# 交换路由无线网关设备配置

# 答题卡（样卷2）

要求：使用下面指令查看运行状态，使用FSCapture截图软件截图，将结果截图插入到文档中；

备注1：答题卡中如果整个大题没有截图则整个大题不得分，未使用抓图工具截图或**截图不完整不清晰**，则不给分。

备注2：总分350分

## VSU（30分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| VSU#show switch virtual | 2.5 |
|  |  |
| VSU#show switch virtual dual-active bfd | 2.5 |
|  |  |
| VSU#show ssh （终端远程SSH登录S1设备后收集信息） | 2.5 |
|  |  |
| VSU#show run | include snmp | 5 |
|  |  |
| VSU#show run interface gigabitEthernet 1/0/20（查看终端接口VLAN、生成树、DHCP相关配置） | 5 |
|  |  |
| VSU#show ip dhcp snooping binding （AP1及有线VLAN110终端获取地址后收集信息） | 2.5 |
|  |  |
| tracert 194.3.60.254（有线VLAN110终端获取地址后收集信息） | 2.5 |
| 通过最多 30 个跃点跟踪到 194.3.60.254 的路由 | 标黄处完全匹配 |
| VSU#show cpu-protect type arp（查看CPP配置信息） | 2.5 |
|  |  |
| Ipconfig/all（PC连接VLAN110接口获取IPV4与IPV6地址收集信息） | 5 |
| 以太网适配器 以太网 2: |  |

## S3（25分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| S3#show vrrp brief | 2.5 |
|  |  |
| S3#show ipv6 vrrp brief | 2.5 |
|  |  |
| S3#sho interface aggregateport 1 | include bndl | 2.5 |
|  |  |
| S3#show ip ospf neighbor | 2.5 |
|  |  |
| S3#show ipv6 ospf neighbor | 2.5 |
|  |  |
| S3#show ip route ospf | include E1 | 5 |
|  |  |
| S3#show ipv6 route | include E1 | 2.5 |
|  |  |
| S3#traceroute 194.2.10.254 source 192.2.90.252 | 2.5 |
|  |  |
| S3#traceroute ipv6 2003:194:2:10::254 source 2001:192:2:90::254 | 2.5 |
|  |  |

## S4（35分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| S4#show ip route ospf | include E1 | 5 |
|  |  |
| S4#show ipv6 vrrp brief | 5 |
|  |  |
| S4#show vrrp brief | 5 |
|  |  |
| S4#show ip ospf interface vlan 60 | 5 |
|  |  |
| S4#traceroute 194.3.60.254 source 192.3.60.253 | 5 |
|  |  |
| S4#traceroute 201.1.1.1 source 192.3.60.253 | 5 |
|  |  |
| S4#traceroute 2003:194:3:60::254 source 2001:192:3:60::254 | 5 |
|  |  |

## S1（35分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| S1#show ip ospf neighbor | 5 |
|  |  |
| S1#show ipv6 ospf neighbor | 4 |
|  |  |
| S1#show ip route bgp | 10 |
|  |  |
| S1#show ip route | include 192. | 4 |
|  |  |
| S1#show ip bgp 194.2.10.0 | 4 |
|  |  |
| S1#show ip bgp 194.3.60.0 | 4 |
|  |  |
| S1#show ipv6 route | include E1 | 4 |
|  |  |

## S2（40分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| S2#show ip route bgp | 10 |
|  |  |
| S2#show ip route | include 192. | 10 |
|  |  |
| S2#show ip bgp 194.2.10.0 | 10 |
|  |  |
| S2#show ip route static | 2.5 |
|  |  |
| S2#show ipv6 route | include 192 | 5 |
|  |  |
| S2#show ipv6 route | include E1 | 2.5 |
|  |  |

## R1（30分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| R1#show ip bgp summary | 5 |
|  |  |
| R1#show ip route bgp | 15 |
|  |  |
| R1#show ipv6 route | include 192 | 5 |
|  |  |
| R1#show ipv6 route static | 5 |
|  |  |

## R2（10）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| R2#show ip bgp summary | 5 |
|  |  |
| R2#show ip route bgp | 15 |
|  |  |
| R2#show ipv6 route | include 192 | 5 |
|  |  |
| R2#show ipv6 route static | 5 |
|  |  |

## R3（35分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| R3#show ip route bgp | 5 |
|  |  |
| R3#show ip route static | 5 |
|  |  |
| R3#show crypto isakmp sa | 2.5 |
|  |  |
| R3#show access-lists 103 | 2.5 |
|  |  |
| R3#traceroute 195.1.60.254 source 194.3.60.254 | 2.5 |
|  |  |
| R3#traceroute 192.2.90.254 source 194.2.10.254 | 2.5 |
|  |  |
| R3#traceroute 192.3.60.254 source 194.3.60.254 | 2.5 |
|  |  |
| R3#ping 11.1.0.5 source 194.3.50.254 | 2.5 |
|  |  |
| R3#traceroute ipv6 2001:192:2:90::254 source 2003:194:2:10::254 | 2.5 |
|  |  |
| R3#traceroute ipv6 2001:192:3:60::254 source 2003:194:3:60::254 | 2.5 |
|  |  |
| R3#traceroute ipv6 2001:192:2:90::254 source 2003:194:2:10::254（拔掉R2 fa1/0接口后收集信息） | 2.5 |
|  |  |
| R3#traceroute ipv6 2001:192:3:60::254 source 2003:194:3:60::254（拔掉R2 fa1/0接口后收集信息） | 2.5 |
|  |  |

## S7（10）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| S7#show version（版本升级后收集信息） | 5 |
|  |  |
| S7#show interface description | include Con\_To（查看设备端口描述及主机命名信息） | 5 |
|  |  |

## AC1（15）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| AC1#show capwap state | 2.5分 |
|  |  |
| AC1#show ac-config client （无线用户关联AP1 SSID后收取信息） | 2.5分 |
|  |  |
| AC1#show ac-config client （无线用户关联AP2 WLANID为2 广播的SSID后收取信息） | 2.5分 |
|  |  |
| AC1#show ac-config client （无线用户关联AP2 WLANID为3 广播的SSID后收取信息） | 2.5分 |
|  |  |
| AC1#show wlan hot-backup 11.1.0.6 | 5 |
|  |  |

## AC2（15分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| AC2#show wlan-config cb 2 | 2.5 |
|  |  |
| VAC#show ap-config running **AP1名称**（查看AP1的配置信息） | 5 |
|  |  |
| AC2#show wlan hot-backup 11.1.0.5 | 2.5 |
|  |  |
| AC2#show spanning-tree summary | be MST 2 vlans map : 60, 100 | 5 |
|  |  |

## AP3（20分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| AP3#show web-auth user all（无线终端关联FAT AP使用fatuser认证成功后收集） | 5 |
|  |  |
| AP3#show dot11 rate-set | include Support（查看低速率优化配置） | 5 |
|  |  |
| AP3#traceroute 194.3.60.254 source 195.1.60.254 | 5 |
|  |  |
| AP3#show version | 5 |
|  |  |

## EG1（25分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| EG1#show ip nat translations | include icmp（EG1下局域网无线终端连接AP1的SSID后执行ping 201.1.1.1 -t命令时收集信息） | 5 |
|  |  |
| EG1#show run | include 201.1.1.5 | 5 |
|  |  |
| EG1#show ip nat translations | include 11.1.0.1（EG1下局域网无线终端连接AP1的SSID后执行 telnet 201.1.1.6 58888命令时收集信息） | 5 |
|  |  |
| EG1#show web-auth user all（user1账户认证成功后收集信息） | 5 |
|  |  |
| EG1#show web-auth direct-host （查看免认证IP，注意不是IP范围） | 5 |
|  |  |

## EG2（25分）

|  |  |
| --- | --- |
| 评分要点 | 分值 |
| EG2#show ip nat translations | include icmp （EG2下局域网无线终端连接AP3的SSID后执行ping 203.1.1.1 -t命令时收集信息） | 2.5 |
|  |  |
| EG2#show crypto isakmp sa | 2.5 |
|  |  |
| EG2#show access-lists 103 | 2.5 |
|  |  |
| EG2#show crypto ipsec sa | include #pkts（EG2、R3 IPsec隧道建立后收集） | 2.5 |
|  |  |
| EG2#show run | include channel-group WEB | 2.5 |
|  |  |
| EG2#show content-policy | 10 |
|  |  |
| tracert 194.3.60.254（无线终端连接AP3的SSID认证后收集信息） | 2.5 |
|  |  |

**无线网络勘测设计**

**答题卡**

要求：使用FSCapture截图软件进行截图，将输入结果截图插入到文档中。

备注1：在答题卡中，如果整个大题没有截图，则整个大题不得分；未使用抓图工具截图的或**截图不完整不清晰**，则不得分。

备注2：地勘部分满分50分。

### 无线地勘

|  |
| --- |
| 1、AP点位规划设计 |
| 此处插入AP点位设计图 |
| 2、无线热图 |
| 此处插入无线热图 |
| 3、无线设备清单和价格 |
| 无线设备清单和价格   |  |  |  |  | | --- | --- | --- | --- | | **网络设备型号** | **单价** | **数量** | **总价** | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | **总价** | | |  | |

### 网络系统集成工勘

|  |
| --- |
| 1、无线网络水平布线图 |
| 此处插入无线网络水平布线图 |
| 2、机柜安装示意图 |
| 此处插入机柜安装示意图 |
| 3、网络配线架标签表 |
| 网络配线架标签表   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |  |  |  |  |  |  |  |  |  |  |  |  | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |  |  |  |  |  |  |  |  |  |  |  |  | |
| 4、系统集成物料清单 |
| **系统集成物料清单**   |  |  |  | | --- | --- | --- | | **物料名称** | **单 位** | **数 量** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |