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CCIE Enterprise Wireless v1.0 Real Labs Deploy Operate and Optimize Module

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Lab Workbook Policy

1. We highly discourage sharing of the workbook hence the workbooks are mapped to Laptop/Desktop MAC address. If one tries to open the workbook on other desktop or laptop than the registered MAC address; account will get locked and we will not unlock it for any reasons.

2. The workbook does not have print access; kindly do not request to enable to print access. However you will have perpetual access to the workbook which you have purchased.

3. One will be provided with free updates up to 120 days from the date of purchase, post that one need to renew his/her account to access the latest update. However one will continue to have access to their existing workbooks. If you pass the lab within 120 days, you are not eligible for further updates.

4. If one wish to renew their subscription/account, you need to renew within 120 days or before the account gets expired. Post 120 days one can renew their account however the renewal will be considered has a new purchase. Hence we encourage one to renew within 120 days of the purchase.

5. The renewal cost is 999 USD if one pay within 120 days, if one fail to renew then the cost will be equivalent of a new purchase. (The renewal price can be changed at any time, without informing the client)

6. Every workbook is uniquely identified for each user with hidden words. If one shares his/her workbooks with others, and if the system detects the share, the account will be banned and we will not entertain any explanation of any sort.

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8. We do require CISCO ID and Official email id for security purposes. We do not sell without these details. We do background verification of the details provided, so request to give us the correct CISCO ID and official email id.

9. The workbooks are in secured pdc format and delivered via email within 24 hours after payment is received.

10. License is provided for only one Device. And we don't give license again if the device crashes or company security policies. Please install license on the device cautiously as the license will not be provided again.

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11. We do support devices running Windows OS, Mac OS, Android and Mac iOS only

12. We do not provide Refund in any circumstances once the product is sold.

13. This policy is in effect from 23 November 2016 and in immediate effect for new clients and new renewals. Old clients will continue with the old Policies until the accounts get expired.

14. If there is any update, one will receive the update automatically on their registered email it

15. Design Module will be given only 3 days before the CCIE exam

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16. For any future update you can check our 'updates' page.

17. Labs are always published in phases. For e.g. if there is a new lab we publish it as First, Second, Third ... till Final release.

18. Client who have purchased our worbooks and services and wishes to attempt the lab, need to consult our experts before their CCIE Lab.

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Deploy, Operate and Optimize Guidelines

Before you begin, please read these guidelines:

Overall module guidelines:

- 1. The network that you will deploy, operate and optimize in this module will be similar, but not necessarily identical, to the network designed in the previous module. All relevant information that is needed to successfully complete this module can be found in **this** module itself and overrides any information that was provided in the previous module.
- 2. Before you start, confirm that all devices in your rack are accessible. During the exam, if any device becomes locked or inaccessible, you must recover it.
- 3. Your equipment is partially preconfigured. Do not change any of the preconfigured parameters unless you are specifically told to.
- 4. The partial configuration on the devices may deliberately contain mistakes and errors which may need to be corrected, or workarounds applied, in order to complete specific taks. Therefore, consider troubleshooting as an integral part of this module.
- 5. Points are awarded only for fully working configurations. No partial scoring is provided. It is recommended that toward the end of the exam, you go back and test the functionality as per all question requirements.
- 6. If you need clarification on any of the questions, or if you suspect that there might be an issue with your equipment or exam environment, contact the lab proctor as soon as possible.
- 7. Item-level feedback can be provided at the question level. Feedback will be processed, but Cisco will not reach out to you to discuss any feedback provided. You will not be compensated for the time you spend while providing the feedback.
- Access to select Cisco online documentation is available from your desktop. Access to select 3rd party product documentation (such as Python) is available from the Resources window under the "External Documentation" category.
- 9. When you finish the lab exam, make sure that all devices are accessible for the grading proctor by having them in EXEC mode and closing the console windows. A device that is not accessible for grading cannot be graded and this may cause you to lose substantial points.
- 10. You have 5 hours to complete this module. Upon finishing the exam, ensure that all device are accessible. Any device that is not accessible for grading purposes may cause you to lose substantial points.

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Task specific guidelines:

- There are several end hosts present in the lab topology, named hostXY (for example, host11). They are all identical and they can all be used at your full discretion, including accessing the GUI of DNA Center, vManage and ISE through Firefox, performing IP connectivity tests, generating or capturing traffic, and performing coding in Python or C.
- All hostXY devices are configured as DHCP clients. Should it be necessary to force the host to release and renew its DHCP lease, right-click on the icon of the network manager located between CPU utilization and check applets in the bottom task bar, then unselects "Enable Networking", right-click on it again and select "Enable Networking".
- 3. The web-based GUI of DNA center, vManage and ISE can only be accessed from the hostXY end hosts, using firefox installed on these end hosts. These servers rannot be accessed directly from the desktop you are just now working with. You must always connect to hostXY as a jump host and access the DNA center, vManage or ISE from there. Always ignore any SSL/TLS certificate warnings in Firefox that may be displayed.
- 4. Devices in the top ology may have more interfaces, addresses and routes configured than what is shown in the diagrams and accompanying tables. Ignore such interfaces addresses and routes entirely, unless a task explicitly requires you to use or modify them.
- 5. Changing or removing parts of initial running configuration on devices, as opposed to adding new configuration, is allowed only if the task allows or requires it explicitly, or if there is no other way of accomplishing the task

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Conceptual Diagram





Logical Diagram





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L2/L3 Information

VLAN Name	VLAN ID	Network/Mask	Default GW					
London Data Centre(UKDC1)								
Servers	11	10.1.1.0/24	10.1.1.253	Ś				
DMZ	12	10.1.2.0/24	10.1.2.253	Infrastructure				
	Manchester Warehouse(UKWH1)							
Infrastructure		10.10.1x.0/24						
Infrastructure Lo0		10.10.127.x/24		2				
WLC MGMT	20	10.10.20.0/24	10.10.20.253					
AP1	31	10.10.31.0/24	10.10.31.253	Win Server				
AP2	32	10.10.32.0/24	10.10.32.253	Win Server				
Internal	101	10.10.101.0/24	10.10.101.253	Win Server				
ют	102	10.10.102.0/24	10.10.102.253	Win Server				
	UK	Remote Branch (UKRB0	L)					
AP	31	10.30.31.0/24	10.30.31.253	Infrastructure				
Internal	101	10.30.101.0/24	10.30.101.253	Infrastructure				
ΙοΤ	102	10.30.102.0/24	10.30.102.253	Infrastructure				
	Kuala L	umpur Data Centre(MA	LDC1)					
Servers	21	10.2.1.0/24	10.2.1.253					
DMZ	22	10.2.2.0/24	10.2.2.253	Infrastructure				
Singapore WareHouse (MALWH1)								
Underlay	\leq	10.20.1x.0/24						
Underlay Lo0		10.20.127.x/24						
WLC MGMT		10.20.20.0/24	10.20.20.253					
WLC Redundancy Port)	169.254.20.0/24						
АР		10.20.31.0/24	10.20.31.253	Win Server				
Internal		10.20.101.0/24	10.20.101.253	Win Server				
Ιστ		10.20.102.0/24	10.20.102.253	Win Server				
Guest		10.20.103.0/24	10.20.103.253	Win Server				
	Asia	Remote Branch (MALRB	01)					
Underlay		10.40.1x.0/24						
Underlay Lo0		10.40.127.x/24						
AP		10.40.31.0/24	10.40.31.253	Win Server				
Internal		10.40.101.0/24	10.40.101.253	Win Server				
ΙοΤ		10.40.102.0/24	10.40.102.253	Win Server				
Guest		10.40.103.0/24	10.40.103.253	Win Server				

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VMs Info.

As part of your lab setup, the below VMs will be available to you

- CMX 10.6
- DNA Center 1.3
- Identity Services Engine (ISE) 2.4
- Windows Server 2016- this server is preconfigured. No candidate configuration is required here.
 - If a task requires to join ISE to Active Directory, use the following credentials:
 - Username Administrator
 - Password CC!ewir4
- Windows 10 (Client PC) with:
 - Cisco AnyConnect the AnyConnect configuration .xml profile is fully preconfigured and locked down. Please note, If at any point during your exam no SSIDs can be seen in AnyConnect consider these two troubleshooting techniques before you contact the proctor.
 - 1. Disable/Enable the wireless adapter (can be done through AnyConnect)
 - 2. Reboot the Client PC (shutdown -r).
 - Cisco Jabber
 - FTP server
 - Putty & MTPuTTY- for SSN access from the Client PC.
 - TFTP server
 - Web browsers- Chrome, Firefox, and Internet Explorer are all available.
 - Chrome and Firefox have preconfigured tabs.

Device	IP address	Username	Password	 Reachable via	
		Admin (GUI)	CClowir4	GUI- via Client PC	
CIVIX	10.1.1.11	Cmxadmin (SSH)	CC:ewir4	SSH- via clickable icon on map.	
DNA	10 1 1 12	Admin (GUI)	CC lowin4	GUI and SSH-via Client PC.	
DNAC	10.1.1.12	Maglev (SSH port 2222)	CC!ewir4		
ISE	10.1.1.13/.14	Admin	CClewir4	GUI and SSH- via Client PC.	
Windows 10 (Client PC)	10.1.1.16	cciecandidate	CC!ewir4	VNC- clickable icon on map.	

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Deploy, Operate and Optimize Guidelines

Before starting, please read the below guidelines:

- The network you will be deploying, operating and optimizing in this module will be similar, but not necessarily identical to the network designed in the previous module. All relevant information that is needed to successfully complete this module can be found in this module itself and overrides any information that was provided in the previous module
- Before you start, confirm that all devices in your rack are accessible. During the exam, if any device becomes locked or inaccessible, you must recover it.
- Note that some of the VMs may not be accessible from the start. If this is the case, you will be required to configure/troubleshoot some other part of the network before you can gain access to those devices.
- Note that there are global and item specific resources. Item specific resources are clearly mapped to the specific item in the resource name.
- Points are awarded for working configurations only. No partial scoring is provided. It is recommended that towards the end of the exam, you go back and test the functionality as per all question requirements.
- If you need clarification on any questions, or if you suspect that there might be an issue with your equipment or exam environment, contact the lab proctor as soon as possible.
- Item-level feedback can be provided at the question level. Feedback will be processed, but Cisco will not reach out to you to discuss any feedback provided. You will not be compensated for time you spend providing feedback.
- Access to select Cisco online documentation is available from your desktop.
- Upon finishing the lab exam, make sure that all the devices are accessible for the grading proctor by having them in EXEC mode and close the console windows. A device that is not accessible for grading cannot be marked and this may cause you to lose substantial points.
- You have 5 hours to complete this module.

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1.1: Introduction

Welcome to the final module of the MALEN scenario

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Please read all available documents within the Resources pane. They contain valuable information needed to complete this module.

Once you are ready to start with the first question, click on "Next Item", on the top navigation bar.

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1.2: Traditional L2/L3 Infrastructure

There have been reports of suboptimal path selection and connectivity issues at the Manchester warehouse.

Troubleshoot these issues to restore proper network operation.

- UKWH1-S3 (9200-3) should use the connection to UKWH1-S1 (3650-1) as its primary link, and the link towards UKWH1-S2 (3650-2) for the redundancy.
- UKWH1-S4 (9200-4) should use the connection to UKWH1-S2 (3650-2) as its primary link, and the link towards UKWH1-S1 (3650-1) for redundancy.
- Do not add any additional SVIs to complete this task.
- For all the switches located at UKWH1, traffic sources from their Loopback0 interface must be able to reach both Data Centers.
- For all the infrastructure equipment at this location, fault tolerance, and higher throughput should be achieved where possible.

3 Points

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1.2: Traditional L2/L3 Infrastructure

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chinese-dumps	chinese-dumps-UKWH1-S3-9200-3#sh spanning-tree vlan 31						
VLAN0031 Spanning ti Root ID	ree enabled p Priority Address Cost Port Hello Time	protocol rs 8223 aOec.f9ab. 4 15 (Gigabi 2 sec Ma	stp .eb00 itEth ax Ag) ernet1/0/ e 20 sec	/15) Forward Dela	y 15 sec	
Bridge ID	Priority Address Hello Time Aging Time	32799 (pr bce7,124d 2 sec Ma 300 sec	riori .d000 ax Ag	ty 32768 e 20 sec	sys-id-ext 31 Forward Dela) y 15 sec	
Interface	Role	Sts Cost		Prio.Nbr	Туре		
Gi1/0/13 Gi1/0/15	Altn Root	BLK 4 FWD 4		128.13 128.15	Р2р Р2р		

Solution:-



chinese-dumps-UKWH1-(config)#int gigabitEthernet 1/0/15	
chinese-dumps-UKWH1-(config-if)#spann	
chinese-dumps-UKWH1-(config-if)#spanning-tree vla	
chinese-dumps-UKWH1-(config-if)#spanning-tree vlan 31 co	ost 50
chinese-dumps-UKWH1-(config-if)#	
- Christian - Chri	

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Verification:-

chinese-dumps	s-UKWH1-S3-92	200-3#show spa	anning-trea	e vlan 31
VLAN0031 Spanning to Root ID	ree enabled p Priority Address Cost Port Hello Time	protocol rstp 8223 a0ec.f9ab.eb(8 13 (GigabitEt 2 sec Max f)0 :hernet1/0, Age 20 sec	/13) Forward Delay 15 sec
Bridge ID	Priority Address Hello Time Aging Time	32799 (prior bce7.124d.d0(2 sec Max F 300 sec	rity 32768)0 Age 20 sec	sys-id-ext 31) Forward Delay 15 sec
Interface	Role	Sts Cost	Prio.Nbr	Туре
Gi1/0/13 Gi1/0/15	Root Altn	FWD 4 BLK 50	128,13 128,15	Р2р Р2р
			S.	

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chinese-dumps-UKWH1-S4-9200-4#sh spann vla 32					
VLAN0032 Spanning ti Root ID	ree enabled p Priority Address Cost Port Hello Time	protocol rstp 8224 3c57.31fb.2800 4 15 (GigabitEth 2 sec Max Ag) mernet1/0, ge 20 sec	/15) Forward Delay 15 sec	
Bridge ID	Priority Address Hello Time Aging Time	32800 (priori 40b5.c161.0580 2 sec Max Ag 300 sec	.ty 32768) ;e 20 sec	sys-id-ext 32) Forward Delay 15 sec	
Interface	Role	Sts Cost	Prio.Nbr	Туре	
Gi1/0/13 Gi1/0/15	Desg Root	FWD 4 FWD 4	128.13 128.15	Р2р Р2р Р2р	

Solution:-



chinese-dumps-UKWH1-(config)# <u>interface_gigabitEthernet</u>
chinese-dumps-UKWH1-(config)#interface gigabitEthernet 1/0/15
chinese-dumps-UKWH1-(config-if)#spann
chinese-dumps-UKWH1-(config-if)#spanning-tree vlan 32 cos
chinese-dumps-UKWH1-(config-if)# <u>spanning-tree vlan 32 cost 50</u>

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Verification:-

chinese-dump	s-UKWH1-S3-92	200-3#show	spanning-trea	e vlan 31
VLAN0031 Spanning t Root ID	ree enabled p Priority Address Cost Port Hello Time	protocol r 8223 aOec.f9ab 8 13 (Gigab 2 sec M	rstp),eb00)itEthernet1/0, lax Age 20 sec	/13) Forward Delay 15 sec
Bridge ID	Priority Address Hello Time Aging Time	32799 (p bce7,124d 2 sec M 300 sec	riority 32768 1.d000 Max Age 20 sec	sys-id-ext 31) Forward Delay 15 sec
Interface	Role	Sts Cost	Prio.Nbr	Туре
Gi1/0/13 Gi1/0/15	Root Altn	FWD 4 BLK 50	128,13 128,15	Р2р Р2р

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On UKWH1-S3-9300-1

chinese-dumps-UKWH1-(config)#	
chinese-dumps-UKWH1-(config)#ip	routing
chinese-dumps-UKWH1-(config)#ip	route 0.0.0.0 0.0.0.0 10.10.31.1
chinese-dumps-UKWH1-(config)#	

On UKWH1-S4-9300-4

chinese-dumps-UKWH1-(config)#	
chinese-dumps-UKWH1-(config)#ip	routing
chinese-dumps-UKWH1-(config)#ip	route 0.0.0.0 0.0.0.0 10.10.32.2
chinese-dumps-UKWH1-(config)#	

On UKWH1-S1-3650-1

Chinese-Dumps-UKWH1-(config)#				
Chinese-Dumps-UKWH1-(config)#				
Chinese-Dumps-UKWH1-(config)#ip	route	10.10.127.2	255.255.255.255	10.10.12.2
Chinese-Dumps-UKWH1-(config)#ip	route	10.10.127.3	255.255.255.255	10.10.31.3
Chinese-Dumps-UKWH1-(config)#ip	route	10.10.127.4	255.255.255.255	10.10.32.4
Chinese-Dumps-UKWH1-(config)#				



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Verification:-

On UKWH1-S1-3650-1

Chinese-Dumps-UKWH1-S1-3650-1# Chinese-Dumps-UKWH1-S1-3650-1#ping 10.1.1.12 source 10.10.127.1 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 10.1.1.12, timeout is 2 seconds: Packet sent with a source address of 10.10.127.1 !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/2 ms Chinese-Dumps-UKWH1-S1-3650-1#

On UKWH1-S2-3650-2



Chinese-Dumps-UKWH1-S2-3650-2# Chinese-Dumps-UKWH1-S2-3650-2#ping 10.1.1.12 source 10.10.127.2 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 10.1.1.12, timeout is 2 seconds: Packet sent with a source address of 10.10.127.2 !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/3 ms Chinese-Dumps-UKWH1-S2-3650-2# Chinese-Dumps-UKWH1-S2-3650-2#

On UKWH1-S4-9200-3



chinese-dumps-UKWH1-S3-9200-3# chinese-dumps-UKWH1-S3-9200-3# chinese-dumps-UKWH1-S3-9200-3#ping 10.1.1.12 source 10.10.127.3 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 10.1.1.12, timeout is 2 seconds: Packet sent with a source address of 10.10.127.3 !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/4 ms chinese-dumps-UKWH1-S3-9200-3#

On UKWH1-S4-9200-4

chinese-dumps-UKWH1-S4-9200-4# chinese-dumps-UKWH1-S4-9200-4# chinese-dumps-UKWH1-S4-9200-4#ping 10.1.1.12 source 10.10.127.4 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 10.1.1.12, timeout is 2 seconds: Packet sent with a source address of 10.10.127.4 !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms chinese-dumps-UKWH1-S4-9200-4#



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On UKWH1-W1

(Cisco Controller) config>lag enable

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Enabling LAG will map your current interfaces setting to LAG interface, All dynamic AP Manager interfaces and Untagged interfaces will be deleted All WLANs will be disabled and mapped to Mgmt interface Max speed of ports 1–5 will be set to 1 Gbps !!! You MUST reboot the system after updating the LAG config. !!! !!! After Applying the LAG config, you would still need to !!! !!! reboot the system and reconfigure LAG to revert back !!! Are you sure you want to continue? (y/n) y

You MUST now save config and reset the system.

(Cisco Controller) >save config Are you sure you want to save? (y/n) y On UKWH1-W2 (Cisco Controller) config>lag enable Enabling LAG will map your current interfaces setting to LAG interface, All dynamic AP Manager interfaces and Untagged interfaces will be deleted All WLANs will be disabled and mapped to Mgmt interface Max speed of ports 1-5 will be set to 1 Gbps !!! You MUST reboot the system after updating the LAG config. !!! !!! After Applying the LAG config, you would still need to !!! !!! After Applying the LAG configure LAG to revert back !!! Are you sure you want to continue? (y/n) y You MUST now save config and reset the system.

(Cisco Controller) >save config Are you sure you want to save? (y/n) y

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On UKWH1-S1-3650

Chinese-Dumps-UKWH1-(config)# Chinese-Dumps-UKWH1-(config)#int range g1/0/11-12 Chinese-Dumps-UKWH1-(config-if-range)#channel-group 10 mode on Creating a port-channel interface Port-channel 10

On UKWH1-S2-3650

Chinese-Dumps-UKWH1-(config)# Chinese-Dumps-UKWH1-(config)#int range g1/0/11-12 Chinese-Dumps-UKWH1-(config-if-range)#channel-group 10 mode on Creating a port-channel interface Port-channel 10

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Verification:-

Chinese-Dumps-UKWH1-S1-3650-1%show etherchannel summary Flags: D = down P = bundled in port-channel I = stand-alone s = suspended H = Hot-standby (LACP only) R = Layer3 S = Layer2 U = in use f = failed to allocate aggregator M = not in use, minimum links not met u = unsuitable for bundling w = waiting to be aggregated d = default port A = formed by Auto LAG Number of channel_groups in use: 1 Number of channel_protocol Ports 10 Po10(SU) = Gi1/0/11(P) Gi1/0/12(s) Chinese-Dumps-UKWH1-S1-3650-14

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Verification:-

Chinese-Dumps-UKWH1-S2-3650-2#sh Flags: D - down P - bund I - stand-alone s - susp H - Hot-standby (LACP or R - Layer3 S - Laye U - in use f - fail	n etherchannel summary Aled in port-channel Dended hly) er2 .ed to allocate aggregator
M - not in use, minimum u - unsuitable for bundl ω - waiting to be aggreg d - default port	links not met ing gated
A - formed by Auto LAG	
Number of channel-groups in use: Number of aggregators:	; 1 1
Group Port-channel Protocol	Ports
10 Po10(SU) -	Gi1/0/11(P) Gi1/0/12(P)

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