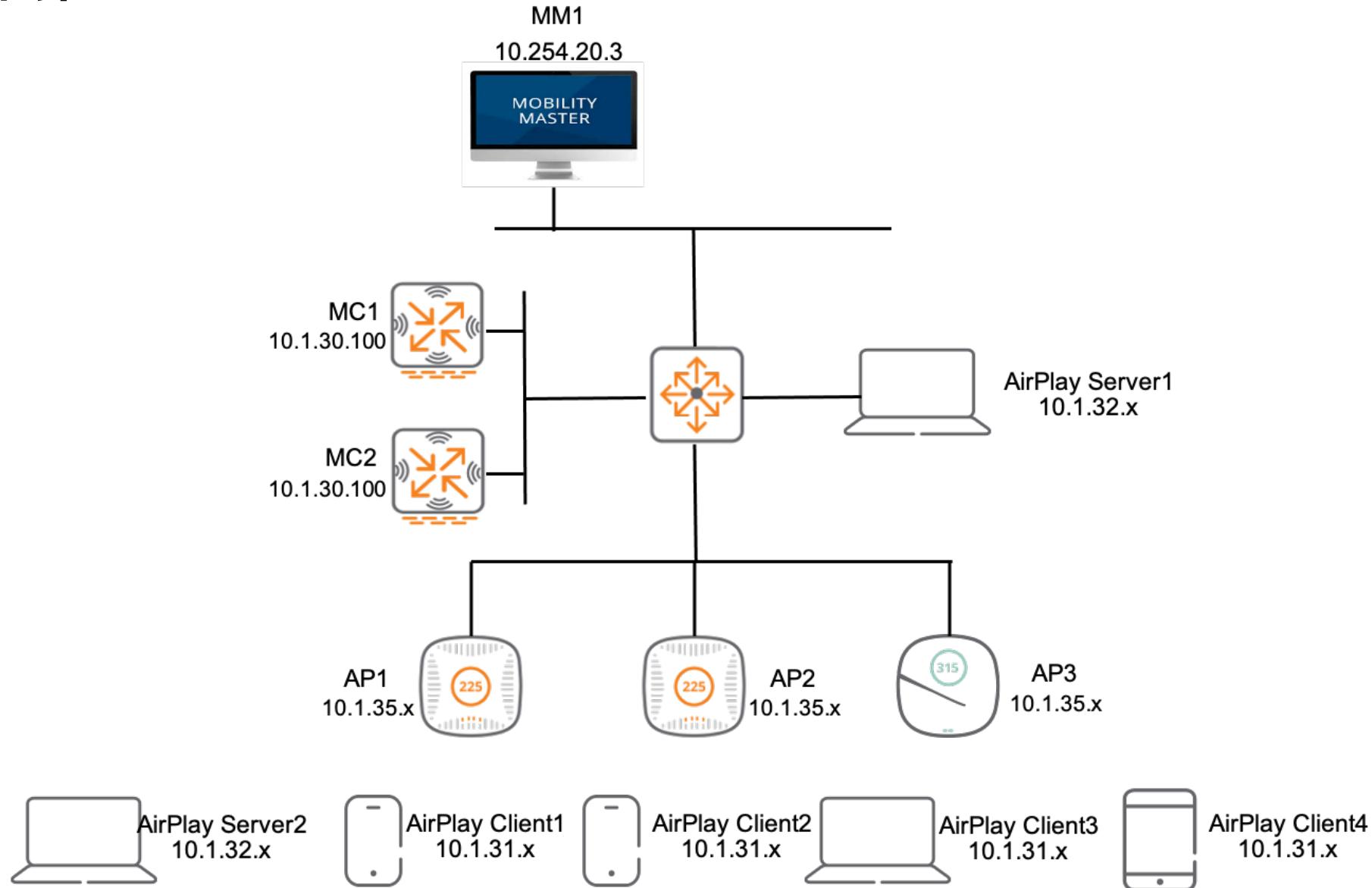


基于location的airgroup

CCE
2021-11-11

测试拓扑

测试拓扑



Centralized mode AirGroup配置

配置步骤

■ 开启openflow

- mm开启openflow
- md开启openflow
- 确认vap、role是否开启了openflow

■ 配置airgroup profile

■ 开启airgroup centralized mode

mm开启openflow

```
(MM1) [mm] (config) #openflow-controller  
(MM1) [mm] (Openflow-controller) #openflow-controller-enable
```

```
(MM1) [mynode] (config) #show openflow-controller      ->注意是检查mynode下的openflow配置
```

Openflow-controller

Parameter	Value
ofc state	Enabled
ofc host-ageout-time	3600 sec
ofc mode	passive
ofc certificate-file	none
ofc key-file	none
ofc ca-certificate-file	none
ofc tls	Disabled
ofc port	6633
ofc topology-discovery	Disabled
ofc auxiliary-channel-port	6633

md开启openflow

```
(MM1) [lab] (config) #openflow-profile          ->注意这里的lab是控制器集群所在的node  
(MM1) [lab] (Openflow-profile) #openflow-enable
```

```
(MC1) #show openflow-profile      ->注意是检查控制器上的openflow配置
```

```
Openflow-profile "default"
```

Parameter	Value
controller-ip	masterip:6633
State	Enabled
Openflow mode	passive
Openflow version	v1.3
Auxiliary State	Disabled
Auxiliary Channel Port	6633
VLAN ID or range(s) of VLAN IDs	1-4094
custom-cert-file	none
custom-key-file	none
ca-certificate-file	none
openflow tls	Disabled
custom cert	Disabled

确认vap、role是否开启了openflow

注意是在控制器上检查airgroup server、airgroup users用到的所有vap和role

```
(MC1) #show wlan virtual-ap airgroup-test1 | include Openflow  
Openflow Enable           Enabled
```

```
(MC1) #show rights authenticated | include Openflow  
Openflow: Enabled
```

配置airgroup profile

The screenshot shows the Aruba Mobility Master MM1 interface. The left sidebar includes links for Dashboard, Configuration (WLANS, Roles & Policies, Access Points, AP Groups, Authentication, Services, Interfaces, Controllers, System), Tasks, Redundancy, and Maintenance. The main content area has tabs for General, Admin, AirWave, CPSec, Certificates, SNMP, Logging, and Profiles (which is highlighted with a red box). A sub-section titled "All Profiles" lists various profiles: AP, AirGroup, AirGroup ClearPass, AirGroup Domain, AirGroup IPv6, AirGroup Profile (highlighted with an orange box), airgroup_profile, default, AirGroup Service, Network, Cluster, Controller Profile, EST Profile, and IDS. To the right, a new profile creation section titled "AirGroup Profile Profile: New Profile" is shown, with a "AirGroup Profile Profile:" field containing a blue plus sign button.

Profile Type	Description
AP	Aruba Access Point configuration
AirGroup	Aruba AirGroup configuration
AirGroup ClearPass	Aruba AirGroup ClearPass configuration
AirGroup Domain	Aruba AirGroup Domain configuration
AirGroup IPv6	Aruba AirGroup IPv6 configuration
AirGroup Profile	Aruba AirGroup Profile configuration (selected)
airgroup_profile	Aruba airgroup_profile configuration
default	Aruba default configuration
AirGroup Service	Aruba AirGroup Service configuration
Network	Aruba Network configuration
Cluster	Aruba Cluster configuration
Controller Profile	Aruba Controller Profile configuration
EST Profile	Aruba EST Profile configuration
IDS	Aruba IDS configuration

配置airgroup profile

AirGroup Profile Profile: New Profile

Profile name: centralized_airgroup

AirGroup Disallow vlan:

VLAN_ID_OR_NAME	AIRGROUP_SERVI...	USERS_SERVERS
+ +		

AirGroup Disallow Role:

ROLE_NAME	AIRGROUP_SERVI...	USERS_SERVERS
+ +		

AirGroup Autoassociate:

AIRGROUP_SERVI...	AUTO_ASSOCIATE
+ +	

AirGroup server enforce registration:

Cancel Submit

配置airgroup profile

General Admin AirWave CPSec Certificates SNMP Logging **Profiles** More

All Profiles	
⊕	AP
⊖	AirGroup
⊕	AirGroup ClearPass
⊕	AirGroup Domain
⊕	AirGroup IPv6
⊖	AirGroup Profile
⊕	airgroup_profile
⊖	centralized_airgroup
	AirGroup ClearPass
	AirGroup IPv6
	AirGroup Service
	AirGroup active domain
	Network
⊕	default

AirGroup Service Profile	
AIRGROUP SERVICE PRO...	grid icon
AirGroup Service Profile:	+

配置airgroup profile

The screenshot shows a web-based configuration interface for an Aruba access point. The title bar reads "AirGroup Service Profile". Below it, a table has one row visible, with the first column labeled "AIRGROUP SERVICE PRO..." and the second column containing the text "default-airplay". A red box highlights the "default-airplay" entry. To the left of the table, the text "AirGroup Service Profile:" is displayed, followed by a blue plus sign (+) indicating the ability to add new profiles.

仅添加需要用到的services，这里仅测试AirPlay，所以只添加default-airplay service

开启AirGroup Centralized mode

The screenshot shows the Aruba Mobility Master (MM1) interface. The top navigation bar displays 'aruba MOBILITY MASTER MM1' and various system status metrics. The left sidebar shows a tree view of the network structure, with 'lab (2)' highlighted by a red box. The main content area has tabs for Clusters, AirGroup (selected and highlighted by a red box), VPN, Firewall, IP Mobility, External Services, DHCP, and WAN. Under the AirGroup tab, the 'AirGroup service:' toggle is turned on. The 'Mode:' section shows 'Centralized' selected (radio button highlighted). The 'AirGroup profile:' dropdown is set to 'centralized_airgroup'. Below these settings are sections for 'Service-Based Policy', 'Services', 'Disallowed services by VLAN', and 'Disallowed services by role', each containing a table with columns like SERVICE, AUTO ASSOCIATE, TO, USAGE, VLAN, and ROLE. At the bottom right, there are 'Cancel' and 'Submit' buttons, with 'Submit' also highlighted by a red box.

Clusters **AirGroup** VPN Firewall IP Mobility External Services DHCP WAN

AirGroup service:

Mode: Centralized Distributed

AirGroup profile: **centralized_airgroup**

Forced registration: Disabled

Service-Based Policy

SERVICE	AUTO ASSOCIATE	TO
+		

SERVICE	USAGE	VLAN
+		

SERVICE	USAGE	ROLE
+		

Disallow services by VLAN:

Disallow services by role:

Cancel **Submit**

Airgroup Location Based Sharing介绍

Airgroup Location Based Sharing介绍

Location Attribute	Tag=Value Format	Description
AP-Name based	ap-name=<name>	When the location is set to ap-name, all AirGroup users connected to this AP and to APs which are in the same RF neighborhood can access the shared device.
AP-Group based	ap-group=<group>	When the location attribute is set to ap-group, all AirGroup users associated to APs in the specified AP group can access the shared device.
AP-FQLN based	fqln=<fqln>	When the location attribute is set to ap-FQLN, all AirGroup users connected to APs on the same floor, and to the APs on a floor above or below the configured APs can access the shared device.

基于location进行airgroup server device share时：

1. 如果配置为基于ap-name，那么连接到指定的ap-name以及这些ap的相邻ap-name的airgroup user都可以发现该airgroup server。
2. 如果配置为基于ap-group，那么只有连接到指定ap-group下的ap的airgroup user才可以发现airgroup server。
3. 如果配置为基于AP FQLN，那么连接到与指定AP FQLN位于相同floor number以及相邻floor（即楼上和楼下）的AP的airgroup client都可以发现该airgroup server。

基于AP-Group的airgroup server share

- 配置

GUI

The screenshot shows the Aruba Mobility Master MM1 interface. The top navigation bar includes the Aruba logo, the network name 'MOBILITY MASTER MM1', and status indicators for Controllers (2), Access Points (3), Clients (5), and Alerts (0).

The left sidebar shows the navigation path: Managed Network > lab > lab (2). The 'lab (2)' folder is highlighted with a red box.

The main configuration area has several tabs: Clusters, AirGroup (which is selected and highlighted with a red box), VPN, Firewall, IP Mobility, External Services, DHCP, and WAN. Under the AirGroup tab, the 'AirGroup service' is enabled. The 'Mode' is set to 'Centralized' (radio button selected). The 'AirGroup profile' dropdown is set to 'centralized_airgroup'. The 'Forced registration' is disabled. Below these settings, there is a list of policy types: Service-Based Policy, ClearPass Policy Manager, IPv6, and Domains. A section titled 'Server-Based Policy' is expanded, showing a table of discovered devices:

MAC ADDR...	HOST NAME	TYPE
00:0e:c6:c4:...	newdeMac...	N/A

Below the table, the text 'Devices:' is followed by a red box containing a plus sign (+) to add new devices.

A large red box highlights the 'Server-Based Policy' section and the 'Devices' table. A red annotation at the bottom right of the table area says: '自动发现的airgroup server会显示在这里' (Automatically discovered AirGroup servers will be displayed here).

GUI

Add New Device

MAC address:

a4:4e:31:ce:61:a8

Cancel

Submit

Server-Based Policy

MAC ADDR...	HOST NAME	TYPE	
a4:4e:31:ce:61:a8	--	N/A	
00:0e:c6:c4:88:cd	newdeMac...	N/A	

Devices:



a4:4e:31:ce:61:a8

Auto associate:	<input type="text"/> None
AP name:	<input type="text"/>
Neighborhood hop(s):	<input type="text"/> None
AP group:	<input type="text"/> group1
AP FQDN:	<input type="text"/>
User names:	<input type="text"/>
User roles:	<input type="text"/>
User groups:	<input type="text"/>

Server-Based Policy

MAC ADDR...	HOST NAME	TYPE	
a4:4e:31:ce:61:a8	--	N/A	
00:0e:c6:c4:88:cd	newdeMac...	N/A	

Devices:



00:0e:c6:c4:88:cd

Auto associate:	<input type="text"/> None
AP name:	<input type="text"/>
Neighborhood hop(s):	<input type="text"/> None
AP group:	<input type="text"/> group1
AP FQDN:	<input type="text"/>
User names:	<input type="text"/>
User roles:	<input type="text"/>
User groups:	<input type="text"/>

Cancel

Submit

Cancel

Submit

CLI

```
(MM1) [lab] #airgroup policy ap-group device-mac a4:4e:31:ce:61:a8 group1  
(MM1) [lab] #airgroup policy ap-group device-mac 00:0e:c6:c4:88:cd group1  
/MM1\ [lab] #
```

```
(MM1) [lab] #airgroup policy ap-group device-mac a4:4e:31:ce:61:a8  
add          Add shared AP-group(s) to the current list  
remove        Remove shared AP-group(s) from the current list  
STRING        comma separated Shared AP-group(s). max characters:250  
(MM1) [lab] #airgroup policy ap-group device-mac a4:4e:31:ce:61:a8 group1,group2  
(MM1) [lab] #show airgroup policy-entries
```

AirGroup Device Policy Information

Device	device-owner	shared AP-name	shared AP-FQDN	shared AP-group	shared users	shared groups	shared roles	CPPM-Req	CPPM-Resp	source	Auto-Associate	Neighborhood
a4:4e:31:ce:61:a8	N/A			group1 group2						CLI		1 hop(s)

Num Policy Entries:1
(MM1) [lab] #

注意这里lab是cluster所在的node，airgroup policy是在enable模式下配置的，不会下发到lab下面的设备节点以及设备上

可以一次设置或者一次增加多个ap-group，ap-group之间用逗号间隔，但是最长支持250个字符

确认配置

```
(MM1) [lab] #show airgroup policy-entries
```

AirGroup Device Policy Information

Device	device-owner	shared AP-name	shared AP-FQLN	shared AP-group	shared users	shared groups	shared roles	CPPM-Req	CPPM-Resp	source	Auto-Associate	Neighborhood
a4:4e:31:ce:61:a8	N/A			group1						CLI		1 hop(s)
00:0e:c6:c4:88:cd	N/A			group1						CLI		1 hop(s)
Num Policy Entries:2												
(MM1) [lab] #												

Neighborhood参数只对ap-name起作用，对ap-group、 ap-fqIn不起作用

基于AP-Group的airgroup server share

- 验证

验证

(MM1) [lab] #show airgroup servers

Showing AirGroup servers under /md/lab

AirGroup Servers

MAC	IP	Type	Host Name	Service	VLAN	Wired/Wireless	Role	Group	Username	AP-Name
---	--	---	-----	-----	----	-----	----	----	-----	-----
a4:4e:31:ce:61:a8	10.1.32.253	mDNS	Wired03	default-airplay	32	wireless	authenticated			AP2
00:0e:c6:c4:88:cd	10.1.32.254	mDNS	newdeMacBook-Pro-2	default-airplay	32	N/A				
Num Servers: 2.										

(MM1) [lab] #show airgroup users

Showing AirGroup users under /md/lab

AirGroup Users

MAC	IP	Type	Host Name	VLAN	Wired/Wireless	Role	Group	Username	AP-Name
---	--	---	-----	---	-----	---	----	-----	-----
6c:70:9f:1a:f5:c1	10.1.31.252	mDNS		31	wireless	authenticated			AP2
94:e6:f7:a4:01:d7	10.1.31.251	mDNS	windows10	31	wireless	authenticated			AP1
2a:c2:d4:93:3e:df	10.1.31.250	mDNS		31	wireless	authenticated			AP2
3e:6a:43:d9:d0:20	10.1.31.254	mDNS	iPhone	31	wireless	authenticated			AP1
Num Users: 4.									
(MM1) [lab] #									

验证

(MM1) [lab] #show airgroup policy-entries

AirGroup Device Policy Information

Device	device-owner	shared AP-name	shared AP-FQDN	shared AP-group	shared users	shared groups	shared roles	CPPM-Req	CPPM-Resp	source	Auto-Associate	Neighborhood
a4:4e:31:ce:61:a8	N/A			group1						CLI		No
00:0e:c6:c4:88:cd	N/A			group1						CLI		1 hop(s)
Num Policy Entries:2												

(MM1) [lab] #show airgroup aps

Showing AirGroup info from /md/lab

AirGroup APs

IP	Name	Group	MAC	BSSID- A	BSSID- B/G	FQDN	Neighbor count- A	Neighbor count- B/G	Neighbor AP name	BAND
	AP1	group1	40:e3:d6:c3:f9:14	40:e3:d6:bf:91:50	40:e3:d6:bf:91:40	AP1.floor 1.building1.campus1	2	0	AP3	A
	AP3	group3	24:f2:7f:c3:da:38	24:f2:7f:bd:a3:90	24:f2:7f:bd:a3:80	AP3.floor 2.building1.campus1	2	0	AP1	A
	AP2	group2	04:bd:88:cd:5e:20	04:bd:88:55:e2:10	04:bd:88:55:e2:00	AP2.floor 1.building2.campus1	2	0	AP1	A

Num APs:3

(MM1) [mynode] (config) #show ap database

AP Database

Name	Group	AP Type	IP Address	Status	Flags	Switch IP	Standby IP
AP1	group1	225	10.1.35.252	Up 9h:30m:12s		10.1.30.101	10.1.30.100
AP2	group2	225	10.1.35.253	Up 9h:30m:9s		10.1.30.101	10.1.30.100
AP3	group3	315	10.1.35.254	Up 9h:30m:43s		10.1.30.100	10.1.30.101

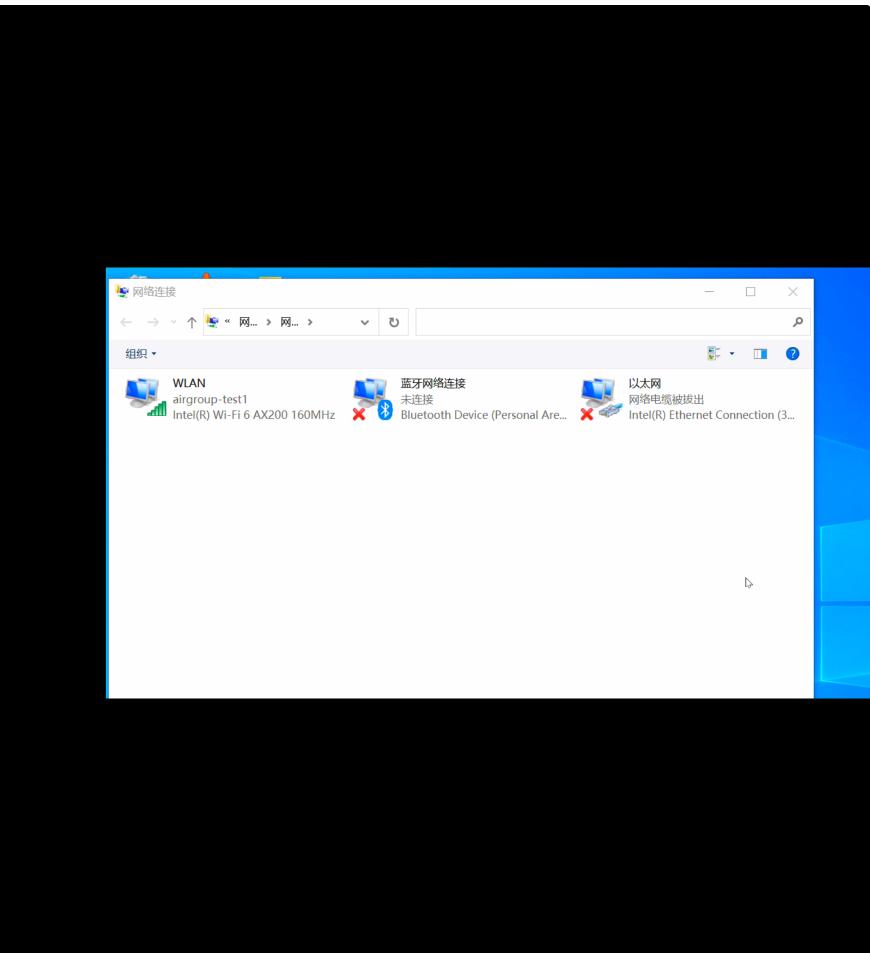
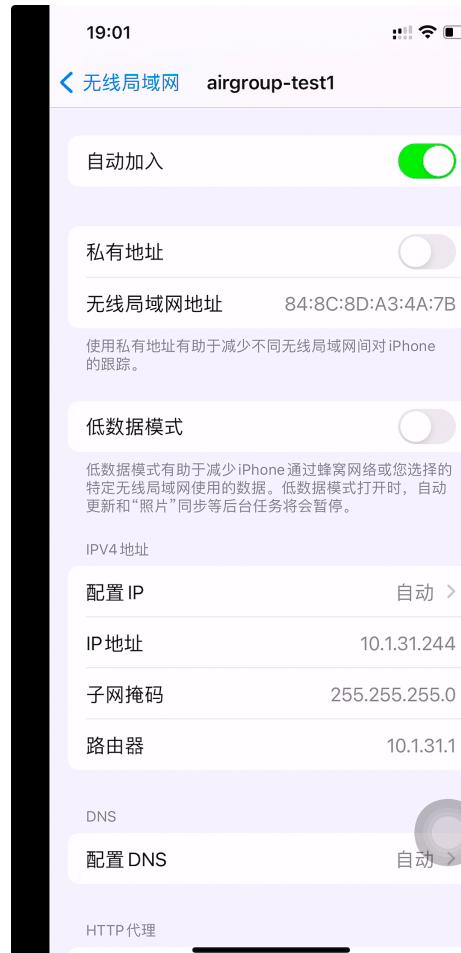
验证

(MM1) [mynode] (config) #show global-user-table list

Global Users

IP	MAC	Name	Current switch	Role	Auth	AP name	Roaming	Essid	Bssid	Phy	Profile	Type	User Type
10.1.31.245	7c:04:d0:71:b2:9c	10.1.30.100		authenticated		AP2	Wireless	airgroup-test2	04:bd:88:55:e2:10	a-VHT	airgroup-test2_aaa_prof	N/A	WIRELESS
10.1.32.253	a4:4e:31:ce:61:a8	10.1.30.100		authenticated		AP2	Wireless	airgroup	04:bd:88:55:e2:11	a-HT	airgroup_aaa_prof	N/A	WIRELESS
10.1.31.252	6c:70:9f:1a:f5:c1	10.1.30.101		authenticated		AP2	Wireless	airgroup-test2	04:bd:88:55:e2:10	a-HT	airgroup-test2_aaa_prof	iPad	WIRELESS
10.1.31.244	84:8c:8d:a3:4a:7b	10.1.30.101		authenticated		AP1	Wireless	airgroup-test1	40:e3:d6:bf:91:50	a-VHT	airgroup-test1_aaa_prof	N/A	WIRELESS
10.1.31.251	94:e6:f7:a4:01:d7	10.1.30.101		authenticated		AP1	Wireless	airgroup-test1	40:e3:d6:bf:91:50	a-VHT	airgroup-test1_aaa_prof	Win 8	WIRELESS

Total entries = 5



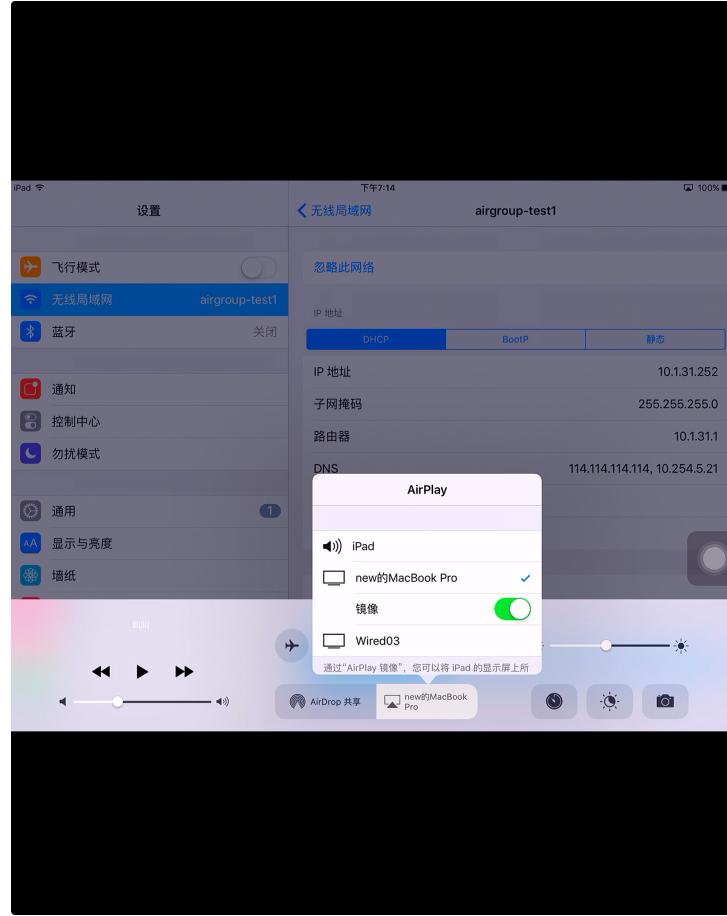
验证

(MM1) [mynode] (config) #show global-user-table list

Global Users

IP	MAC	Name	Current switch	Role	Auth	AP name	Roaming	Essid	Bssid	Phy	Profile	Type	User Type
10.1.32.253	a4:4e:31:ce:61:a8		10.1.30.100	authenticated		AP2	Wireless	airgroup	04:bd:88:55:e2:11	a-HT	airgroup_aaa_prof	N/A	WIRELESS
10.1.31.244	84:8c:8d:a3:4a:7b		10.1.30.101	authenticated		AP2	Wireless	airgroup-test2	04:bd:88:55:e2:10	a-VHT	airgroup-test2_aaa_prof	N/A	WIRELESS
10.1.31.245	7c:04:d0:71:b2:9c		10.1.30.100	authenticated		AP1	Wireless	airgroup-test1	40:e3:d6:bf:91:50	a-VHT	airgroup-test1_aaa_prof	N/A	WIRELESS
10.1.31.252	6c:70:9f:1a:f5:c1		10.1.30.101	authenticated		AP1	Wireless	airgroup-test1	40:e3:d6:bf:91:50	a-HT	airgroup-test1_aaa_prof	iPad	WIRELESS
10.1.31.251	94:e6:f7:a4:01:d7		10.1.30.101	authenticated		AP2	Wireless	airgroup-test2	04:bd:88:55:e2:10	a-VHT	airgroup-test2_aaa_prof	Win 8	WIRELESS

Total entries = 5



基于AP-Name的airgroup server share

- 配置

GUI

The screenshot shows the Aruba Mobility Master MM1 interface. The top navigation bar includes 'MOBILITY MASTER MM1' and status indicators for Controllers (2), Access Points (3), Clients (5), and Alerts (0). The left sidebar shows a tree view of the network structure: 'Managed Network > lab > Mobility Master MM1 > lab (2) > MC1, MC2'. The main content area is titled 'Configuration' and has tabs for 'Clusters', 'AirGroup' (which is selected and highlighted with a red box), 'VPN', 'Firewall', 'IP Mobility', 'External Services', 'DHCP', and 'WAN'. Under the 'AirGroup' tab, the 'AirGroup service' is enabled. The 'Mode' is set to 'Centralized' (radio button selected). The 'AirGroup profile' dropdown is set to 'centralized_airgroup'. 'Forced registration' is disabled. Below these settings is a list of policy options: 'Service-Based Policy', 'ClearPass Policy Manager', 'IPv6', and 'Domains'. A section titled 'Server-Based Policy' is expanded, showing a table of devices. The first device listed is 'a4:4e:31:ce:61:a8' (Host Name: 'Wired03', Type: 'wireless'). A red box highlights this row. Another device, '00:0e:c6:c4:88:cd' (Host Name: 'newdeMacBook-Pro...', Type: 'N/A'), is also listed. Below the table is a '+' button. A detailed configuration dialog is open for the device 'a4:4e:31:ce:61:a8'. It includes fields for 'Auto associate' (set to 'None'), 'AP name' (set to 'AP3'), 'Neighborhood hop(s)' (set to 'None'), 'AP group', 'AP FQDN', and 'User names'.

Neighborhood hop:

None: airgroup server只共享给此AP，此AP的邻居AP下的user不能发现此server
1/2/3 : airgroup server共享给此AP，以及此AP的1/2/3跳邻居AP下的user

CLI

```
(MM1) [lab] #airgroup policy ap-name device-mac 00:0e:c6:c4:88:cd AP2,AP3
(MM1) [lab] #airgroup policy ap-name device-mac a4:4e:31:ce:61:a8 AP2,AP3
(MM1) [lab] #no airgroup policy ap-neighborhood device-mac 00:0e:c6:c4:88:cd
(MM1) [lab] #no airgroup policy ap-neighborhood device-mac a4:4e:31:ce:61:a8

(MM1) [lab] #airgroup policy ap-name device-mac 00:0e:c6:c4:88:cd
add           Add shared AP-name(s) to the current list
remove        Remove shared AP-name(s) from the current list
STRING        comma separated Shared AP-name(s). max characters:250

(MM1) [lab] #airgroup policy ap-name device-mac 00:0e:c6:c4:88:cd add
STRING        comma separated Shared AP-name(s). max characters:250
```

注意这里lab是cluster所在的node，airgroup policy是在enable模式下配置的，不会下发到lab下面的设备节点以及设备上

可以一次设置或者一次增加多个ap-name，但是最长支持250个字符

通过CLI添加的airgroup policy默认neighborhood为1 hop，需要通过no airgroup policy ap-neighborhood device-mac xx:xx:xx:xx:xx来删除neighborhood，即neighborhood为no

确认配置

```
(MM1) [lab] #show airgroup policy-entries
```

AirGroup Device Policy Information

Device	device-owner	shared AP-name	shared AP-FQDN	shared AP-group	shared users	shared groups	shared roles	CPPM-Req	CPPM-Resp	source	Auto-Associate	Neighborhood
a4:4e:31:ce:61:a8	N/A	AP2 AP3								CLI		No
00:0e:c6:c4:88:cd	N/A	AP2 AP3								CLI		No

Num Policy Entries:2

基于AP-Name的airgroup server share

- 验证

验证

(MM1) [lab] #show airgroup servers

Showing AirGroup servers under /md/lab

AirGroup Servers

MAC	IP	Type	Host Name	Service	VLAN	Wired/Wireless	Role	Group	Username	AP-Name
a4:4e:31:ce:61:a8	10.1.32.253	mDNS	Wired03	default-airplay	32	wireless	authenticated			AP2
00:0e:c6:c4:88:cd	10.1.32.254	mDNS	newdeMacBook-Pro-2	default-airplay	32	N/A				
Num Servers: 2.										

(MM1) [lab] #show airgroup users

Showing AirGroup users under /md/lab

AirGroup Users

MAC	IP	Type	Host Name	VLAN	Wired/Wireless	Role	Group	Username	AP-Name
7c:04:d0:71:b2:9c	10.1.31.245	mDNS	majinghaodeiPhone	31	wireless	authenticated			AP3
6c:70:9f:1a:f5:c1	10.1.31.252	mDNS	iPad-mini	31	wireless	authenticated			AP1
94:e6:f7:a4:01:d7	10.1.31.251	mDNS	windows10	31	wireless	authenticated			AP2
84:8c:8d:a3:4a:7b	10.1.31.244	mDNS		31	wireless	authenticated			AP2

Num Users: 4.

验证

(MM1) [lab] #show airgroup policy-entries

AirGroup Device Policy Information

Device	device-owner	shared AP-name	shared AP-FQDN	shared AP-group	shared users	shared groups	shared roles	CPPM-Req	CPPM-Resp	source	Auto-Associate	Neighborhood
a4:4e:31:ce:61:a8	N/A	AP2								CLI		No
		AP3										
00:0e:c6:c4:88:cd	N/A	AP2								CLI		No
		AP3										

Num Policy Entries:2

(MM1) [lab] #show airgroup aps

Showing AirGroup info from /md/lab

AirGroup APs

IP	Name	Group	MAC	BSSID- A	BSSID- B/G	FQDN	Neighbor count- A	Neighbor count- B/G	Neighbor AP name	BAND
	AP1	group1	40:e3:d6:c3:f9:14	40:e3:d6:bf:91:50	40:e3:d6:bf:91:40	AP1.floor 1.building1.campus1	2	0	AP3	A
	AP3	group3	24:f2:7f:c3:da:38	24:f2:7f:bd:a3:90	24:f2:7f:bd:a3:80	AP3.floor 2.building1.campus1	2	0	AP1	A
	AP2	group2	04:bd:88:cd:5e:20	04:bd:88:55:e2:10	04:bd:88:55:e2:00	AP2.floor 1.building2.campus1	2	0	AP3	A

Num APs:3

(MM1) [mynode] (config) #show ap database

AP Database

Name	Group	AP Type	IP Address	Status	Flags	Switch IP	Standby IP
AP1	group1	225	10.1.35.252	Up 9h:30m:12s		10.1.30.101	10.1.30.100
AP2	group2	225	10.1.35.253	Up 9h:30m:9s		10.1.30.101	10.1.30.100
AP3	group3	315	10.1.35.254	Up 9h:30m:43s		10.1.30.100	10.1.30.101

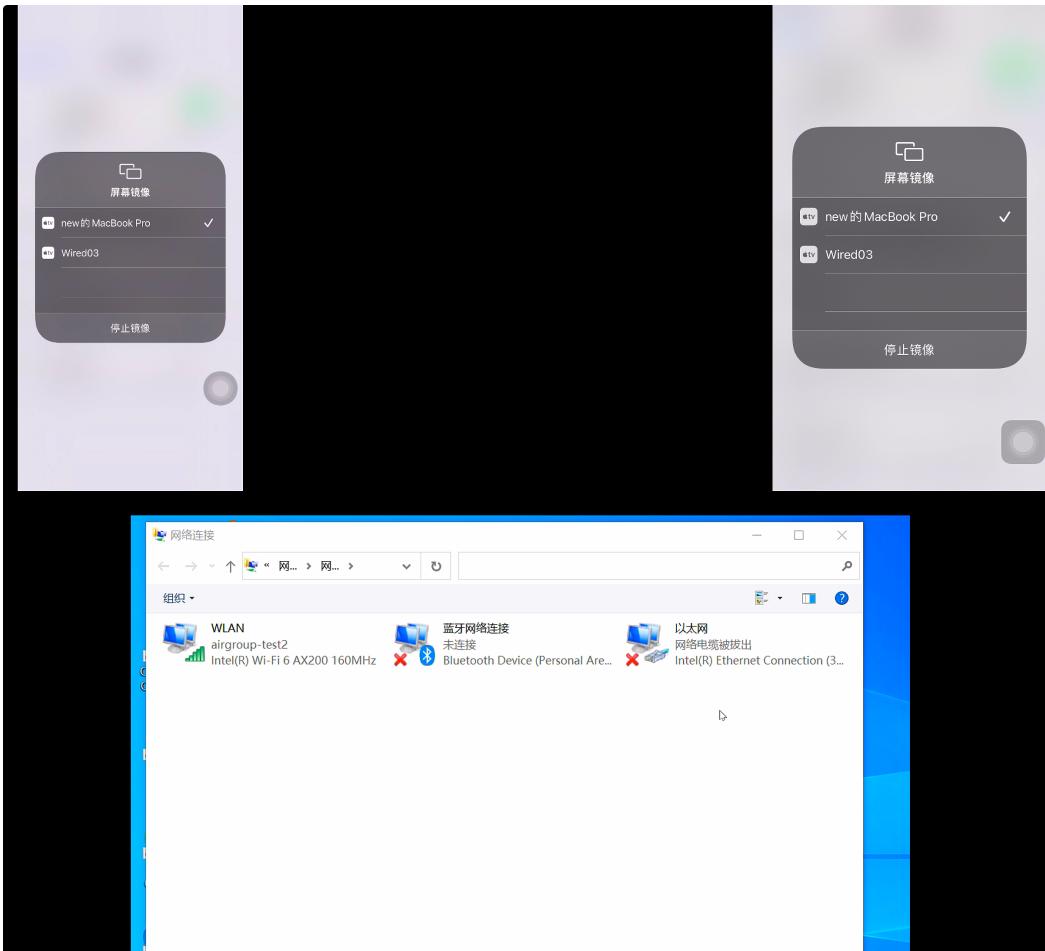
验证

(MM1) [mynode] #show global-user-table list

Global Users

IP	MAC	Name	Current switch	Role	Auth	AP name	Roaming	Essid	Bssid	Phy	Profile	Type	User Type
10.1.31.245	7c:04:d0:71:b2:9c		10.1.30.100	authenticated		AP3	Wireless	airgroup-test3	24:f2:7f:bd:a3:90	a-VHT	airgroup-test3_aaa_prof	N/A	WIRELESS
10.1.32.253	a4:4e:31:ce:61:a8		10.1.30.100	authenticated		AP1	Wireless	airgroup	40:e3:d6:bf:91:51	a-HT	airgroup_aaa_prof	N/A	WIRELESS
10.1.31.244	84:8c:8d:a3:4a:7b		10.1.30.101	authenticated		AP2	Wireless	airgroup-test2	04:bd:88:55:e2:10	a-VHT	airgroup-test2_aaa_prof	iPhone	WIRELESS
10.1.31.251	94:e6:f7:a4:01:d7		10.1.30.101	authenticated		AP2	Wireless	airgroup-test2	04:bd:88:55:e2:10	a-VHT	airgroup-test2_aaa_prof	Win 8	WIRELESS
10.1.31.252	6c:70:9f:1a:f5:c1		10.1.30.101	authenticated		AP1	Wireless	airgroup-test1	40:e3:d6:bf:91:50	a-HT	airgroup-test1_aaa_prof	iPad	WIRELESS

Total entries = 5



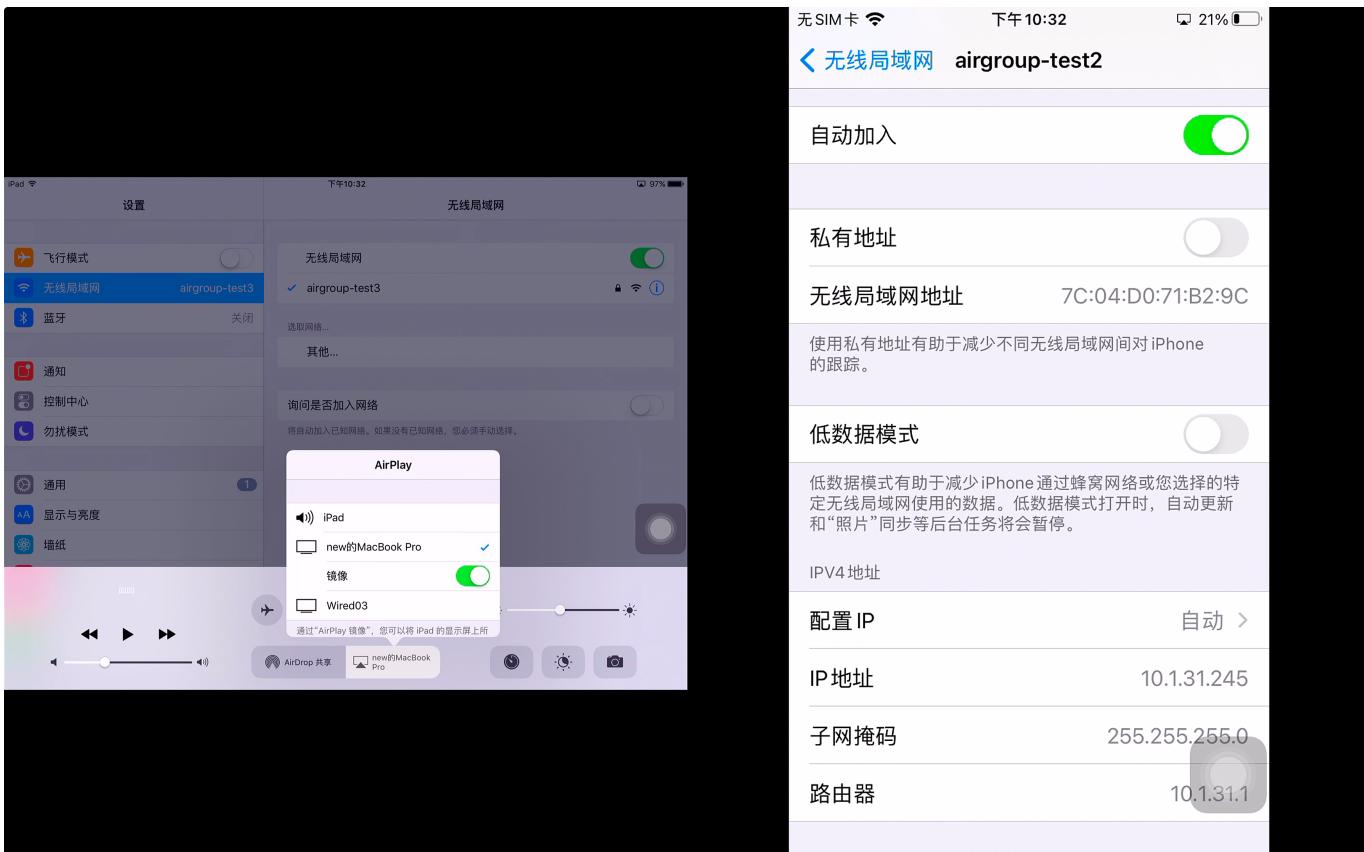
验证

(MM1) [mynode] #show global-user-table list

Global Users

IP	MAC	Name	Current switch	Role	Auth	AP name	Roaming	Essid	Bssid	Phy	Profile	Type	User Type
10.1.32.253	a4:4e:31:ce:61:a8		10.1.30.100	authenticated		AP1	Wireless	airgroup	40:e3:d6:bf:91:51	a-HT	airgroup_aaa_prof	N/A	WIRELESS
10.1.31.244	84:8c:8d:a3:4a:7b		10.1.30.101	authenticated		AP1	Wireless	airgroup-test1	40:e3:d6:bf:91:50	a-VHT	airgroup-test1_aaa_prof	iPhone	WIRELESS
10.1.31.245	7c:04:d0:71:b2:9c		10.1.30.100	authenticated		AP2	Wireless	airgroup-test2	04:bd:88:55:e2:10	a-VHT	airgroup-test2_aaa_prof	N/A	WIRELESS
10.1.31.252	6c:70:9f:1a:f5:c1		10.1.30.101	authenticated		AP3	Wireless	airgroup-test3	24:f2:7f:bd:a3:90	a-HT	airgroup-test3_aaa_prof	iPad	WIRELESS
10.1.31.251	94:e6:f7:a4:01:d7		10.1.30.101	authenticated		AP1	Wireless	airgroup-test1	40:e3:d6:bf:91:50	a-VHT	airgroup-test1_aaa_prof	Win 8	WIRELESS

Total entries = 5





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Thank you