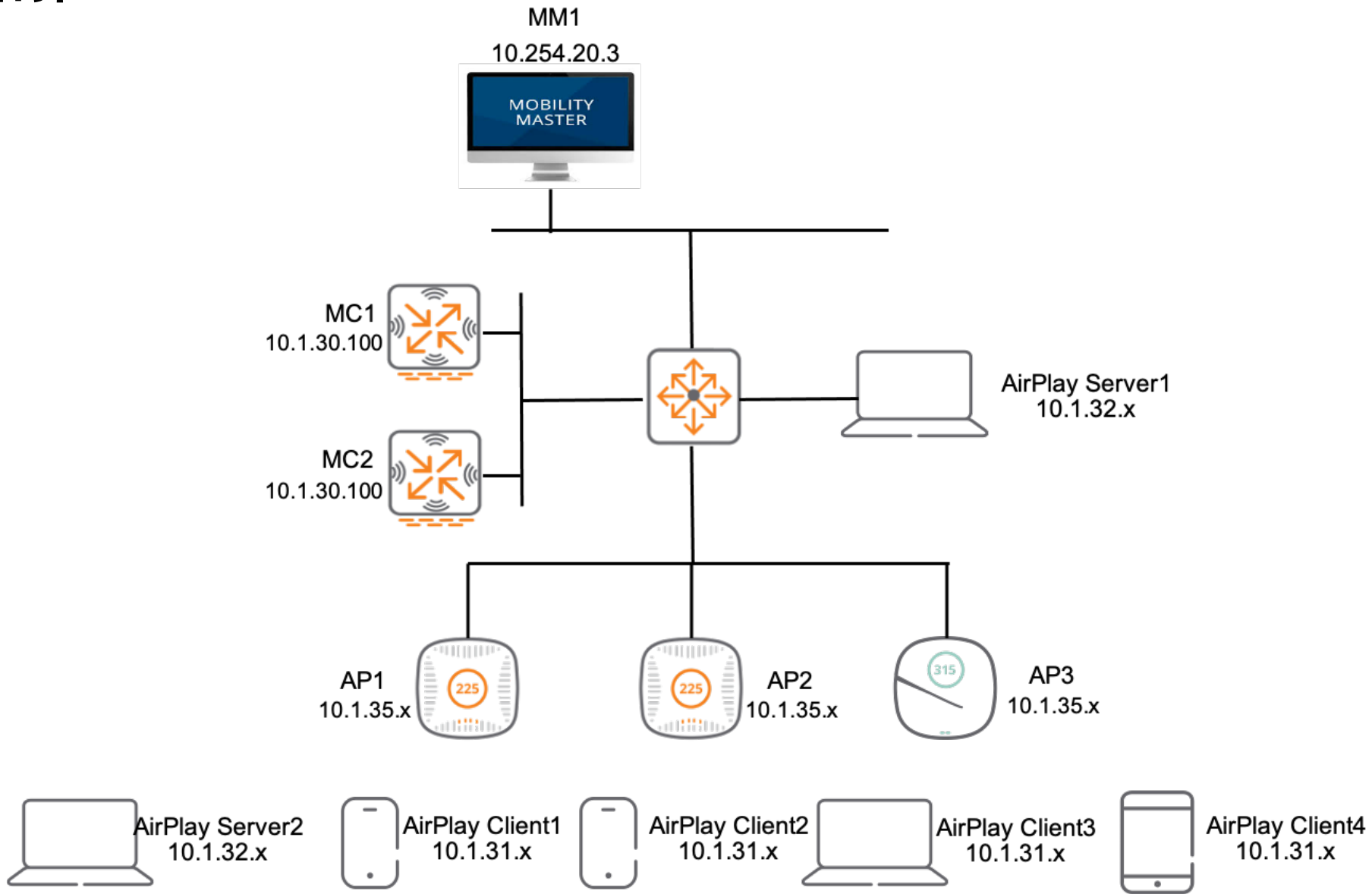


基于location的airgroup

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



MOBILITY MASTER
MM1

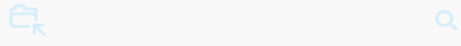
CONTROLLERS
2 0

ACCESS POINTS
2 0

CLIENTS
3 0

ALERTS
0

Managed Network > lab >



Mobility Master

MM1

Managed Network (2)

lab (2)

MC1

MC2

Dashboard

Configuration

WLANs

Roles & Policies

Access Points

AP Groups

Authentication

Services

Interfaces

Controllers

System

Tasks

Redundancy

Maintenance

General

Admin

AirWave

CPSec

Certificates

SNMP

Logging

Profiles

More

All Profiles

+ AP

- AirGroup

+ AirGroup ClearPass

+ AirGroup Domain

+ AirGroup IPv6

- AirGroup Profile

+ airgroup_profile

+ default

+ AirGroup Service

+ Network

+ Cluster

+ Controller Profile

+ EST Profile

+ IDS

AirGroup Profile Profile: New Profile

AirGroup Profile Profile: +

配置airgroup profile

AirGroup Profile Profile: New Profile

Profile name:

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:

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 Profile:



配置airgroup profile

AirGroup Service Profile

AirGroup Service Profile:

AIRGROUP SERVICE PRO...	
default-airplay	

+

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) configuration interface. The top navigation bar includes 'CONTROLLERS' (2), 'ACCESS POINTS' (2), 'CLIENTS' (3), and 'ALERTS' (0). The left sidebar shows the 'Managed Network' structure with 'lab (2)' selected. The main configuration area is for 'AirGroup' and includes the following settings:

- AirGroup service:** Enabled (toggle switch)
- Mode:** Centralized (selected radio button), Distributed (unselected radio button)
- AirGroup profile:** centralized_airgroup (dropdown menu)
- Forced registration:** Disabled

Below these settings is the 'Service-Based Policy' section, which contains three tables for configuring service policies:

- Services:** A table with columns 'SERVICE', 'AUTO ASSOCIATE', and 'TO'. It is currently empty with a '+' sign for adding entries.
- Disallowed services by VLAN:** A table with columns 'SERVICE', 'USAGE', and 'VLAN'. It is currently empty with a '+' sign for adding entries.
- Disallowed services by role:** A table with columns 'SERVICE', 'USAGE', and 'ROLE'. It is currently empty with a '+' sign for adding entries.

At the bottom right of the configuration area, there are 'Cancel' and 'Submit' buttons.

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

aruba MOBILITY MASTER MM1

CONTROLLERS 2 0 ACCESS POINTS 3 0 CLIENTS 5 0 ALERTS 0

Managed Network > lab >

Dashboard

Configuration

WLANs

Roles & Policies

Access Points

AP Groups

Authentication

Services

Interfaces

Controllers

System

Tasks

Redundancy

Maintenance

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

> ClearPass Policy Manager

> IPv6

> Domains

Server-Based Policy

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

Devices:

+

自动发现的airgroup server会显示在这里

GUI

Add New Device

MAC address:

Cancel

Submit

Server-Based Policy

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

Devices:

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

Auto associate:

AP name:

Neighborhood hop(s):

AP group:

AP FQLN:

User names:

User roles:

User groups:

Cancel

Submit

Server-Based Policy

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

Devices:

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

Auto associate:

AP name:

Neighborhood hop(s):

AP group:

AP FQLN:

User names:

User roles:

User groups:

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 charecters: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-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 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-fqln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-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		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	FQLN	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
									AP2	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	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
									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

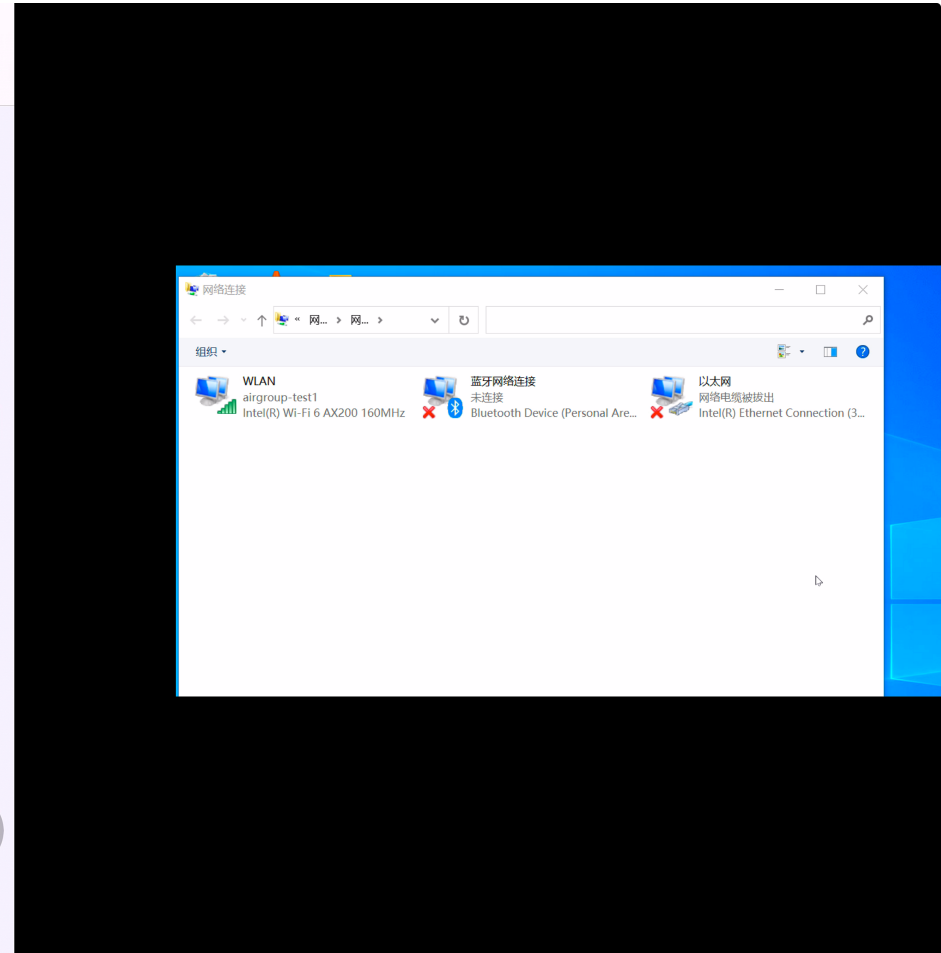
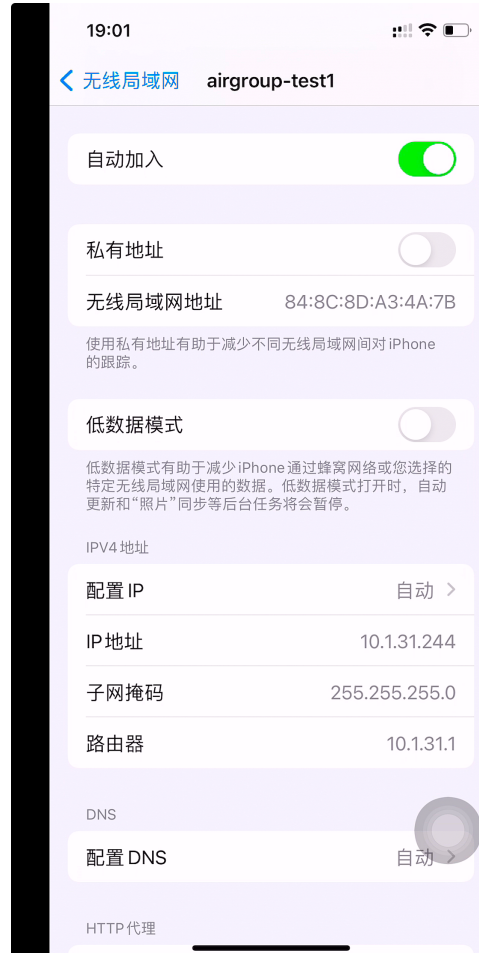
验证

(MM1) [mynode] (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	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	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	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	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	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



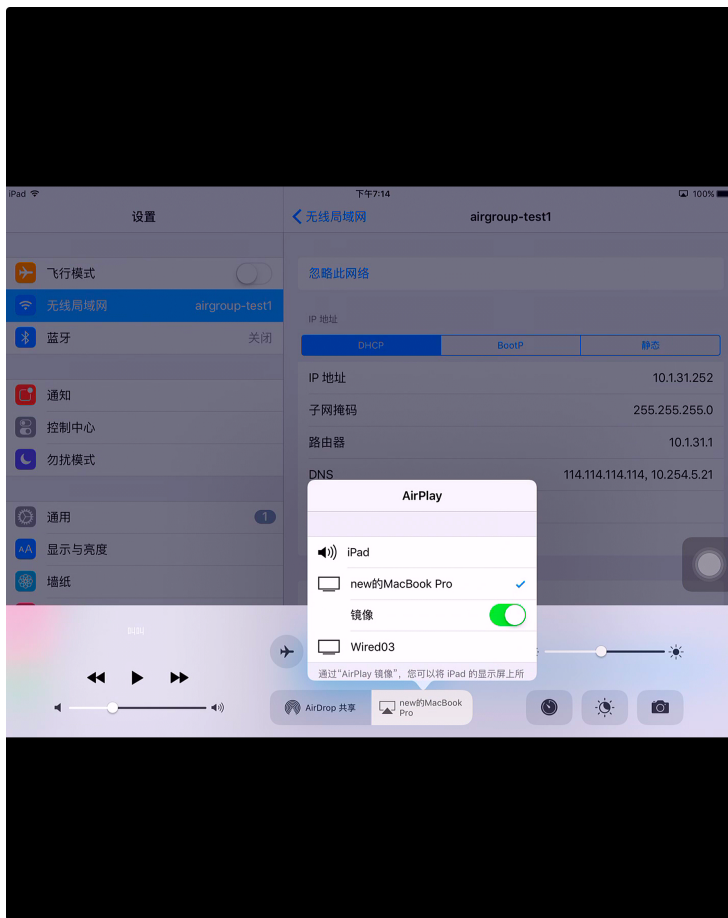
验证

(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



MOBILITY MASTER
MM1

CONTROLLERS 2 0 ACCESS POINTS 3 0 CLIENTS 5 0 ALERTS 0

Managed Network > lab >

Dashboard

Mobility Master

MM1

Managed Network (2)

lab (2)

MC1

MC2

Dashboard

Configuration

WLANs

Roles & Policies

Access Points

AP Groups

Authentication

Services

Interfaces

Controllers

System

Tasks

Redundancy

Maintenance

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

> ClearPass Policy Manager

> IPv6

> Domains

Server-Based Policy

MAC ADDRESS	HOST NAME	TYPE	
a4:4e:31:ce:61:a8	Wired03	wireless	
00:0e:c6:c4:88:cd	newdeMacBook-Pro...	N/A	

Devices:

+

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

Auto associate: None

AP name: AP3

Neighborhood hop(s): None

AP group:

AP FQLN:

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 charecters:250
```

```
(MM1) [lab] #airgroup policy ap-name device-mac 00:0e:c6:c4:88:cd add
STRING      comma separated Shared AP-name(s). max charecters: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: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-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	AP2								CLI		No
		AP3										
00:0e:c6:c4:88:cd	N/A	AP2								CLI		No
		AP3										

```
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-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	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	FQLN	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
									AP2	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	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
									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

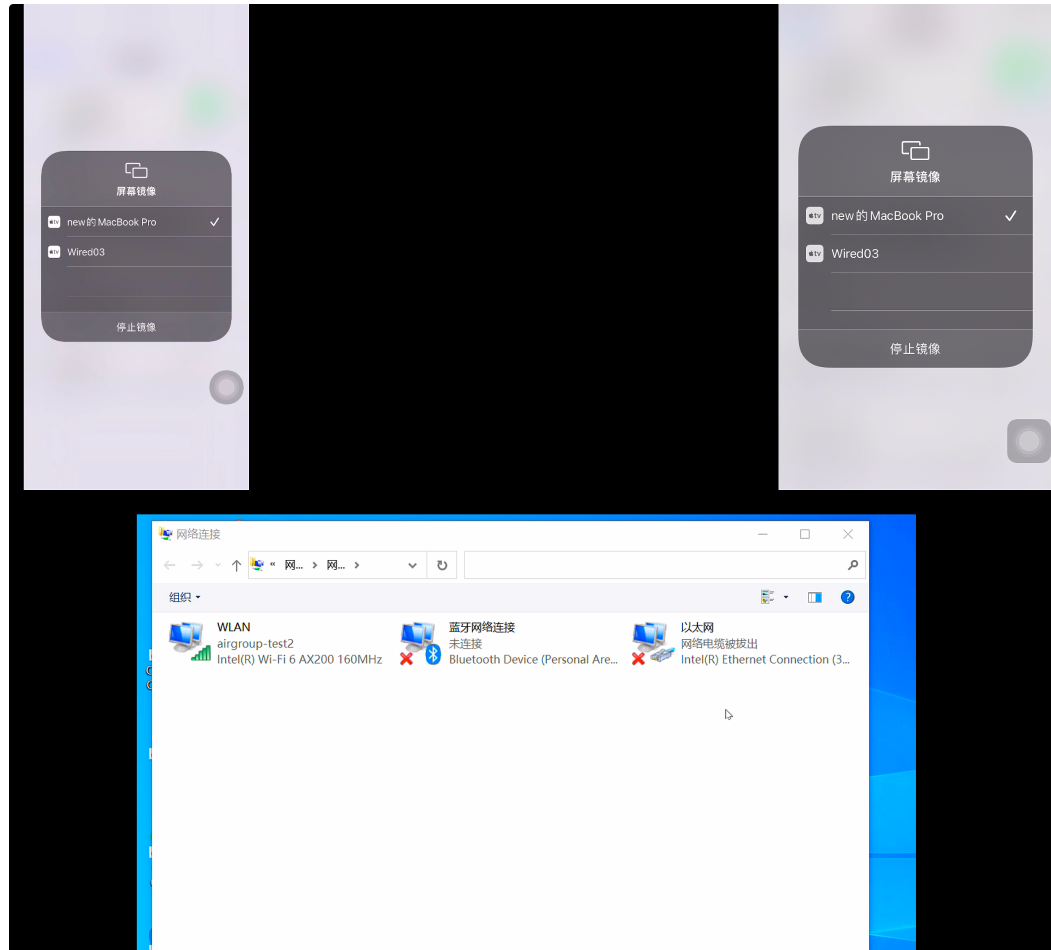
验证

(MM1) [mynode] #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



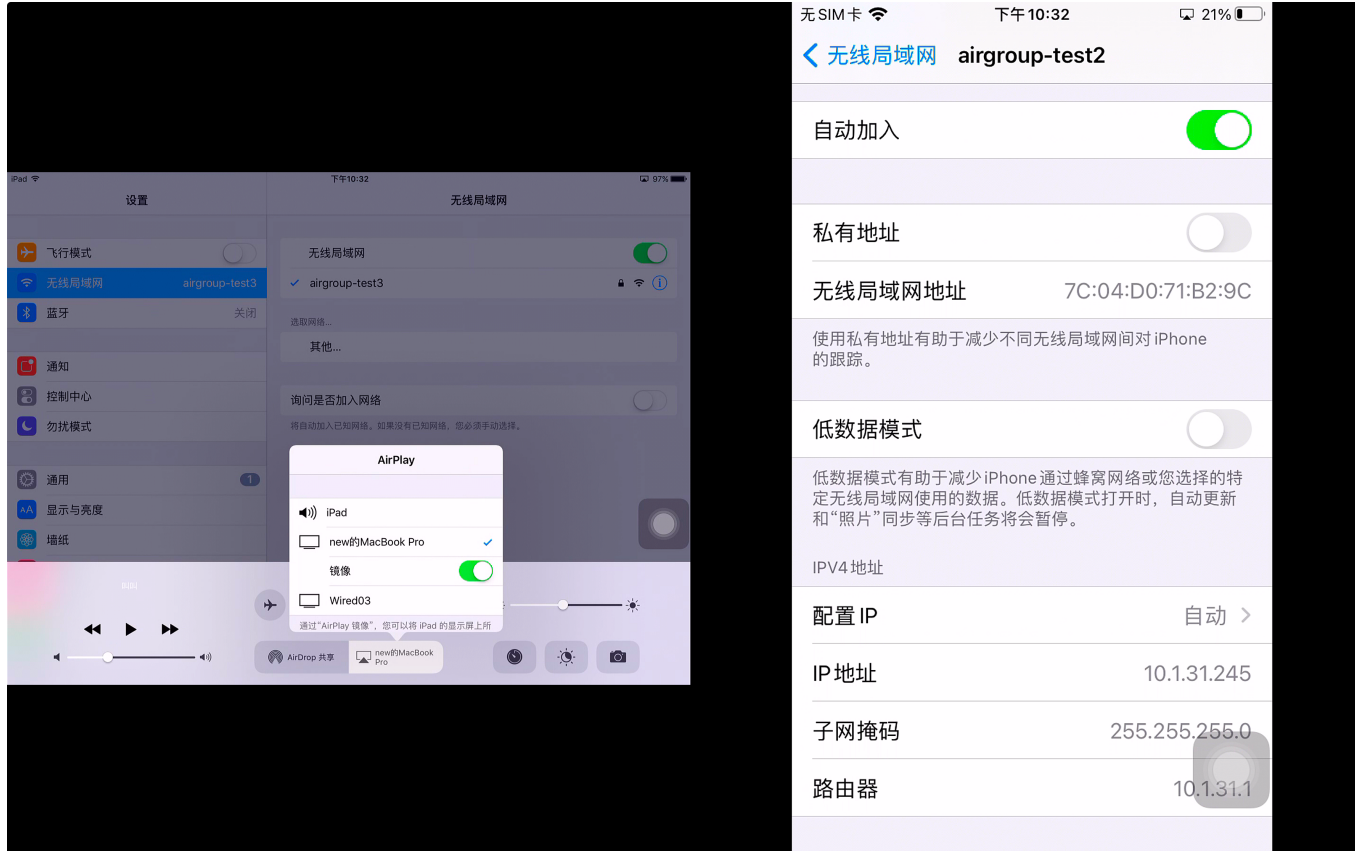
验证

(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



aruba

a Hewlett Packard
Enterprise company

Thank you