



Show Interface Commands

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الاختصار

show interface brief

<u>sh int b</u>

sh int con

Port	Type	Intrusion Alert	Enabled	Status	Mode	MDI Mode	Flow Ctrl	Bcast Limit
1 2 3 4 5	100/1000T 100/1000T 100/1000T 100/1000T 100/1000T	No No No No	Yes Yes Yes Yes Yes	Up Down Up Down Up	100FDx 1000FDx 1000FDx 1000FDx 1000FDx 1000FDx	MDI NA MDIX Auto MDIX	off off off off off	0 0 0 0 0

show interface config

Port Type | Enabled Mode Flow Ctrl MDI 1 100/1000T Disable Yes Auto Auto 23 100/1000T Yes Auto Disable Auto 100/1000T Disable Yes Auto Auto 4 100/1000T Disable Yes Auto Auto 5 100/1000T Yes Auto Disable Auto

show interface status

<u>sh int st</u>

Port	Name	Status	Config-mode	Speed	Туре	Tagged	Untagged
1 2 3 4 5 6 7		Up Up Up Down Up Down Up	Auto Auto Auto Auto Auto Auto Auto Auto	100FDx 100FDx 100FDx 1000FDx 1000FDx 1000FDx 1000FDx	100/1000T 100/1000T 100/1000T 100/1000T 100/1000T 100/1000T 100/1000T	200 200 200 200 200 200 200 200	9 4 9 9 9 9 9 9

show interface status

<u>sh int st</u>

Port	Tota	1 Bytes	Total Frames	Errors Rx	Drops Tx	Flow Ctrl	Bcast Limit
1	98	7.789.845	1.827.880	0	0	off	0
2	1,65	4,043,791	46,046,460	0	0	off	0
3	30	3,337,407	1,259,721	0	287	off	0
4		0	0	0	0	off	0
5	22	2,652,419	1,083,948	0	0	off	0
6		0	0	0	0	off	0
7	1,14	0,225,408	2,068,685	5330	0	off	0
8	3,50	3,093,519	55,823,962	1	0	off	0
9	23	0,493,684	1,120,740	0	0	off	0
10	3,45	2,672,411	59,264,345	0	0	off	0
11		0	0	0	0	off	0
Actions->	Back	Show det	ails Reset	Help			

Use up/down arrow keys to scroll to other entries, left/right arrow keys to change action selection, and <Enter> to execute action.

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show interface

<u>sh int</u>

Port	Total Bytes	Total Frames	Errors R	x Drops Tx	Ctrl	Bcast Limit
1	989,990,328	1,834,776	0	0	off	0
2	1,698,985,641	46,115,339	0	0	off	0
3	305,514,790	1,266,507	0	287	off	0
4	0	0	0	0	off	0
5	224,829,507	1,090,733	0	0	off	0
6	0	0	0	0	off	0
7	1,237,024,538	2,203,311	5330	0	off	0
8	3,564,345,486	55,908,217	1	0	off	0
9	233,226,016	1,130,047	0	0	off	0
10	3,536,608,554	59,365,254	0	0	off	0
11	0	0	0	0	off	0
12	0	0	0	0	off	0

show interface custum 40 choose:

(port, type, status, speed, mode, mdi, flow, name, vlan, enabled, intrusion, bcast)

Ex: sh int cu 40 port status speed

A-2-21# sh int cu 40 port status speed Status and Counters - Custom Port Status

Port Status Speed 40 Up 1000FDx

show running-config interface 1

sh run int 1

Running configuration:

```
interface 1
tagged vlan 200
untagged vlan 12
exit
```

```
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```

show interface 1

. .

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A-2-21# sh int 1

Status and Counters - Port Count	ters for	port 1	
Name :			
MAC Address : 98f2b3-646d	of		
Link Status : Up			
Port Enabled : Yes			
Totals (Since boot or last clea	ar) :		
Bytes Rx : 3,827,760,16	57	Bytes Tx	: 2,885,017,951
Unicast Rx : 37,738,802		Unicast Tx	: 128,265,937
Bcast/Mcast Rx : 3,121,885		Bcast/Mcast Tx	: 24,765,553
Errors (Since boot or last clea	ar) :		
FCS Rx : 1705		Drops Tx	: 447
Alignment Rx : 0		Collisions Tx	: 0
Runts Rx : 0		Late Colln Tx	: 0
Giants Rx : 5		Excessive Colln	: 0
Total Rx Errors : 1710		Deferred Tx	: 0
Others (Since boot or last clea	ar) :		
Discard Rx : 0		Out Queue Len	: 0
Unknown Protos : 0			
Rates (5 minute weighted average	ge) :	2	15 100
Total Rx (bps) : 0		Total Tx (bps) :	: 15,400
Unicast Rx (Pkts/sec) : 0		Unicast Tx (Pkts	s/sec) : 0
B/Mcast Rx (Pkts/sec) : 0		B/Mcast Ix (Pkts	s/sec) : 1
Utilization Rx : 0 %		Utilization Tx	: 00.01 %

show interface 1-3

<u>sh int 1-3</u>

Running configuration:

interface 1 tagged vlan 200 untagged vlan 12 exit interface 2 tagged vlan 200 untagged vlan 12 exit interface 3 tagged vlan 200 untagged vlan 12 exit

show interface 1-3

Running configuration:

```
interface 1
   tagged vlan 200
   untagged vlan 12
   exit
interface 2
tagged vlan 200
   untagged vlan 12
   exit
interface 3
tagged vlan 200
   untagged vlan 12
   exit
```

sh int 1-3

shint1



show interface port-utilization

<u>sh int p</u>

A-2-21# sh int port-utilization Status and Counters - Port Utilization

Dont	Mada	Rx			Tx			
Port	Mode	Kbits/sec	Pkts/sec	Util	Kbits/sec	Pkts/sec	Util	
1	100FDx	1 0	0	0	16	2	00.01	
2	1000FDx	0	0	0	0	0	0	
3	1000FDx	88	30	0	984	74	00.09	
4	1000FDx	0	0	0	0	0	0	
5	1000FDx	24	23	0	232	37	00.02	
6	1000FDx	0	0	0	8	2	0	
7	1000FDx	0	0	0	0	0	0	
8	1000FDx	456	152	00.04	2856	298	00.28	
9	1000FDx	0	0	0	0	0	0	

show interface tranceiver

Transceiver Technical Information:

Port	Туре	Product Number	Serial Number	Part Number
49	SFP+SR	J9150A	CN76G6256Z	1990-4391

<u>sh int tra</u> <u>sh tec tra</u>

Show VLAN Commands



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show vlans

Status and Counters - VLAN Information

Maximum VLANs to support : 256 Primary VLAN : MGMT Management VLAN :

VLAN ID	Name	Status	Voice	Jumbo
		+		
1	MGMT	Port-based	No	NO
2	Servers	Port-based	No	No
3	Bakcupsrvr	Port-based	No	No
4	IP_CAM	Port-based	No	No
5	Printers	Port-based	No	No
6	Finger_Print	Port-based	No	No
7	VDI	Port-based	No	No

show running-config vlan

Running configuration:

```
vlan 1
    name "MGMT"
    no untagged 1-47
    untagged 48-52
    ip address 10.1.1.21 255.255.255.0
    spanning-tree instance 1
    exit
vlan 2
    name "Servers"
    tagged 49
    no ip address
    spanning-tree instance 1
    exit
```

show vlans 12

<u>sh vl 12</u>

Status and Counters - VLAN Information - VLAN 12

VLAN ID : 12 Name : 2nd Floor Status : Port-based Voice : No Jumbo : No

Port Information	Mode	Unknown VLAN	Status
1	Untagged	Learn	Up
2	Untagged	Learn	Down
3	Untagged	Learn	Up
4	Untagged	Learn	Down
5	Untagged	Learn	Up
6	Untagged	Learn	Up
9	Untagged	Learn	Down
10	Untagged	Learn	Down

<u>sh vl</u>

<u>sh run vl</u>





sh run vl 12

On Core Switch

Running configuration:

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```
vlan 12
name "2nd Floor"
tagged A2-A8,B1-B8
ip helper-address 10.1.2.3
ip address 10.1.12.1 255.255.255.0
spanning-tree instance 1
exit
```

On Edge Switch

Running configuration:

vlan 12 name "2nd Floor" tagged 49 untagged 1-6,8-17,21,25-46 no ip address spanning-tree instance 1 exit

show vlan ports 1-5

<u>sh vl p 1-5</u>

Status and Counters - VLAN Information - for ports 1-5

VLAN ID	Name	ļ	Status	Voice	Jumbo
12	2nd Floor	Ì	Port-based	No	No
200	Voice		Port-based	Yes	No

show vlans custom name

<u>sh vl p 1-5</u>

choose: (id, name, status, voice, jumbo, ipconfig, ipaddr, ipmask, proxyarp, localproxyarp, state)

Status and Counters - VLAN Information - Custom view

VLAN name

MGMT Servers Bakcupsrvr IP_CAM Printers Finger_Print VDI EIS-Admin

Show MAC-Address Commands

show mac-address

Status and Counters - Port Address Table

MAC Address	Port	VLAN
00fd45-624200	49	1
00fd45-6252de	49	1
000c29-08c279	49	2
000c29-371958	49	2
002155-fd861a	49	2
005056-8c19ba	49	2
005056-8c1a38	49	2
005056-8c31ff	49	2
005056-8c456f	49	2
005056-8c5d31	49	2
005056-8c7451	49	2
005050 0 00	4.0	-

show mac-address vlan 10

Status and Counters - Address Table - VLAN 10

MAC Address	Port
002155-fd861a	49
005056-8ce287	49
00c0b7-838ac4	49
00c0b7-9006d4	49
5065f3-31140b	49
787b8a-abbce8	49
f83f51-0b679a	49
f83f51 0b6c4f	40

sh mac-add

لرؤية جميع الـ Mac Address للأجهزة المتصلة على السويتش

لرؤية جميع الـ Mac Address للأجهزة المتصلة على السويتش الخاصة بـ فيلان رقم 10

sh mac-add vl 10

show mac-address | include 94e1

94e1ac-1cfda1	49	4	ah maa add in a 04 at
94e1ac-1cfda2	49	4	<u>sn mac-ada mc 94e1</u>
94e1ac-1cfda6	49	4	
94e1ac-1cfda8	49	4	للدجث عن الأجعز ة بجز ء من الـ
94e1ac-1cfdaa	23	4	
94e1ac-1cfdab	49	4	Mac Address
94e1ac-1cfdac	49	4	
94e1ac-1cfdb2	49	4	
94e1ac-1cfdb4	49	4	

show mac-address 94e1ac-20ee68

<u>sh mac-a 94e1ac-20ee68</u>

Status and Counters - Address Table - 94e1ac-20ee68

Port VLAN

31 4

للبحث عن جهاز واحد بالـ Mac Address

الاختصار





show mac-address 5

Status and Counters - Port Address Table - 5

sh mac-add 5

للبحث عن Mac Address الخاص بـ بورت رقم 5

show mac-address 35-40

Status and Counters	s - Port Address Table - 30
MAC Address	VLANs
f83f51-0b67ea	11
Status and Counters	s - Port Address Table - 31
MAC Address	VLANs
94e1ac-20ee68	4
Status and Counters	s - Port Address Table - 32
MAC Address	VLANs
f83f51-ee2fa4	11
Status and Counters	s - Port Address Table - 33
MAC Address	VLANs
Status and Counters	s - Port Address Table - 34
MAC Address	VLANs
Status and Counters	s - Port Address Table - 35
MAC Address	VLANs

sh mac-add 1-5

Show Connected Devices with Switch

#To Show all Devices that connect on your switch (Another Switch, Access Point or IP Phone

Show CDP neighbors

CDP neighbors information

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Port	Device ID	Platform	Capability
20	01 0a 01 c8 26 34 fc b9 cb b4 6e	ArubaOS (MODEL: 305) Ver	S
37 43	01 0a 01 c8 10 34 fc b9 cb b4 32	ArubaOS (MODEL: 305), Ver	S
45 47	01 0a 01 c8 1c Switch	Cisco IOS Software, C3560	S S
48 49	Switch 00 fd 45 62 42 00	Cisco IOS Software, C3560 HP J9850A Switch 5406Rz12	S R S
		•	

Show lldp info remote-device

LLDP Remote Devices Information

LocalPort	ChassisId	PortId	PortDescr	SysName
2	10.1.200.18	64 c3 54 9a 73 b8	bond0	AVX9A73B8
3	34fcb9-ca6e40	34 fc b9 ca 6e 40		A-101:b9:ca:6e:40
26	10.1.200.11	64 c3 54 9a 1d 38		AVX9A1D38
36	24f2/f-c6e4fa	24 f2 /f c6 e4 fa	bond0	A-Clinic:c6:e4:fa
37	34fcb9-cbb33c	34 fc b9 cb b3 3c	bond0	A-104-Alex:cb:b
41	34†cb9-cbb2†a	34 fc b9 cb b2 fa	bond0	A-109:cb:b2:ta
44	10.1.200.48	c8 1f ea 5d 37 7b		AVX5D377B
45 46 49	10.1.200.39 00fd45-624200	64 c3 54 99 8d 2f 7	A7	AVX998D2F LVNG-Core

دائماً لحفظ الأوامر بعد عمل أي تعديل يجب كتابة الأمر

wr me

sh cdpne

لمعرفة الأجهزة المتصلة بالسويتش

الاختصار

sh ll in r



Show lldp info remote-device 3

sh ll in r 3

لرؤية تفاصيل الجهاز المتصل بالسويتش على البورت رقم 3

LLDP Remote Device Information Detail

Local Port	:	3
ChassisType	:	mac-address
ChassisId	:	34fcb9-ca6e40
PortType	:	mac-address
PortId	:	34 fc b9 ca 6e 40
SysName	:	A-101:b9:ca:6e:40
System Descr	:	ArubaOS (MODEL: 305), Version Aruba IAP
PortDescr	:	bond0
Pvid	:	

System Capabilities Supported : bridge, wlan-access-point System Capabilities Enabled : wlan-access-point

Remote Management Address Type : ipv4 Address : 10.1.100.216

Poe Plus Information Detail

Poe Device Type	1	Type2 PD
Power Source	1	Only PSE
Power Priority	1	Unknown
Requested Power Value	1	19.5 Watts
Actual Power Value	1	19.5 Watts



Media Policy Tagged

Poe Device Type

sh ll in r d

Show lldp info remote-device detail

لرؤية تفاصيل الأجهزة المتصلة بالسويتش

Remote Management Address Type : ipv4 Address : 10.1.200.18 MED Information Detail EndpointClass :Class3 Media Policy Vlan id Media Policy Priority Media Policy Dscp Media Policy Tagged :200 :6 :46 :True Poe Device Type :PD Power Requested :3.7 W Power Source Power Priority :Unknown :High _____ _____ : 3 Local Port ChassisType : mac-address ChassisId : 34fcb9-ca6e40 : mac-address PortType : 34 fc b9 ca 6e 40 : A-101:b9:ca:6e:40 PortId SysName System Descr : ArubaOS (MODEL: 305), Version Aruba IAP PortDescr : bond0 Pvid System Capabilities Supported : bridge, wlan-access-point System Capabilities Enabled : wlan-access-point Remote Management Address туре : ipv4 Address : 10.1.100.216 Poe Plus Information Detail Poe Device Type : Type2 PD Power Source Power Priority : Only PSE : Unknown Requested Power Value : 19.5 Watts Actual Power Value : 19.5 Watts Local Port : 26 ChassisType : network-address : 10.1.200.11 ChassisId PortType : mac-address : 64 c3 54 9a 1d 38 PortId SysName : AVX9A1D38 System Descr : PortDescr Pvid System Capabilities Supported : bridge, telephone System Capabilities Enabled : bridge, telephone Remote Management Address туре і ірv4 Address : 10.1.200.11 MED Information Detail EndpointClass :Class3 Media Policy Vlan id Media Policy Priority :200 :6 Media Policy Dscp :46

:True

:PD

{Rename Switch and Give it IP Address}

لمعرفة الأمر كاملاً بدل الإختصال يمكنك الضغط على ذر Tab

لمعرفة باقي استكمال الأمر يمكنك الضغط على ?



الاختصار

Give Switch new name:

conf hostname SW1 exit

Give Switch IP Address:

conf vlan 1 ip add 10.1.1.1 255.255.255.0 *e*xit

{Create Password for Switch}

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<u># Create Admin Password (can do everything):</u>

conf

password manager username admin password P@ssw0rd

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conf pas ma u admin p P@ssw0rd

<u># Create Operator Password (for view only):</u>

conf password operator username omar password P@ssw0rd

الاختصار

conf pas o u omar p P@ssw0rd

Recovering from a lost manager password:

If you cannot start a console session at the manager level because of a lost manager password, clear the password by following these steps:

Get physical access to the switch.

Press and hold the Clear button on the switch for a minimum of one second.

This deletes all passwords and usernames $(manager\,and\,operator)\,used\,by$ the console and the WebAgent.

Create VLANs



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<u># Create VLANs on Core Switch with Interface IP Address:</u>

conf vlan 10 name LAN tagged A2-A8,B1-B8 exit vlan 10 ip add 10.1.10.1 255.255.255.0 exit vlan 20 name wifi tagged A2-A8,B1-B8 ip add 10.1.20.1 255.255.255.0 exit vlan 30 name Voice tagged A2-A8,B1-B8 exit ip add 10.1.30.1 255.255.255.0 exit

حيث أن الـ A2-A8,B1-B8 هى أرقام البورتات على ال **Core Switch**

<u># Create VLANs on Edge Switch:</u>

conf vlan 10 name LAN tagged 49 exit vlan 20 name wifi tagged 49 exit vlan 30 name Voice tagged 49 exit

حيث أن الـ 49 هو رقم البورت المتصل بالـ Core Switch

Assigning ports to VLANs



Add one port to vlan:

conf
int 1
untagged vlan 10
exit
wrme

Add multiple ports to vlan:

conf int 1-48 untagged vlan 10 exit wrme

<u># Shutdown one port:</u>	<u># Shutdown Multiple Ports:</u>
conf	conf
int 1	int 1-5
disable	disable
exit	exit
<u># Enable one port:</u>	<u># Enable Multiple Ports:</u>
conf	conf
int 1	int 1-5
enable	enable
exit	exit

Create Port Trunk

ملحوظة هامة جدا : يجب عدم توصيل أي كابلات بالبورت المراد جعله ترانك إلا بعد عمل الإعدادات المطوبة أو يجب إغلاق البورت أولا ثم عمل إعدادات الترانك لتجنب عمل Broadcast Storm

<u># Create one port as Trunk:</u>

conf trunk 46 Trk1 trunk *e*xit wrme

<u># Create Multiple ports as Trunk:</u>

conf trunk 47-48 Trk1 trunk exit wrme

<u># Assign vlan to trunk :</u>

conf vlan 10 untagged trk1 exit vlan 11 tagged trk1 exit wrme

Assign Multiple vlans to trunk :

conf vlan 10-15,100,200 tagged trk1 exit wrme

Remove Port Trunk

ملحوظة هامة جدا: إلغاء البورت من إعدادات الترانك قد تؤدي إلى عمل Loop يؤدي إلى Broadcast Strom ولهذا يجب فصل البورت أو إغلاقه أولاً

<u># Remove vlan from trunk :</u>

conf vlan 10 no tagged trk1 exit wrme

<u># Remove Multiple vlan to trunk :</u>

conf vlan 10-15,100,200 no tagged trk1 exit wrme

<u># Remove trunk from port :</u>

conf	
no trunk	46
exit	
wrme	

<u># Show trunk Command :</u>

show trunk

Port	Ļ	Name	Туре	Į.	Group	Туре
47 48	 	Connect Cisco SW Connect Cisco SW	100/1000T 100/1000T	Ì	Trk1 Trk1	LACP LACP

<u># Create LACP Link Aggregation</u>

<u># Configuration for a Two Ports LACP Trunk Group :</u>

conf int 47-48 lacp active trunk 47-48 trk1 lacp exit vlan 6 untagged trk1 exit vlan 7 tagged trk1 exit wrme

Remove lacp trunk from port :

conf no trunk 47-48 *e*xit wr me

LACPLinkAggregation Commands

show lacp

Port	LACP Enabled	Trunk Group	Port Status	Partner	LACP Status	Admin Key	Oper Key
47 48	Active Active	Trk1 Trk1 Trk1	 Uр Up	Yes Yes	Success Success	0 0	532 532 532

LACP

show run int 47-48

Running configuration:

interface 47
 name "Connect Cisco SW"
 untagged vlan 1
 trunk trk1 lacp
 exit
interface 48
 name "Connect Cisco SW"
 untagged vlan 1
 trunk trk1 lacp
 exit

<u>show run vlan 6</u> Running configuration:

vlan 6 name "Finger_Print" tagged 49,Trk1 no ip address spanning-tree instance 1 exit

show lacp peer

LACP Peer Information.

System ID: 00fd45-01df00

Local Port	Local Trunk	System ID	Port	Port Priority	Oper Key	LACP Mode	Tx Timer
47 48	Trk1 Trk1 Trk1	002155-fd8600 002155-fd8600	25 26	32768 32768	1 1	Active Active	Slow Slow

show lacp counter

LACP Port Counters.

Port	Trunk	LACP PDUs Tx	LACP PDUs Rx	Marker Req. Tx	Marker Req. Rx	Marker Resp. Tx	Marker Resp. Rx	Error
47 48	Trk1 Trk1 Trk1	68663 48165	74232 52034	0 0	0 0	0 0	0 0	0 0

show vlans ports trk1 detail

Status and Counters - VLAN Information - for ports Trk1

VLAN ID	Name	Status	Voice	Jumbo	Mode
1 2 3 4 5 6 7 8 9	MGMT // Servers // Bakcupsrvr // IP_CAM // Printers // Finger_Print // VDI // Building_B // ETS	Port-based Port-based Port-based Port-based Port-based Port-based Port-based Port-based	NO NO NO NO NO NO NO NO	NO NO NO NO NO NO NO NO NO	Untagged Tagged Tagged Tagged Tagged Tagged Tagged Tagged Tagged
10	Basement	Port-based	No	No	Tagged

<u># Spanning-Tree Configuration</u>

<u># On Core Switch</u> spanning-tree spanning-tree config-name"LV" spanning-tree config-revision 1 spanning-tree instance 1 vlan 1-200 1003 spanning-tree root primary priority 0

<u># On Edge Switch</u>

spanning-tree spanning-tree config-name "LV" spanning-tree config-revision 1 spanning-tree instance1vlan1-200 spanning-tree ethernet 1-48 auto-edge-port wrme

Spanning-Tree Commands

sh spanning-tree

Multiple Spanning Tree (MST) Information

STP Enabled : Yes Force Version : MSTP-operation IST Mapped VLANs : 201-4094 Switch MAC Address : 00fd45-01df00 Switch Priority : 32768 Max Age : 20 Max Hops : 20 Forward Delay : 15 Remove spanning-tree

conf no spanning-tree

sh spanning-tree mst-config

MST Configuration Identifier Information

MST Configuration Name : LV MST Configuration Revision : 1 MST Configuration Digest : 0xADF9F66DCC3DAE48D84499FF88009B20 IST Mapped VLANs : 201-4094 Instance ID Mapped VLANs 1 1-200

Spanning Tree Configuration

Configure DHCP from server 10.1.2.3

conf vlan 10 ip helper-address 10.1.2.3 exit vlan 20 ip helper-address 10.1.2.3 exit

Configure DHCP pool on Core Switch :

conf dhcp-server disable dhcp-server pool "AP" default-router "10.1.100.1" dns-server "10.1.2.3,8.8.8.8" lease 08:00:00 <u>OR</u> lease infinite network 10.1.100.0 255.255.255.0 range 10.1.100.121 10.1.100.250 exit dhcp-server enable vlan 100 dhcp-server wr me

<u># Configure DHCP pool on Core Switch :</u>

conf dhcp-server disable dhcp-server pool "AP" static-bind ip 10.1.100.100 255.255.255.0 mac 42:EC:ED:A3:B3:64

DHCP show commands

show dhcp-server

Configuration and Status - DHCP Server

DHCP Server Enabled	:	Yes
DHCPv4 Operational Status	:	Enabled
Traps Enabled	:	Yes
Persistent Lease Database	:	No
Conflict Logging Enabled	:	No
DHCP VLAN Interfaces	:	100,101

show dhcp-server pool

Status and Counters - DHCP Server Pools

Pool : AP Lease Period : 1:00:00 Low Threshold : 26 High Threshold : 104 Free Leases : 88

show dhcp-server binding

Status and Counters - DHCP Server Bindings

Pool : AP

IP Address	Hardware Address	Lease Expiration	Туре
$\begin{array}{c} 10.1.100.186\\ 10.1.100.187\\ 10.1.100.187\\ 10.1.100.188\\ 10.1.100.190\\ 10.1.100.190\\ 10.1.100.191\\ 10.1.100.191\\ 10.1.100.193\\ 10.1.100.193\\ 10.1.100.195\\ 10.1.100.196\\ 10.1.100.196\\ 10.1.100.196\\ 10.1.100.198\\ 10.1.100.198\\ 10.1.100.201\\ 10.1.100.201\\ 10.1.100.203\\ 10.1.100.203\\ 10.1.100.204\\ 10.1.100.205\end{array}$	24f27f-c6e50e 24f27f-c6e3cc 24f27f-c6e490 24f27f-c6e56a 24f27f-c6e392 24f27f-c6e4fa 24f27f-cab224 24f27f-cab224 24f27f-cab262 34fcb9-cb46c 34fcb9-cb432 34fcb9-ca6e52 34fcb9-ca6e52 34fcb9-ca6e16 34fcb9-ca6e16 34fcb9-ca6e30 34fcb9-ca6e30 34fcb9-ca6e22 34fcb9-ca6e22 34fcb9-cb94ac 34fcb9-cb94ac	Apr 25 2019 19:20:25 Apr 25 2019 19:20:26 Apr 25 2019 19:20:26 Apr 25 2019 19:20:30 Apr 25 2019 19:20:32 Apr 25 2019 19:20:32 Apr 25 2019 19:21:10 Apr 25 2019 19:21:12 Apr 25 2019 19:23:21 Apr 25 2019 19:23:21 Apr 25 2019 19:23:22 Apr 25 2019 19:23:25 Apr 25 2019 19:23:25 Apr 25 2019 19:23:25 Apr 25 2019 19:23:25 Apr 25 2019 19:23:24	Dynamic Dynamic

#To clear dhcp IPs:

clear dhcp-ser bin

Device-Profile Configuration

<pre># Create Device-Profile for Access Point: :</pre>	ىب الجهاز
conf	به
device-profilename"AP"	توصير ل
untagged-vlan 100	Aruba A
tagged-vlan 5,14-21,23-28	فیلان ال ـ AP
exit	سي ل
device-profile type "aruba-ap"	Arub إلى ترد ك
associate"AP"	P) يتحول
enable	ن الأجه زة
exit	دل منك

لتغيير البورت حسب الجهاز المتصل به بمعنى لو تم توصي ل Aruba Access Point ولو تم توصي ل ولو تم توصي ل يتحول البورت إلى ترذك ولو تم توصيل PC يتحول البورت إلى فيلان الأجه زة كل دا بدون تخدل منك

<u># Create Device-Profile for Aruba Switch:</u>

conf

device-profile name "SW"

```
tagged-vlan 2-21,23-28,100,200
```

exit

```
device-profile type "aruba-switch"
```

associate"SW"

enable

exit

show device-profile status

Device Profile Status

Port	Device-type	Applied device profile
3	aruba-ap	AP
4	aruba-ap	AP
6	aruba-ap	AP
8	aruba-ap	AP
10	aruba-ap	AP
12	aruba-ap	AP
13	aruba-ap	AP
14	aruba-ap	AP
16	aruba-ap	AP
18	aruba-ap	AP
20	aruba-ap	AP
21	aruba-ap	AP
25	aruba-switch	SW

show device-profile config

Device Profile Configuration

Configuration for de	vice-profile : default-ap-profi
untagged-vlan :	1
tagged-vlan :	None
ingress-bandwidth :	100%
egress-bandwidth :	100%
cos :	None
speed-duplex :	auto
poe-max-power :	Class/LLDP
poe-priority :	critical
allow-jumbo-frames:	Disabled
Configuration for der	vice-profile : AP
untagged-vlan :	101
tagged-vlan :	2,5,9,11,14-21,23-28
ingress-bandwidth :	100%
egress-bandwidth :	100%
cos :	None
speed-duplex :	auto
poe-max-power :	Class/LLDP
poe-priority :	critical
allow-jumbo-frames:	Disabled
Configuration for de untagged-vlan : tagged-vlan : ingress-bandwidth : egress-bandwidth : cos : speed-duplex : poe-max-power : poe-priority : allow-jumbo-frames:	vice-profile : SW 1 2-28,100-101,200 100% None auto Class/LLDP critical Disabled

Remove Device-Profile :

le

Remove Device-Profile for Access Point :

conf

no device-profile type "aruba-ap"

no device-profile name "AP"

Remove Device-Profile for Aruba Switch :

conf

no device-profile type "aruba-switch"

no device-profile name "SW"

SNMP-Server Configuration

Create SNMP-Server with ICM server IP 10.1.2.9:

conf

snmp-server community "public" unrestricted

snmp-server community "LV" operator unrestricted

snmp-server host 10.1.2.9 community "LV" trap-level all

snmpv3 targetaddress "traphost.LV.10.1.2.9" params "traphost.LV.10.1.2.9"

10.1.2.9 taglist "TrapHost"

snmpv3 params "traphost.LV.10.1.2.9" user "LV" sec-model ver2c messageprocessing ver2c

Show snmp-server

SNMP Communities

Community Name	MIB View	Write Access
public	Manager	Unrestricted
LV	Operator	Unrestricted

Trap Receivers

Link-Change Traps Enabled on Ports [All] : All

Traps Category

II]: AII

Current Status

SNMP Authentication		:	Extended			
Password change		:	Enabled			
Login failures		:	Enabled			
Port-Security		:	Enabled			
Authorization Server Conta	act	:	Enabled			
DHCP-Snooping		:	Enabled			
DHCPv6-Snooping Out of Res	source	:	Enabled			
DHCPv6-Snooping Errant Re	olies	:	Enabled			
Dynamic ARP Protection		:	Enabled			
Dynamic IP Lockdown		:	Enabled			
Dynamic IPv6 Lockdown Out	of Resource	:	Enabled			
Dynamic IPv6 Lockdown Vio	lations	:	Enabled			
Startup Config change		2	Disabled			
Running Config Change		:	Disabled			
MAC address table changes		2	Disabled			
MAC Address Count		2	Disabled			
DHCP-Server		:	Enabled			
NTP-Client		:	Disabled			
ND Snooping Out of Resour	es Traps	:	Enabled			
Address Cor	nmunity		Events	Туре	Retry	Timeout
10.1.2.9 LV			All	trap	3	15

Access-List Configuration

<u># Create access-list to allow specific vlan and specific hosts to access</u> <u>specific vlan and specific Host:</u>

conf

ip access-list extended "NVR"

10 permit ip 10.1.14.0 0.0.0.255 10.1.4.0 0.0.0.255

11 permit ip 10.1.7.47 0.0.0.0 10.1.4.253 0.0.0.0

12 permit ip 10.1.12.83 0.0.0.0 10.1.4.0 0.0.0.255

13 deny ip 0.0.0.0 255.255.255 0.0.0.0 255.255.255

exit

vlan4

ip access-group "NVR" out