RG-S2910V2-L ৴ ϱ ʹO ū

S29V2L_RGOS 11.4(1)B74P11 WEB ৲ ת ė q

ή ” ○ ″ V1.0

Ą ” ѽ Ī 2022-12-27

copyright © 2022 ح à ﻝ ٨

ƈ

ð ⊀ ļ̣ u

ė q ﮓ ᵀ ï ˚ Ķ ^ ⊀ ƈ

- ⊿ ⊼ Ṫ ⅄ ų̇
- Ḥ ò ẍ Ķ ^
- ⊿ ⊼ ⅂ ת ^

ð̃ ŭ ά ĭ

- ƈ à ⊿ ⊼ ḥ Ά ⊿ 1 χ _____
- ƈ à ⊿ ⊼ ḥ Ά ⊿ 1 Ȯ ח ﬠ Ḫ Ỳ ν ę χ _____
- ƈ à ⊿ ⊼ 7*24h ΰ ΐ ¡ Ȯ ₺ ɔ χ _____
- ƈ à 7*24d:J 46.82 3Ȯ.2.32 3 χ 4.08e16 1 0 0 1 TTJ (cn0 Tw ( )Tj EMC 22 29 -0.00/LBody <</ct BInlineShape6 >>BDC 8 0
- ƈ à ⊿ ⊼ φ ᵍ Ȯ ח Ṫ υ – – ŋ ƈ Ȯ χ

2. ᴾ ʏ ȏ

₩ ф ᵱ ᵀ ʏ ᵱ ´ ‰Ő ˝ ˜ ƥ ¨ḢĂ ѳ ʏ ʌ Ẓ Ỉ ˎ ˛ ├ Ẏ ş Ά ı ف P‰Ő Ẏ Θ ḅ ï χ

ɥ Ç ∑ ɾ Ḥ Ï ˜ ɲ ɔɯ ɾ
 ʜ Ḥ ɾ Ḥ Ï ˜ ˈ u ɾ
 ɲ ᵉ ѿ ɻ ɻ ɾ Ḥ Ï Ғ ᴰ Ç u ɾ
˛ ʒ / ˝ ɲ ᵉ ˛ ʒ ˝ ɾ

3. Ł ̋Ȣ

ė q ʌ ī ˜ ⊞ Ṁ ʒ Ụ ε ḅ ғ β ʒ ᴺ ѡ ك ʏ ɻ Æ ɻ ʒ ʒ ɪ ᵑ ˭ ʏ ζ ʞ ě v ă ı ʊ ɥ ʒ Ụ ت Ȣ ḥ ڳ Æ ŧ ⊞ ғ β v ʬ ´

1 ϱ ̍O ū Eweb ګ ۱

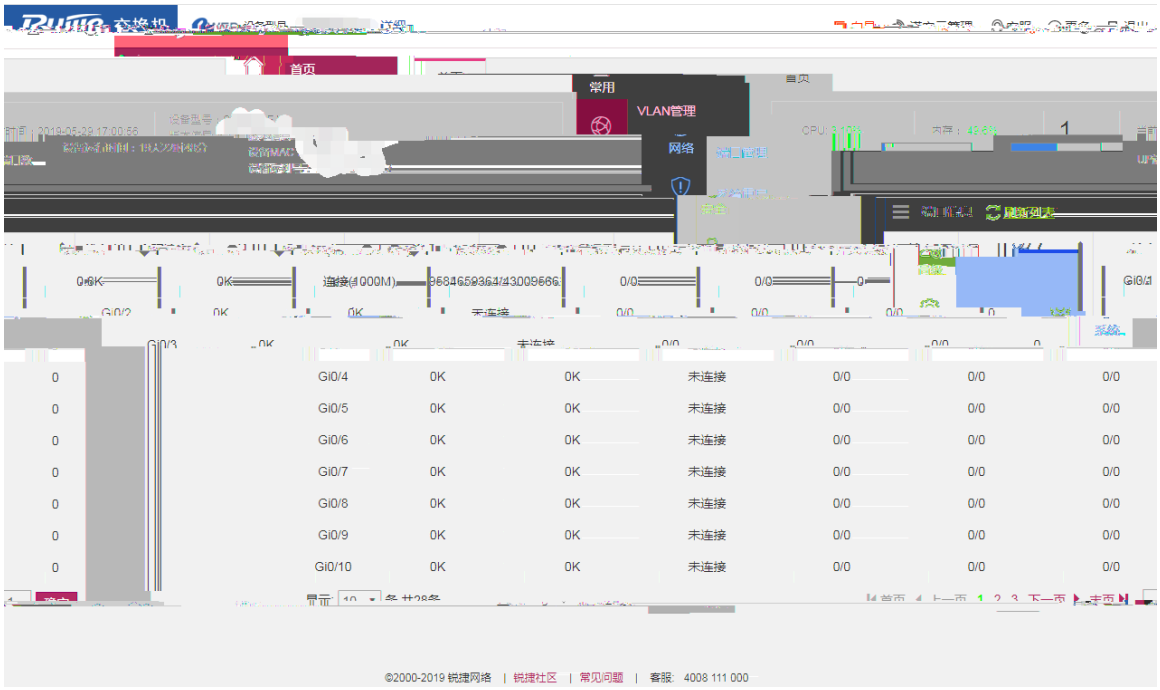
1.1 ↑ ټ

ɾ ̈AÆɾ ⊧ η ʜ ε ḅ IE ζ ևւ ڂ Γ ̈Ω WEB ۱ ת ۷ ۱ Γ ת Γ ̈Ω

WEB ۱ ת γ ù WEB ̀O ח ʜ ⊐ WEB ị ̈A ۴ ђ ̂ WEB ̀O ח ʜ ؤ ă ϱ ֆ ᵾ i ı ɾ Γ ì ώ ⊐ ∫ ת ị ̈A ۴ ۱ Γ ⅷ ت ∂ ε ح
ח WEB ă ţ ã ̈E ◍ Ɛ ᵘ ռ ت ∂ ζ ı Ẋ ̈H ∫ ת ل ' ف ɨ ۱ ị ̈A ۴ ı

ɲ - ă ı ã ̦ Й ɣ ª Ṅ ؘ ؚ WEB ٦ ת ڎ ˜ ˛ ı ɲ - ă ı ª Ṅ ؘ ؚ WEB ٦ ת ڎ ˜ ˛ ı ḅ ï ɡ χ

ɡ 1-3 WEB ٦ ת Ẉ ʲ ڎ ˜ ˛



ĩ ɲ Eweb ב ĭ Ņ Eweb ņ ɾ

1.3 Eweb ﺏ ﻝ ₱ ﺏ ﻝ

ɟ ″↑ ỗ

↘ ʃ Ė ↑ ʁ ᴘ ﺏ ỏ z ˥ ج	
g‚‰/˜Yټ	ب ″

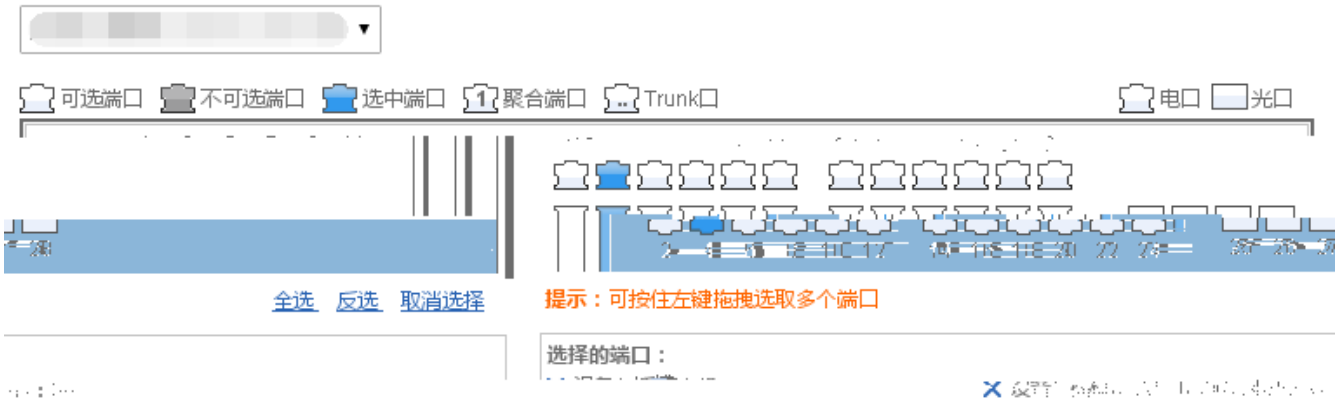
- ₌—ƙ ﻝ

ṫ i ưꋬï ℸl ‴ ´˜ Ẹ˙ ₱ ᵻꋬჭ ∧ ɹ ıᴀ ჯ ५ Æ ₌—´˜ Ẹ˙ Ǯ ᴀꋬợ ɹꋬ५ Æ˜ Ỿ g, ı ᵽ` ợRsï ℸl↑ ᵻ Ꞷ´ Ωợ ɹ ₌—

- ₌—"ḢĂ

ᵻ Ꞷ ɳ ص ش‰ ᵽ` ₌— i ꋬ<५ Æ>ă ă ŏ ∪ ش‰ Ǯ ^ ᴀ<५ Æ> ıÆ<५ Æ>ψ ă<Ǯ ᴀ ५ Æ> ıWḾ Ǯ ᴀꋬ<५ Æ>ف Φ ₱ ɹ ı ḅ ▌ ɾ ५ Æ ۍ ك ı ५ Æ ۑ ü Ꞷ ȝ ५ Æ ں ھ ५

- ₱ ᵻ ₌—Ǯ ᴀ ५ Æ g,



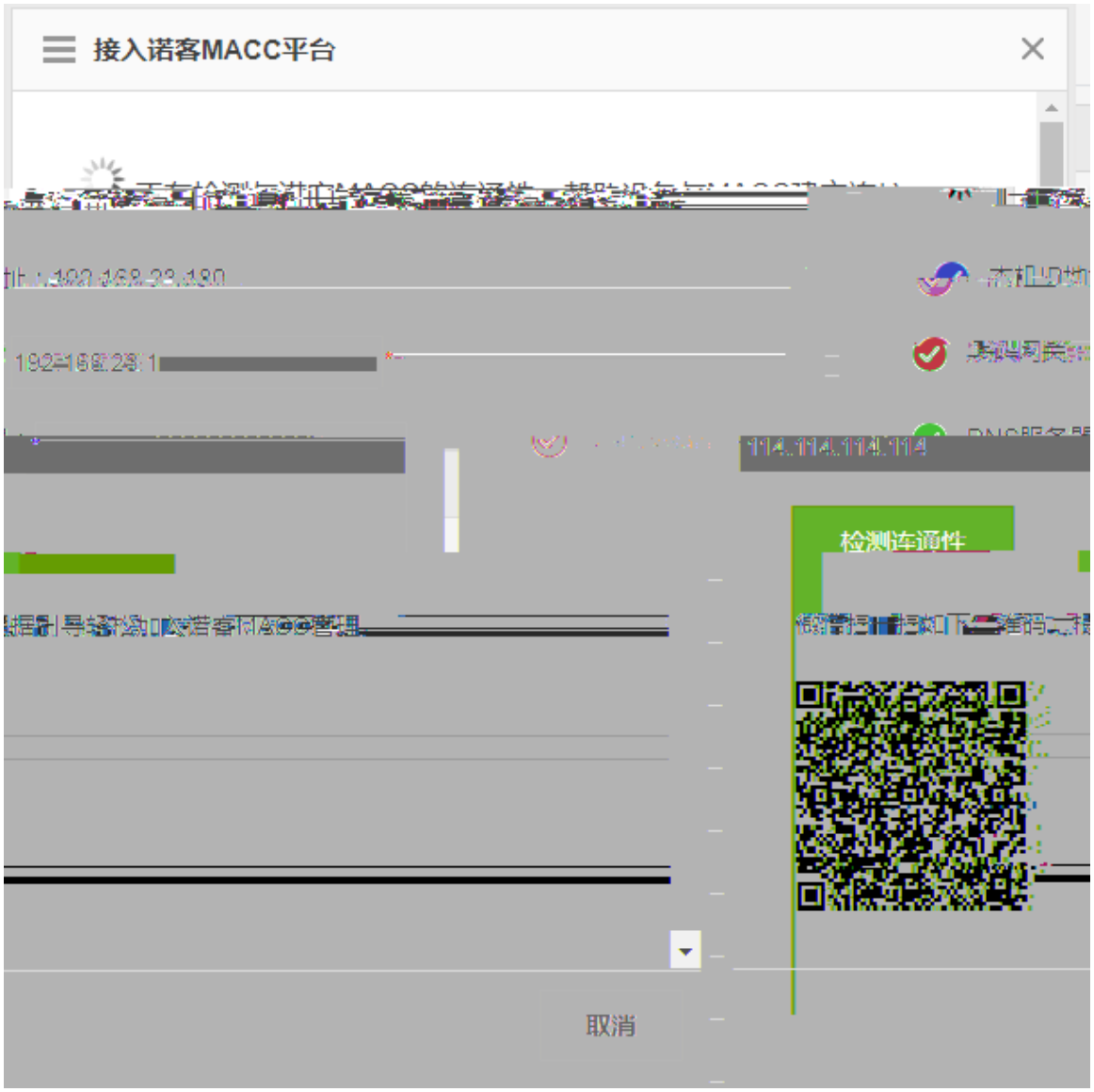
ה ﻝ ◕

⁞ Ω WEB ๅ ₌ ṫ ژꋬ ﻝ o ᴅ ″ ı ڎ ɻ˙ ḅ ï ı ẗ ﺏﻝ χ

ı ĩ ≠ ớ	Ă ɾ
ث ‴	ᵻ Ꞷ¶ ˜ ५ Æ ȝ Ụ ȝ ₱ ᵻ ₦
VLAN ٦ ת	ᵻ Ꞷ ₱ ﻝ VLAN ⁼ Trunk Æ
५ Æ ٦ ת	ᵻ Ꞷ Ḿ ५ Æ ف Φ ᵍ ₱ ﻝ ı Ꞷ ȝ ₱ ﻝ ५ Æ ĩ ᵀ ५ Æ ۑ ü ५ Æ ں ھ
POE ₱ ﻝ	ᵻ Ꞷ ₱ ﻝ ২ ṕ POE ⁼ ५ Æ POE ꋬɲ ķ
ﻝ ﻝ ﭖ ᵏ	ﭖ ᵏ ₱ ᵻ
MAC ş ẋ	ᵻ Ꞷ ف Φ ̃ ő ş ẋ ₱ ﻝ ⁼ ص ۔ ş ẋ ₱ ﻝ
ث ᵻ ₱ ﻝ	ᵻ Ꞷ ₱ ﻝ ث ᵻ
ᵻ ă ‴ в ɲ	ᵻ Ꞷ ₱ ﻝ ᵻ ă ‴ ২ ṕ ᵍ ȝ Ụ ı Ꞷ ȝ ᵻ ă ‴ ५ Æ ₱ ﻝ RLDP ₱ ﻝ
IGMP ₱ ﻝ	ᵻ Ꞷ Ḿ IGMP Snooping ف Φ ₱ ﻝ
DHCP ᴀ ﻝ	ᵻ Ꞷ ₱ ﻝ DHCP ᴀ ﻝ
i ﻝ ɳ ᵍ ɲ -	ᵻ Ꞷ ف Φ ᵘ ﻝ web ɲ - ȝ ב ﻝ ﺏﻝ
DHCP Snooping	ᵻ Ꞷ ₱ ﻝ DHCP Snooping
گ ARP ۏ`	ᵻ Ꞷ ₱ ﻝ گ ﻝ ʜ ARP ₱ ح ARP ₅¶ ₱ ﻝ DAI ₱ ﻝ ȝ ARP ´ °
IP Source Guard	ᵻ Ꞷ Ḿ ì Æ ₱ ﻝ ȝ ɾ Ä ﻝ ħ
५ Æ Ḡ ২	ᵻ Ꞷ Ḿ ५ Æ Ḡ ২ ف Φ ᵍ ₱ ﻝ ȝ Ḡ ২ ﻝ ħ

1.3.2 h ﮒ ﻧ ₱

g, 1-5 ج ﮒ ٦ت



بﻟ IP ѫת ﻝнз DNS ˋOת ʜ ɑ ı ا Ɯ ℘ˋ ɒ ₅ ﻟ ف ڽ ó ɒ ¶ ~ ₱ ﻍ ĩ ɛ ا Ɯ ف i ج ﮒ ٦ت ı ف ڽ ɑ "E ″Ê ﻝ Ṅ ₱ ﻍ ɾ ؟ ج ﮒ MACC ٦تW ﺝ

1.3.3 ẁ ₩

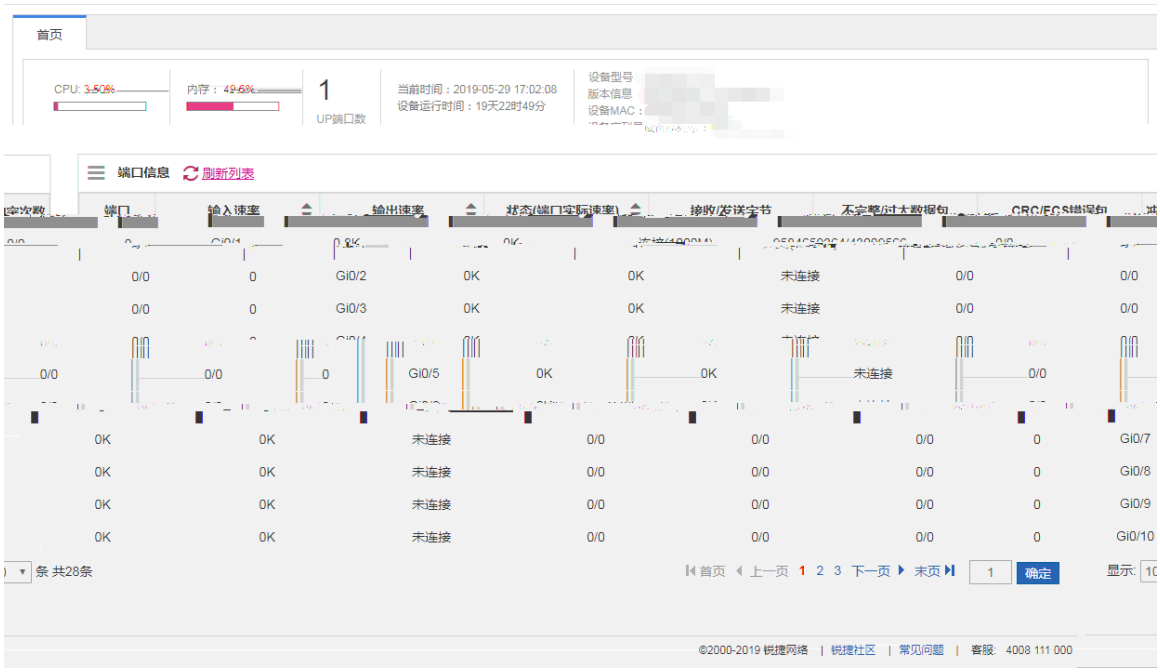
ڽص ٦ o ɒ ɒẂ ɾ ɒı ا Ɯ ف ؟ˆ ٦ o ɒ ɣ g ث ّ VLAN ٦ت ٦ Æ ٦ت POE ₱ ﺝ ﻝ ﻝ پ ᵏ

1.3.3.1 ﺭ گ

ڽصﻝ ﻝ ث ّ ı ا Ɯ ˜ ˙ ₱ ﻍ بﻟ ʒ Ụ ٦ Æ g ʒ Ụ ʒ ٦ Æ ﻝ ɯ ɲ ķ

ﻯ ﻝ ث ّ ّ ِ ḅ ï g, χ

g, 1-6 ﻯ ﻝ ث ّ



ش‰ ﻯ ˙ ˜ ^ ﻍ ﻭ ﻫ ﺍ VSU ﻯ ﺍ ï ˡ ℚ˜ Ꞇ Ꮒ ₱ ⁞ ⅏ ʒ Ụ

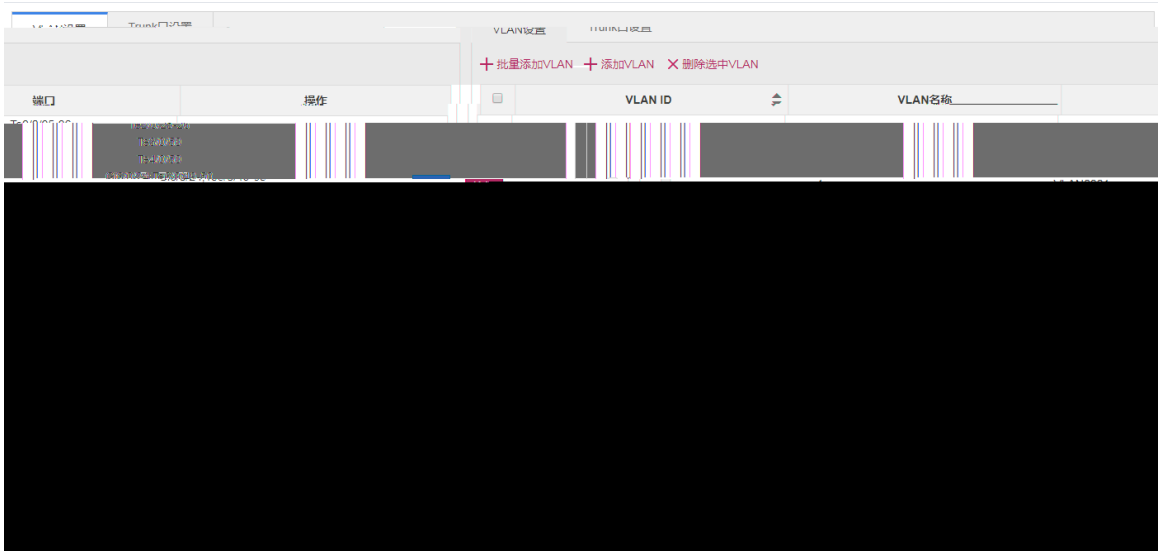
1.3.3.2 VLAN ﻯ Ᵽ

VLAN ﻝ ת ّ ِ ﻱ ᵍ ɒ VLAN ₱ ﻝ ɓ ⁼ ɒ Trunk Æ ₱ ﻝ ɓ ɬ ₥ ˙

↘ VLAN ₱ ﻝ

VLAN ₰ ﻝ ₪ ″ ₌ ḅ ï χ

ℊ 1-7 VLAN ₰ ﻝ



- ▌ ɪ VLAN

₰ ﻝ VLAN ɪ ọ ɛ ﻝ ˚ VLAN ID ɪ ƫ Ƕ ʒ Ụ ˡ Ǯ ɪ ℮ ` ɒ Ḧ ă ف ﻝ ɓ ώ ~ ɒ ₰ ﻝ ă ɪ ɓ ª ɪ ɦ Ǐ ~ ℊ VLAN ˚ ´ ₳

- ﻝ ŋ VLAN

℮ ` ɒ VLAN ˚ ´ ɓ ѡ ª ˚ ″Ḥ Ă ″ ï ₪ < ﻝ ŋ > ℊ ‰ ɪ ″ ₌ ɦ Ǐ ~ Í VLAN ₪ ʒ Ụ ɪ Ḿ ʒ Ụ ف Φ ﻝ ŋ ª ɪ ℮ ` < Ḣ ă ف ﻝ > ώ ~ ɒ ₰ ﻝ ă ɪ ɓ o ˡ

- ¸ ბ VLAN

1 ζ ℊ ɒ VLAN ˚ ´ ɓ ₳ Ǯ ″ Ο ^ † ɻ ę ɪ ℮ ` ɒ ¸ ბ Ǯ ₳ VLAN ɓ ȟ ¸ ¸ ბ ″ Ω Ƶ Ω

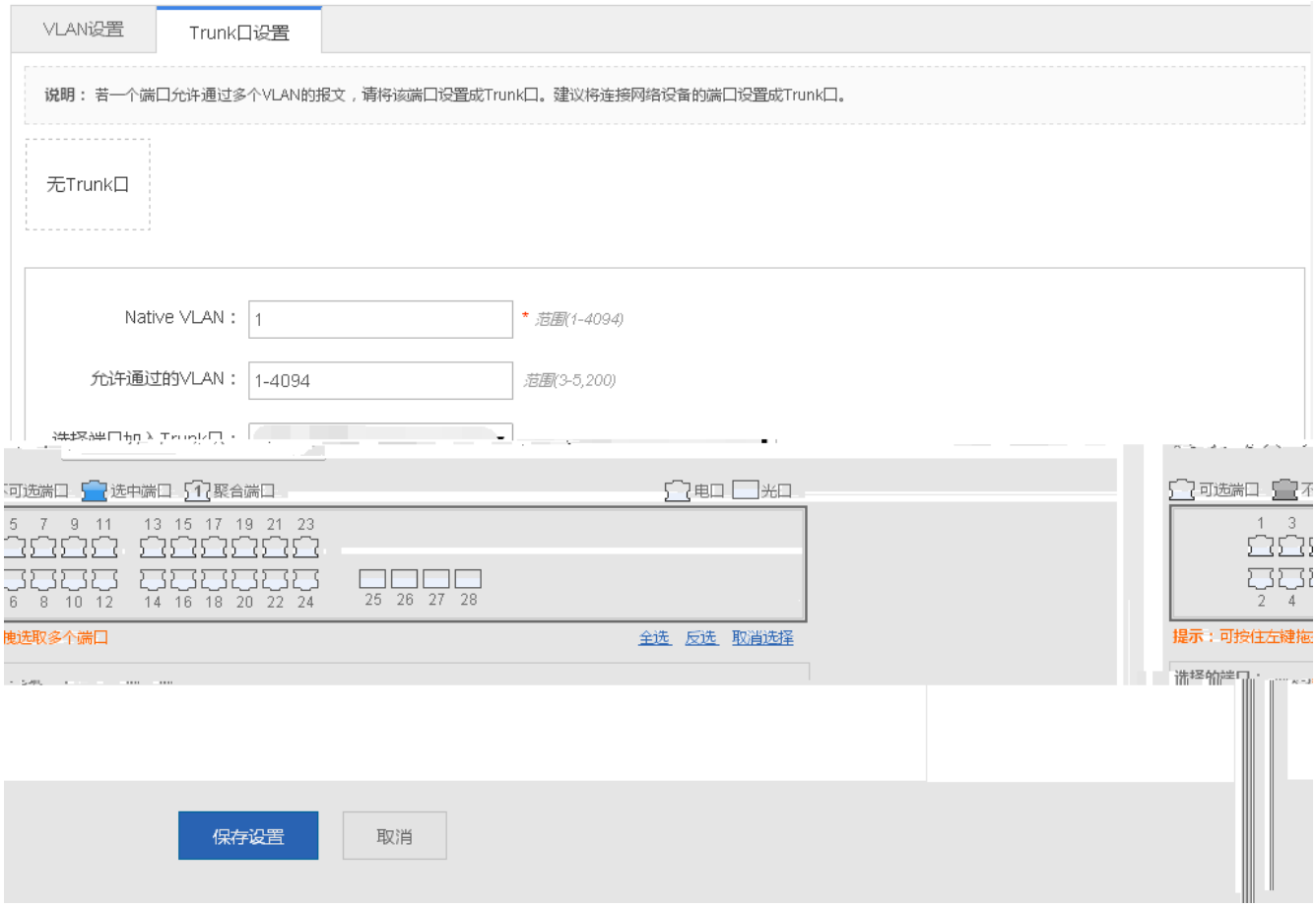
2 ζ ℮ ` ɒ VLAN ˚ ´ ɓ ѡ ª ˚ ″Ḥ Ă ″ ï ₪ < ¸ ბ > ℊ ‰ ɪ ώ ~ ɒ . ḧ ¸ ბ Ǯ ₳ ₪ vlan ɓ ı ℮ ` . ḧ ώ ~ ɒ ¸ ბ ă ɪ ɓ ı Ḣ ă ¸ ბ VLAN 1 ĩ ѫ ռ VLAN ɲ | ¸ ბ

VLAN1 VLAN Ï ˜ ɵ ¦ ˡ Ï ∩ ɾ

↘ Trunk ᴬ ₰ ∕

Trunk Æ ₰ ﻝ ₪ ″ ₌ ḅ ï χ

ℊ 1-8 Trunk Æ ₰ ﻝ



- ▌ ɪ Trunk Æ

ǰ ʌ ˏ — ㄟ Æ ɪ ˩ ˚ Native Vlan ⁼ ʁı ɒ ɳ ص VLAN(ḅ 3-5,8,10) ɪ ᵽ ` ɒ ʒ è ֆ ɹ ɓ ώ˜ ɒ ֆ ɹ ă ɪ ɓ Ḣ ă ▌ ɪ ″Ḥ Ă ɪ ▌ ɪ VLAN Ꮒ Ǐ ˜ ɒ Trunk Æ ˚ ´ ʌ

- ㄟ ɜ̆ Trunk Æ

ɒ ɒ Trunk Æ ˚ ´ ɓ ʌ ᵽ ` • ʌ Trunk Æ ɪ ʷ ˏ Ꮒ Ǐ ˜ Í Trunk Æ ʒ Ụ ɪ Ḿ ʒ Ụ ؾ Φ ㄟ ɜ̆ Ӣ ώ ª ɪ ᵽ ` < ㄟ ɜ̆ ֆ ɹ > ώ˜ ɒ ֆ ɹ ă ɪ ɓ o ˡ

- ˍ ბ Trunk Æ

ɒ ɒ Trunk Æ ˚ ´ ɓ ʌ ش ‰ ٧ ₆ • ʌ Trunk Æ ɨ ɪ ǰ ʌ < ˍ ბ > g ‰ ɪ ώ˜ ɒ˙ ḧ ɻ˙ ბ Í Trunk Æ ó ɒ ɪ ᵽ ` . ḧ ώ˜ ɒ˙ ბ ă ɪ ɒ ɪ Ḣ ă˙ ბ

- ḧ ɻ˙ ბ Trunk Æ

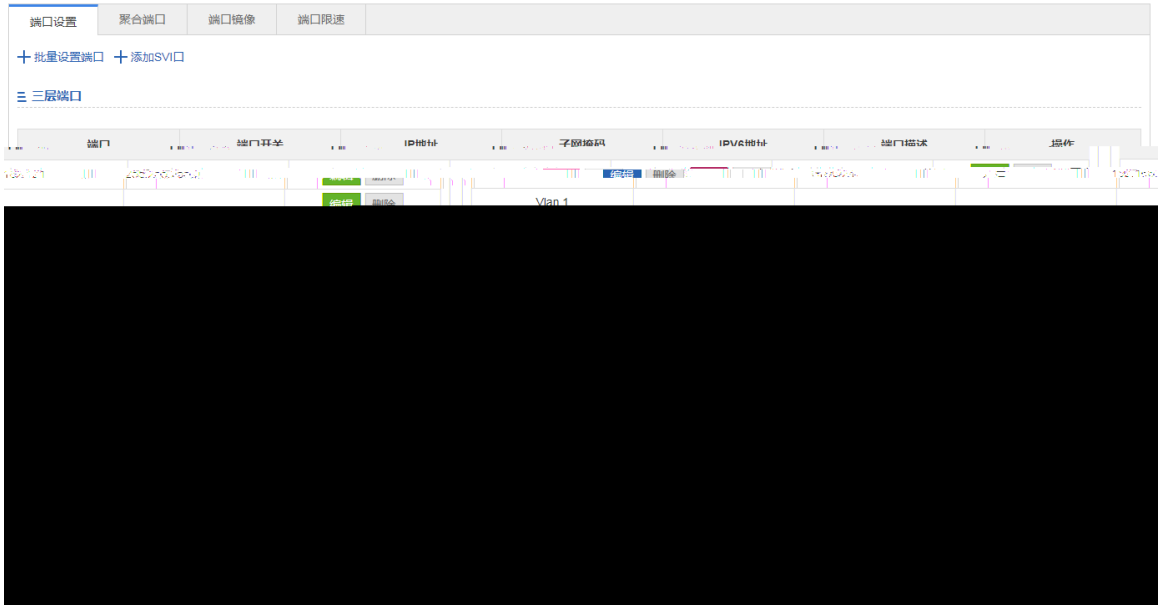
ɒ ɒ Trunk Æ ˚ ´ ɓ ʌ ǰ ″O ɻ˙ ბ Trunk Æ ɪ ǰ ʌ < ḧ ɻ˙ ბ > g ‰ ɪ ώ˜ ɒ˙ ḧ ɻ˙ ბ Trunk Æ ó ɒ ɪ ᵽ ` . ḧ ώ˜ ɒ˙ ბ ă ɪ ɒ ɪ Ḣ ă˙ ბ

1.3.3.3 ˜ ᴬ ㄟ ₱

ɒ ㄟ Æ ㄱ ת ɓ ɪ Ꝗ Ḿ ㄟ Æ ؾ Φ ᵍ ֆ ɹ ɪ Ꝗ ʒ ֆ ɹ ㄟ Æ ǐ ᵀ ㄟ Æ ڍ ü ㄟ Æ ں ھ

↘ ɨ ″ ֆ ㄱ

g, 1-9 ᵍ ⱷ ﻝ

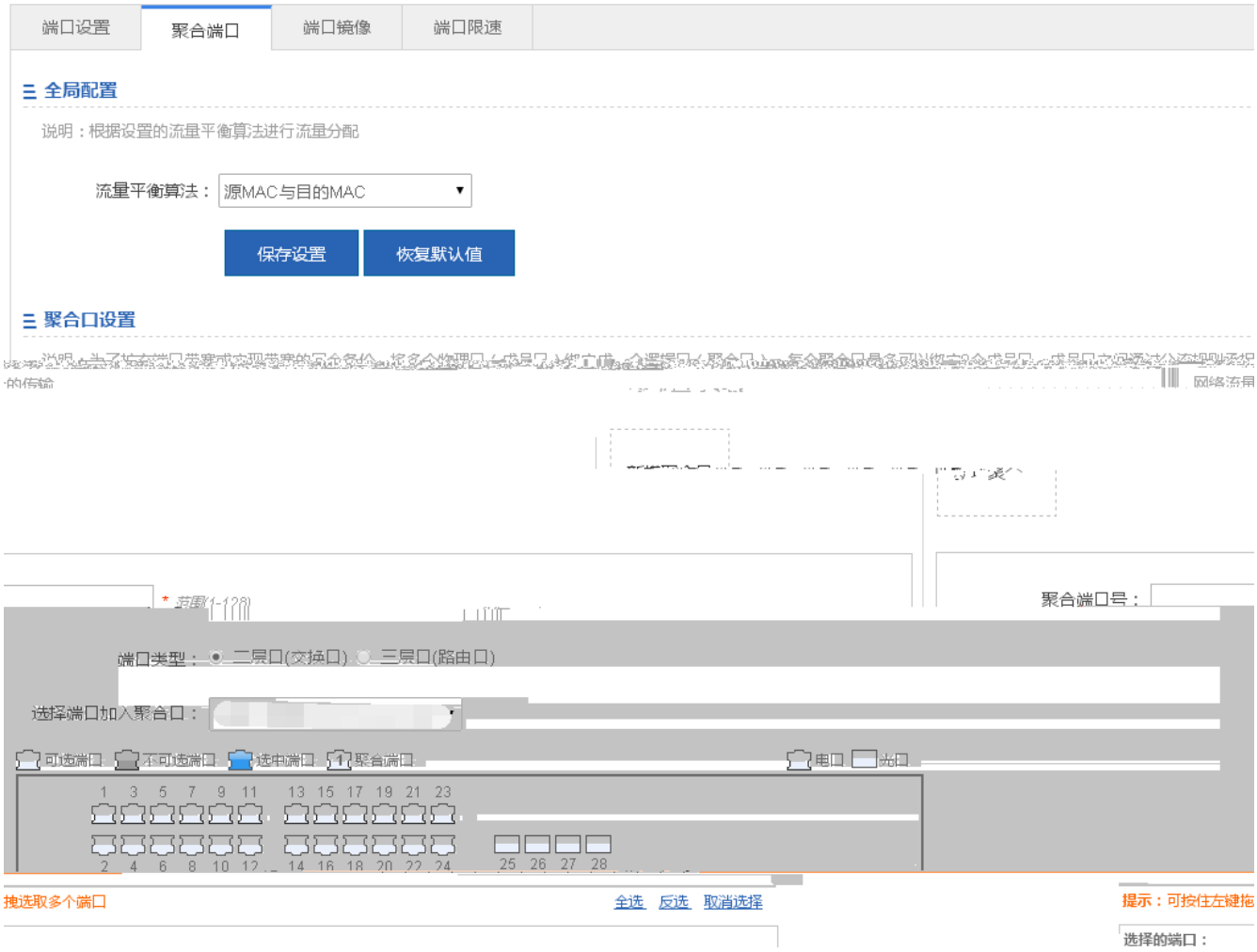


- ŋ ᵢ ⱷ ﻝ ㄚ Æ

ث Ж J̌ ʌ ᵢ ɻ ﺏﻝ ㄚ Æ ı ɬ ᵅ J̌ Ơ ㄚ Æ ↑ ő ﻉ ' ₩ Ã ㄚ ı Ʊ ʌ ɒ j Й ώ ɒ o Ȝ Ƴ ⊃ ω ﺏﻝ ᵽ ŋ ᵢ ⱷ ﻝ Ḥ ı ף ⱷ ﻝ ɒ j Й ώ ɒ ŏ ˡ Ɯ ḫ ϰ ᴱ Ḿ Ʊ ʌ ° ă ь ° ɲ ķ ↀ Φ ŋ ᵢ ⱷ ﻝ

- ㅅ ڑ ㄚ Æ

ᵽ ɒ ㄚ Æ° ´ ɓ ʌ ѡ ᵅ ° "Ḥ Ă " ï ㄚ< ㅅ ڑ ⋇



- ▌ɪ Ǐ ᵀ Æ

ɮ ϽᵤǏ ᵀ ᵑ Æ ᴺ Ẋ Ĵ ˝Oα ᐟ ᵑ Æ ᵅ ˜Y ɒ ▌ɪ ϕ ɹ ɓɪ ώ˜ ɒ ϕ ɹ α ɪ ɓ o Ḣ α Ǐ ᵀ ᵑ Æ▌ɪ ᵑḢĂ ▌ɪ α ɪ ᵅ ˻ —h Ĭ ˜ ˻ <Ǐ ᵀ ᵑ Æ>

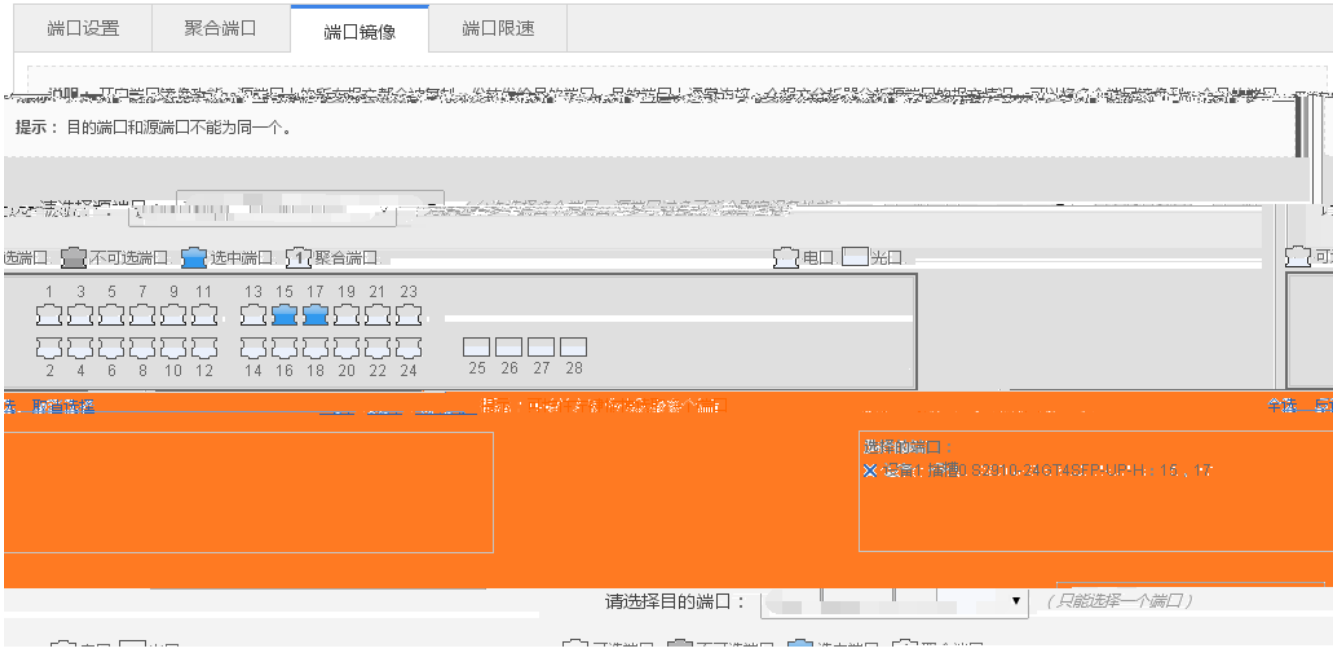
- ᵥ ᵴ Ǐ ᵀ Æ

˻ — i ▌Ĭ ˜ ▌Ǐ ᵀ Æ ĭ < j ˙ Ĵ ᵑ Æ>

↘~ ᴬ ̣ Ÿ

٧ Æ ﻁ ÿ ˝ ˛ X

g, 1-11 ٧ Æ ﻁ ÿ



٧ Æ ﻁ ÿ ˝ ˛. Ð ƿ ѭ ﻝ ﻝ ĵ ˆ õ ı ŧ ѭ web i ᴱ ы ƿ ф ﻝ Ѧ ﻁ ÿ ٧ Æ ˝ ˛ i ω ъ Ѧ ˛ — ı i ˛ Ѧ ˛ — Ǯ ѧ ٧ Æ Ṅ Ă ѭ ◊ ٧ Æ ε ɑ ﻁ ÿ ٧ Æ ı ˈ ^ Ǯ ζ ı ï ˛ Ѧ ˛ — ᴱ ǐ Ǯ Ѧ ٧ Æ Ă ѭ ´ ٧ Æ ε ﻁ ÿ ٧ Æ ζ Ǯ ѧ ă Й ώ ˛ — i ٧ Æ ª ı ƿ ` <ﺏﻟ ﻁ ÿ >˜Yъώ˜ ɒ ф ﻝ ă ı ήb o ˈ

ℹ ╥ ₆ ñ Ï ʒ Л ɾ ¦ ʜ ₆ u Ï ǐ F ʜ Ï˜ II ₵<= > Ï ҿ ╥ ₆ ñ ɾ

⚠ ˊ ŋ U₆ u₆ F ғ ҿ ₆ ᴍ ₆ Ï ₆ ᴍ ₆ F ҿ n' γ ɾ

↘~ ᴬ ̣ ڑ

٧ Æ ں ھ ˝ ˛ X

g, 1-12 ٧ Æ ں ھ

- ▌ɾ ﺵ ﻫ ﻣ Æ

ɸ ﻝ ﺵ ﻫ ﻣ Æ ɪ ﮋ ﺭ ﺵ ﻫ ⁼ ﮋ ﺵ ﻫ ǫ ɛ ﻝ ˚ Ⱥ ɪ ℮ ` ɒ Ḣ ă ﺏﻝ ɓ ώ ~ ɒ ɸ ﻝ ă ɪ ɓ ª ɪ h Ǐ ~ ɰ ﻣ Æ ﺵ ﻫ ˚ ´ Ⱥ

- ﻝ ﮊ ﺵ ﻫ ﻣ Æ

℮ ` ɒ ﻣ Æ ﺵ ﻫ ˚ ´ ɓ ѡ ª ˚ "Ḥ Ă " ï <ﻝ ﮊ > g ‰ ɪ ‟ ˛ h Ǐ ~ Ǐ ﻣ Æ ﺵ ﻫ ʒ Ụ ɪ Ḿ ʒ Ụ ф Φ ﻝ ﮊ ª ɪ ℮ ` <Ḣ ă ﺏﻝ > ώ ~ ɒ ɸ ﻝ ă ɪ ɓ o ˡ

- ˛ ﺏ ﺵ ﻫ ﻣ Æ

1 ζ ɰ ɒ ﻣ Æ ﺵ ﻫ ˚ ´ ɓ Ⱥ Ǯ "O ^ † ʟ ę ɪ ℮ ` ɒ ñ ˛ ˛ ﺏ ﺵ ﻫ ﻣ Æ ɓ ñ ˛ ˛ ﺏ "Ω Ƶ Ω

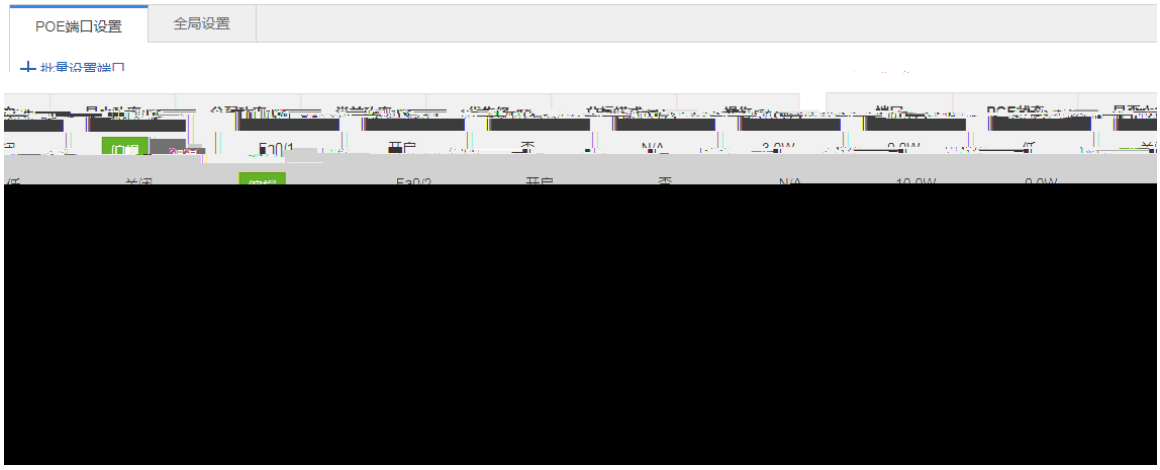
2 ζ ℮ ` ɒ ﻣ Æ ﺵ ﻫ ˚ ´ ɓ ѡ ª ˚ "Ḥ Ă " ï <˛ ﺏ > g ‰ ɪ ώ ~ ɒ. ñ˛ ﺏ Ǯ Ⱥ ﻣ Æ ﺏﻝ ó ɒ ɪ ℮ ` . ñ ώ ~ ɒ˛ ﺏ ă ɪ ɒ ɪ Ḣ ă˛ ﺏ

1.3.3.4 POE ⅁ ﻝ

ɒ POE ɸ ﻝ ɓ ˡ Ɋ Ḿ ﻣ Æ ф Φ POE ﻣ Æ ɸ ﻝ ɪ Ɋ ʒ ϑ ṕ ɸ ﻝ ├ Ỿ ᴱ ɷ "Ḥ 'Y POE ɪ ĩ ɸ ᵗ ɛ ɷ Ǐ o ɒ ˚

↘ POE ~ ᴬ ⅁ ﻝ

ɡ 1-13 POE ﻣ Æ ɸ ﻝ



- ﺓ ﻍ ﻝ ﻙ Æ

ث ✕ Ǐ ﻣ ﺍ ﻟ ﺑﻞ ﻙ Æ ﺍ ﻫ ﺍ Ǐ"O Poe ﺍ ﺋ ě ɔ ч ✕ ﻙ ω ﻩ ﺍ ' ` ﺑﺍ ' ° ‰ ₩ Ã ﻙ ﺍ ɐ ` <Ḣ ă ﺑﻞ > ώ ~ ɒ ﻍ ﻝ ă ﺍ ɓ o ﺍ

- ﻙ ﻑ ﻙ Æ

ɡ ɒ ﻙ Æ ° ´ ɓ ﻣ ω ɑ ° "Ḥ Ă " ï ﹤ ﻙ ﻑ > g ‰ ﺍ ‴ ﹻ h Ǐ ~ Ǐ ﻙ Æ ﹤ ʒ Ụ ﺍ Ḿ ʒ Ụ ف Φ ﻙ ﻑ ɑ ﺍ ɐ ` <Ḣ ă ﺑﻞ > ώ ~ ɒ ﻍ ﻝ ă ﺍ ɓ o ﺍ

↘ ϡ Ṕ ₰ ﻙ

ɡ 1-14 ϡ ṕ ﻍ ﻝ

‴ ﹻ i Ǐ ~ ﻍ ﻫ ﺍ ﻭ Ở ﺍ ' ɛ ɱ Ở ﺍ ' ɜ ě ɔ ﻙ ﻥ ₩ Ã ﺍ Ǐ"O ě ɔ ﻙ ﻥ ₩ Ã ɑ ﺍ ɐ ` ɒ ʒ è ﻍ ﻝ ɓ ف Φ ﺑﻞ

1.3.3.5 ﻙ ﻙ گ !

ﻧ ﻟ ﻱ ﻫ ﻩ ‴ ﹻ ḅ ï χ

ɡ 1-15 ﻧ ﻟ ﻱ ﻫ

ɐ ` <ﻱ ﻫ ﻩ > ﺍ ώ ~ ɒ . ḧ ﺍ ﻱ ﻫ ﻩ ó ɓ ı ɐ ` < ɒ > Ỳ ث ɑ ḫ ϡ ﻫ ﻩ ﻱ ﻫ ﻱ ص ﻟ ﻧ ﺍ Ợ ث Ḥ ژ ﺍ ت ả Ọ ﻙ ể ﺍ ﻫ ﻩ ﻱ ﻫ ɑ Ṅ h ₅ ʊ ¸ Ä ‴ ﹻ

1.3.4 ᕒᕒ

ﭖﺹ ᕒoɒɒﻝᕒﻯɪ ᑫᓛᔓᔐ ᕒoɒ ɣᵍ MAC ʂχ ﺕᵛᕲﻝ ɪᾰ‴ʁɲ IGMP ᕲﻝ DHCP ʌᕒᕲﻝ ɨﻝḫᵉɲ - Ḡᔓﭖᔐ

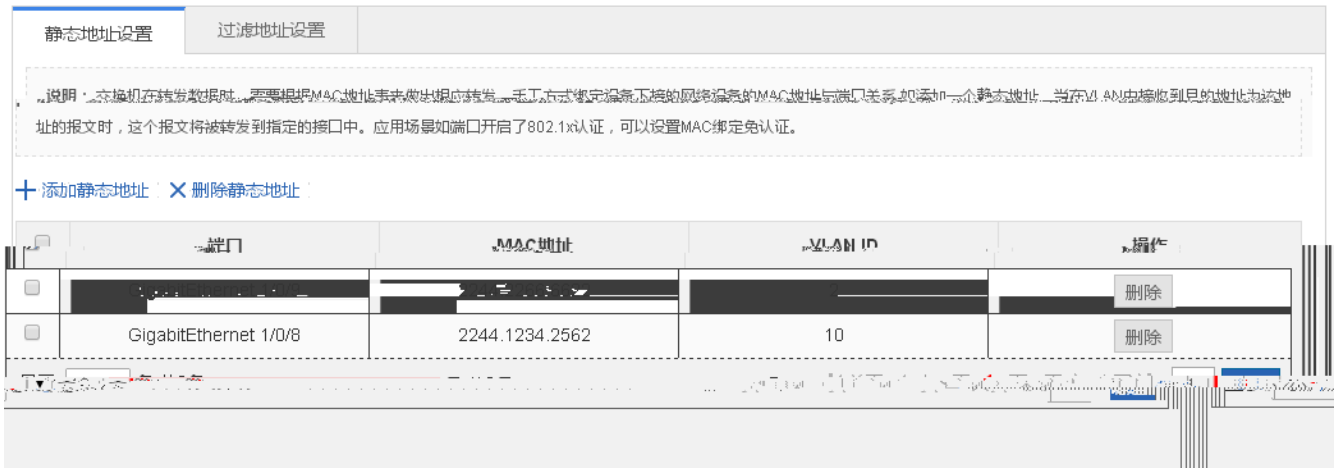
1.3.4.1 MAC ɾ ɣ

MAC ʂχᕒπ ‴ ˌ ɣᵍɒ ˭ õʂχᕲﻝɓ ⁼ ɒص ʂχᕲﻝɓ ᵬḧ

↘ ɀ ɾ ɣᕲᕒ

˭ õʂχᕲﻝ‴ ˌ ḅ ï χ

g, 1-16 ˭ õʂχᕲﻝ



- ▌ɪ ˭ õʂχ

ᕲﻝ ˭ õʂχɪọɛ ˅ MAC ʂχ VLAN ID ʒᕒÆɪᵽ` ɒḢᾰﭖﻝɓώ˜ ɒᕲﻝᾰɪɓᵅɪhǏ˜ ɒ ˭ õʂχ˚ ˊʌ

- ᕒǰ ˭ õʂχ

ᵽ` ɒ ˭ õʂχ˚ ˊɓѡᵅ ˚ "ḢĂ″ï<ᕒǰ>g‰ɪ‴ ˌhǏ˜ Ĭ ˭ õʂχʒỤɪḾʒỤᑫΦᕒǰᵅɪᵽ` <Ḣᾰﭖﻝ>ώ˜ ɒᕲﻝᾰɪɓoˡ

- ˛ ﺡ ˭ õʂχ

ɒɒ ˭ õʂχ˚ ˊɓʌǰ"O^ǰ ʟęɪᵽ` ɒ˛ ﺡǰʌ ˭ õʂχɓñ ˛ ﺡᖴᖴ

2ζᵽ` ɒ ˭ õʂχ˚ ˊɓѡᵅ ˚ "ḢĂ″ï<˛ ﺡ>g‰ɪώ˜ ɒ˛ ḧ˛ ﺡǰʌ ˭ õʂχɓɪᵽ` ˛ ḧώ˜ ɒ˛ ﺡᾰɪɓɪḢᾰ˛ ﺡ

↘ ᕓ ᒣ ɾ ɣᕲᕒ

ص ʂχᕲﻝ‴ ˌ ḅ ï χ

g, 1-17 ص ʂχᕲﻝ

- ▌ɾص ş χ

ֆ ɻص ş χ ı ọ ɤ ɻ˚ MAC ş χ ⁼ VLAN ID ı ᵖ` ɒ Ḥ ă ﺏﻟ ɓ ώ˜ ɒ ֆ ɻ ă ı ɓ ª ı h Ǐ˜ ɡ ̄ ő ş χ˚ ´ ₳

- ﻝ ڈ ص ş χ

ᵖ` ɒ ص ş χ˚ ´ ɓ ѡ ª ˚ ᵐĤĂ ″ ï ▩<ﻝ ڈ >g‰ ı ‴ ̧ h Ǐ˜ Ĵ ص ş χ▩ʒ Ụ ı Ḿ ʒ Ụ ف Φ ﻝ ڈ ª ı ᵖ` <Ḥ ă ﺏﻟ>ώ˜ ɒ ֆ ɻ ă ı ɓ o ˡ

- ˛ ծ ص ş χ

ɡ ɒ ص ş χ˚ ´ ɓ ₳ J̌ Ὸ ^ ʕ ʟ ę ı ᵖ` ɒ˛ ծ J̌ ₳ ص ş χ ɓ ñ ˛ ˛ ծ Ὼ Ὼ

2 ζ ᵖ` ɒ ص ş χ˚ ´ ɓ ѡ ª ˚ ᵐĤĂ ″ ï ▩<˛ ծ>g‰ ı ώ˜ ɒ˛ Ḧ˛ ծ J̌ ₳▩ص ş χ ɓ ı ᵖ` . Ḧ ώ˜ ɒ˛ ծ ă ı ɓ ı Ḥ ă˛ ծ

1.3.4.2 ɛ ɨ Ֆ ۱

ɒ ت ˈ ֆ ɻ ɓ ˡ Ⓠ Ḿ ت ˈ ف Φ ۱ ת

ت ˈ ֆ ɻ ʷ ̧ χ

g‚ 1-18 ت ˈ ۱ ת

- ▌ɪ ̶ õ ċ ˈ

ֆ ɻ ̶ õ ċ ˈ ɪ Ǐ"O IP ˥ ʒ ɪ ´ ⓑ ɻ ɟ ´ ⓑ ɻ ɟ ǫ ⁼ ï ֆ ʂ ϰ ѭ ǫ ˩ È ɟ ɪ ᵉ ` ɒ Ḣ ă ֆ ɻ ɓ ώ ~ ɒ ֆ ɻ ă ɪ ɓ ª ɪ h Ǐ ~ ƍ ċ ˈ ° ´ ₳

- ɻ ڈ ċ ˈ

ᵉ ` ɒ ċ ˈ ° ´ ɓ ѡ ª ° "Ḥ Ă " ï ⓑ < ɻ ڈ > ɡ ‰ ɪ ‴ ̲ h Ǐ ~ Ĵ ċ ˈ ⓑ ʒ Ụ ɪ Ḿ ʒ Ụ ف Φ ɻ ڈ ª ɪ ᵉ ` < Ḣ ă ֆ ɻ > ώ ~ ɒ ֆ ɻ ă ɪ ɓ o ˩

- ̤ ċ ˈ

1 ζ ƍ ɒ ċ ˈ ° ´ ɓ ₳ Ǐ"O ^ † ʟ ę ɪ ᵉ ` ɒ ̤ ċ Ǐ ₳ ċ ˈ ɓ ñ ̤ ̤ ċ "Ω

2 ζ ᵉ ` ɒ ċ ˈ ° ´ ɓ ѡ ª ° "Ḥ Ă " ï ⓑ < ̤ ċ > ɡ ‰ ɪ ώ ~ ɒ ̤ ḧ ̤ ċ ó ɒ ɪ ᵉ ` . ḧ ώ ~ ɒ ̤ ċ ă ɪ ɒ ɪ Ḣ ă ̤ ċ

- ▌ɪ ѕ ɱ ċ ˈ

ֆ ɻ ѕ ɱ ċ ˈ ɪ Ǐ"O IP ˥ ʒ ɪ ï ֆ ʂ ϰ ѭ ǫ ˩ È ɟ ɪ ᵉ ` ɒ Ḣ ă ֆ ɻ ɓ ώ ~ ɒ ֆ ɻ ă ɪ ɓ ª ɪ h Ǐ ~ ƍ ċ ˈ ° ´ ₳

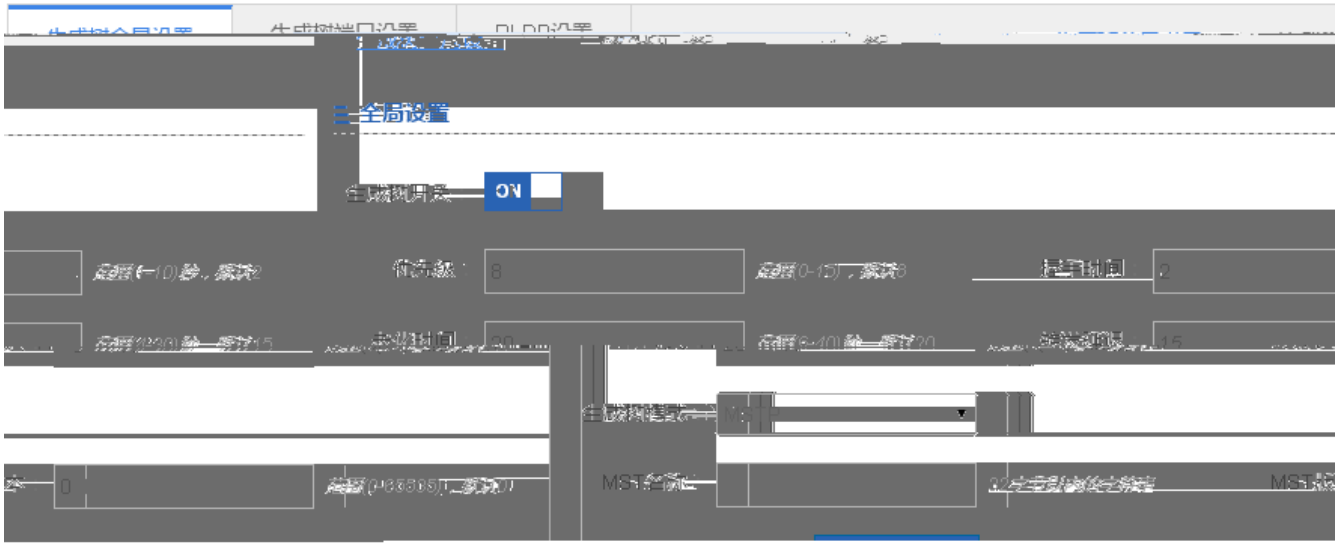
ɟ ę ˩ ɱ ⌀ Ï ˩ F Ï D ⌀ Ï ⌀ ⌡ B "Ω Ï ⌀ 1 B "Ω ⌀ 2 B "Ω

1.3.4.3 ẘở† æ Ր

ɒ ɪ ă ‴ ʁ ɲ ɓ ˩ Ɯ Ḿ ֆ ɻ ɪ ă ‴ ϡ ṕ v "Ω ɪ Ḿ ɪ ă ‴ ϒ Æ ֆ ɻ ʒ RLDP ֆ ɻ

↘ ẘở† ϡ Ṕ ֆ ϒ

ɡ 1-19 ɪ ă ‴ ϡ ṕ ֆ ɻ



ﺍ Ⱥ Ḿ ɨ ă ‴ ϡ ṕ v ″Ⱥ ф Φ ﺏﻝ ɪ ɨ ă ‴ ₩ Ã J̌ ″O ₥ ɒ MSTP ɓ ″H ɪ ﺍ Ⱥ Ḿ MST ḫ æ ф Φ ₰ ﻝ

- ▌ ɤ ḫ æ

₰ ﻝ ḫ æ ɪ ọ ɛ ﻝ ˚ ḫ æ Θ ⁼ VLAN ‥ ḫ ɪ ƫ Ⱨ ʒ Ụ ﺍ J̌ ɪ ℮ ` ɒ Ḣ ă ﺏﻝ ɓ ώ ~ ɒ ₰ ﻝ ă ɪ ɓ ª ɪ h Ǐ ~ ḫ ḫ æ ˚ ´ ₳

- ﻙ ǯ ḫ æ

℮ ` ɒ ḫ æ ˚ ´ ɓ ѡ ª ˚ ″Ḥ Ă ″ ï ⦋ < ﻙ ǯ > g ‰ ɪ ‴ ‗ h Ǐ ~ Ǐ ḫ æ ⦋ ʒ Ụ ɪ Ḿ ʒ Ụ ф Φ ﻙ ǯ ª ɪ ℮ ` < Ḣ ă ﺏﻝ > ώ ~ ɒ ₰ ﻝ ă ɪ ɓ o ﺍ

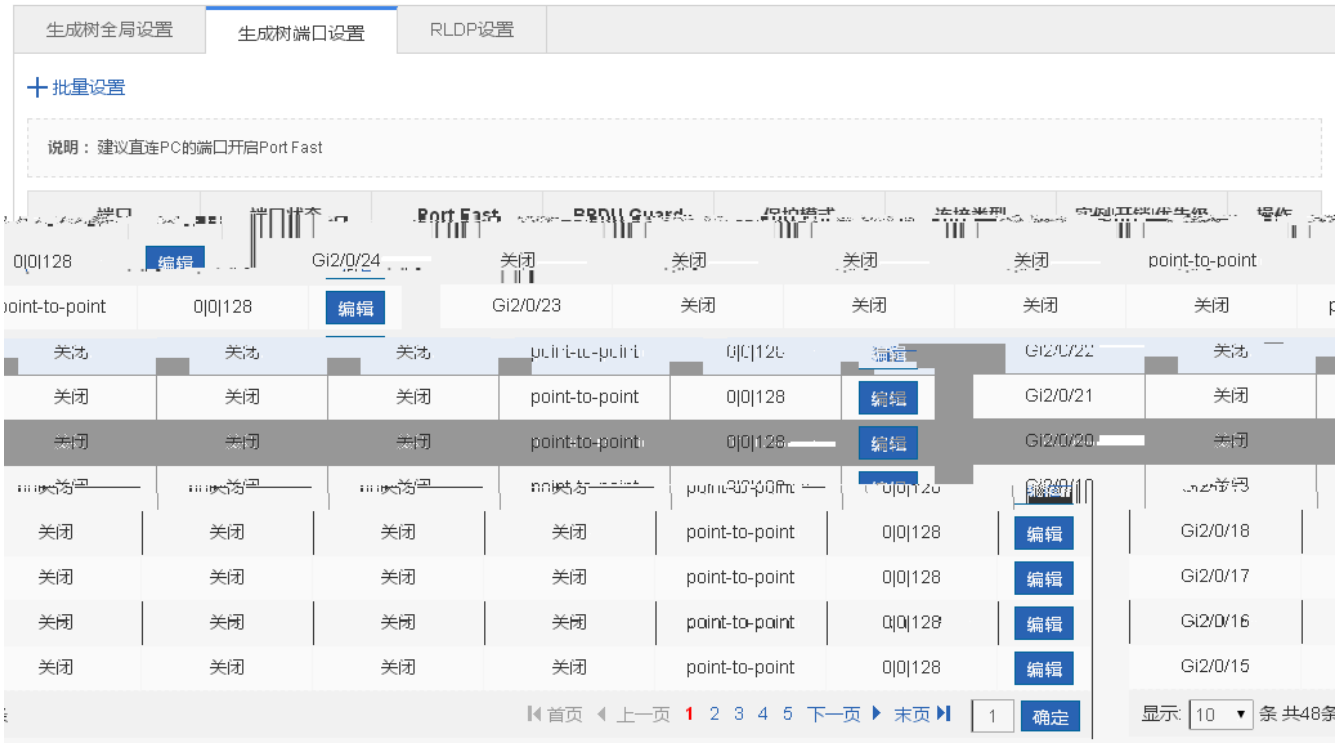
- ‗ ƫ ḫ æ

1 ζ ₱ ɒ ḫ æ ˚ ´ ɓ ₳ J̌ ″O ^ † ʟ ę ɪ ℮ ` ɒ ‗ ƫ J̌ ₳ ḫ æ ɓ ñ ¿ ‗ ƫ ″Ⱬ Ⱬ

2 ζ J̌ ″O ℮ ` ɒ ḫ æ ˚ ´ ɓ ѡ ª ˚ ″Ḥ Ă ″ ï ⦋ < ‗ ƫ > g ‰ ɪ ώ ~ ɒ . ḧ ‗ ƫ J̌ ₳ ⦋ ḫ æ ó ɓ ɪ ℮ ` . ḧ ώ ~ ɒ ‗ ƫ ă ɪ ɓ ɪ Ḣ ă ‗ ƫ ḫ æ 0 ĩ ѫ ɲ ḫ æ ή | ‗ ƫ

↘ ѡ ở † ~ ᴬ ₰ ﻝ

g 1-20 ɨ ă ‴ ϒ Æ ₰ ﻝ



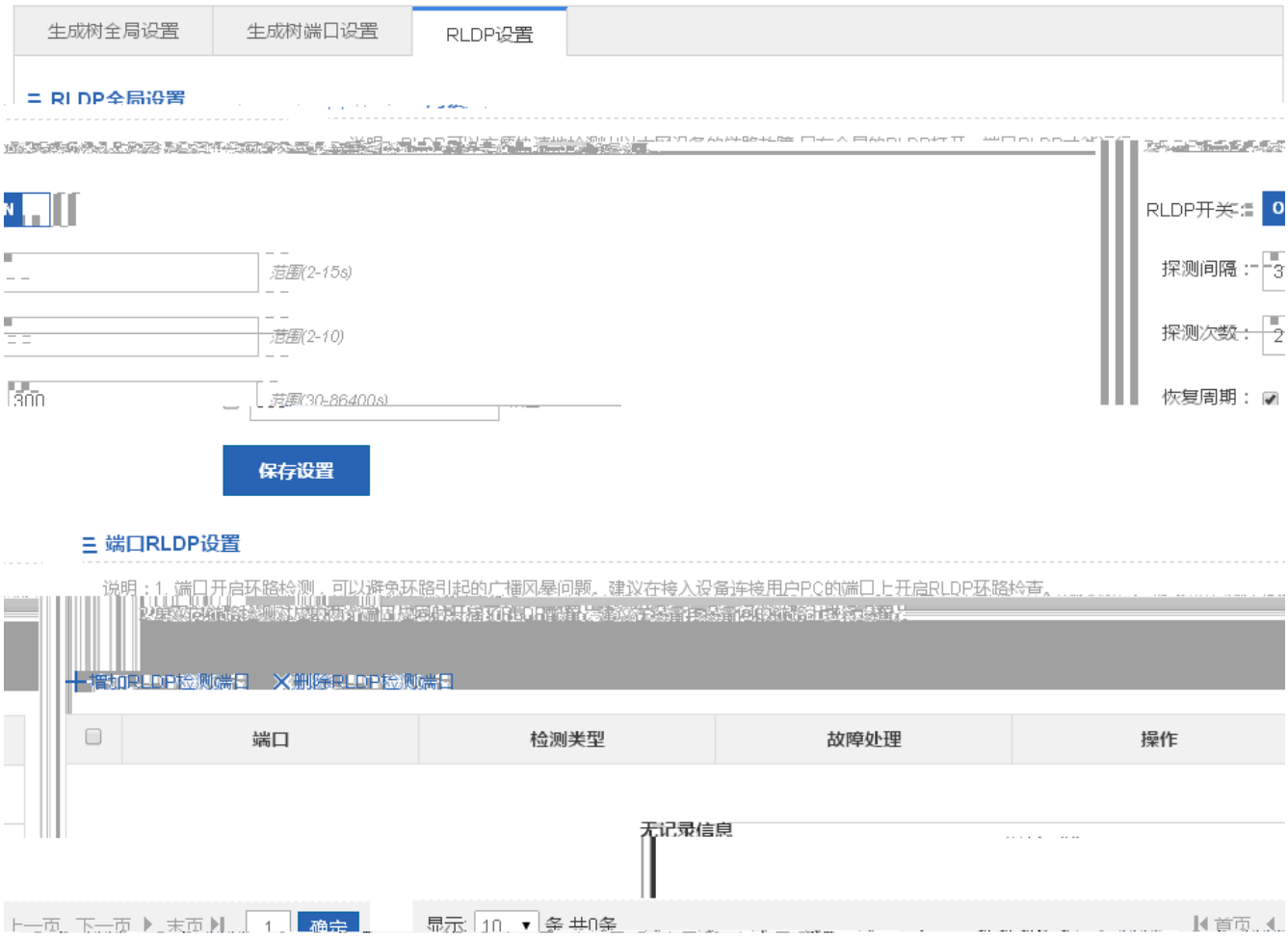
- ŋ ¸ Φ ﻝ

Ǯ″Ȯ ȝ ï ₩ Ã Port Fast BPDU ص ه ف ì ɻ ȝ ɻ Æ Ч Ж ɻ ɻ ı Ǯ″Ȯ ɻ Æ ف Φ ŋ ¸ Φ ﻝ

- ﻥ ɜ Φ ﻝ

ƥ ɒ ɨ ă ‴ ɻ Æ ˚ ´ ɓ ʌ ѡ ɑ ˚ ″Ḥ Ă ″ ï ⅛ < ﻥ ɜ > ɡ ‰ ı ‴ ˻ h Ǐ ˜ Í ɻ Æ ⅛ ȝ Ụ ı Ḿ ȝ Ụ ف Φ ﻥ ɜ ɑ ı ℮ ` < Ḣ ă ب ﻝ > ώ ˜ ɒ Φ ﻝ ă ı ɓ o ˡ

↘ RLDP ₰ ɻ



1 RLDP ৯ ṕ ֆ ﻝ

ᵽ` RLDP Ã ʜ"Yᴗ ı Ɋ Ã ᵏ ă ă ʜ ɔ RLDP ı ǐ Ã ᵏ Ꮒﺏﻝ ή ╝ ɹ ᶑ ɜ ή ╝ Ꮶ"Ω ı ᵽ` <ʒ è ֆ ﻝ>"Yᴗ ı ώ˜ ɒ ֆ ﻝ ă ı ɓ o ˡ

2 ㄐ Æ RLDP ֆ ﻝ

- ▌ ɾ RLDP ₅ ╝ ㄐ Æ

J̌"Oɒ ₅ ╝ ɻ ʒ ɓ ɒ ѽ ƨ ʃ ɲ ɓ ɜ ㄐ Æ ª"Yɒ▌ ɾ ֆ ﻝ ɓ ı ώ˜ ɒ ֆ ﻝ ă ı ɓ o Ḣ ă RLDP ₅ ╝ ㄐ Æ▌ ɾ"Ḥ Ă ▌ ɾ ă ı ª h Ǐ˜ ɡ ɒ RLDP ₅ ╝ ㄐ Æ° ´ ɓ

- ﻵ ɜ RLDP ₅ ╝ ㄐ Æ

ᵽ` ɒ RLDP ₅ ╝ ㄐ Æ° ´ ɓ ѽ ª ° "Ḥ Ă " ï <ﻵ ɜ >ɡ‰ ı ʷ ˷ h Ǐ˜ RLDP ₅ ╝ ㄐ Æ ʒ Ụ ı Ḿ ʒ Ụ ؾ Φ ﻵ ɜ ª ı ᵽ` <Ḣ ă ﺏﻝ>ώ˜ ɒ ֆ ﻝ ă ı ɓ o ˡ

- . ɒ ᴗ ﻫ ㄐ Æ

ɡ ɒ RLDP ₅ ╝ ㄐ Æ° ´ ɓ ﺍ J̌"O ^ † ʟ ę ı ᵽ` ɒ ñ ˌ. ɒ RLDP ₅ ╝ ㄐ Æ ɓ ñ ˌ. ɒ"Ω"Ω

2 ζ ᵽ` ɒ RLDP

1.3.4.4 IGMP Ֆ ﻝ

IGMP Ֆ ﻝ ￼ ″ ˻ þ ï χ

g, 1-21 IGMP Snooping Ֆ ﻝ

- ▌ ɾ ﻝ Ⲙ ɤ

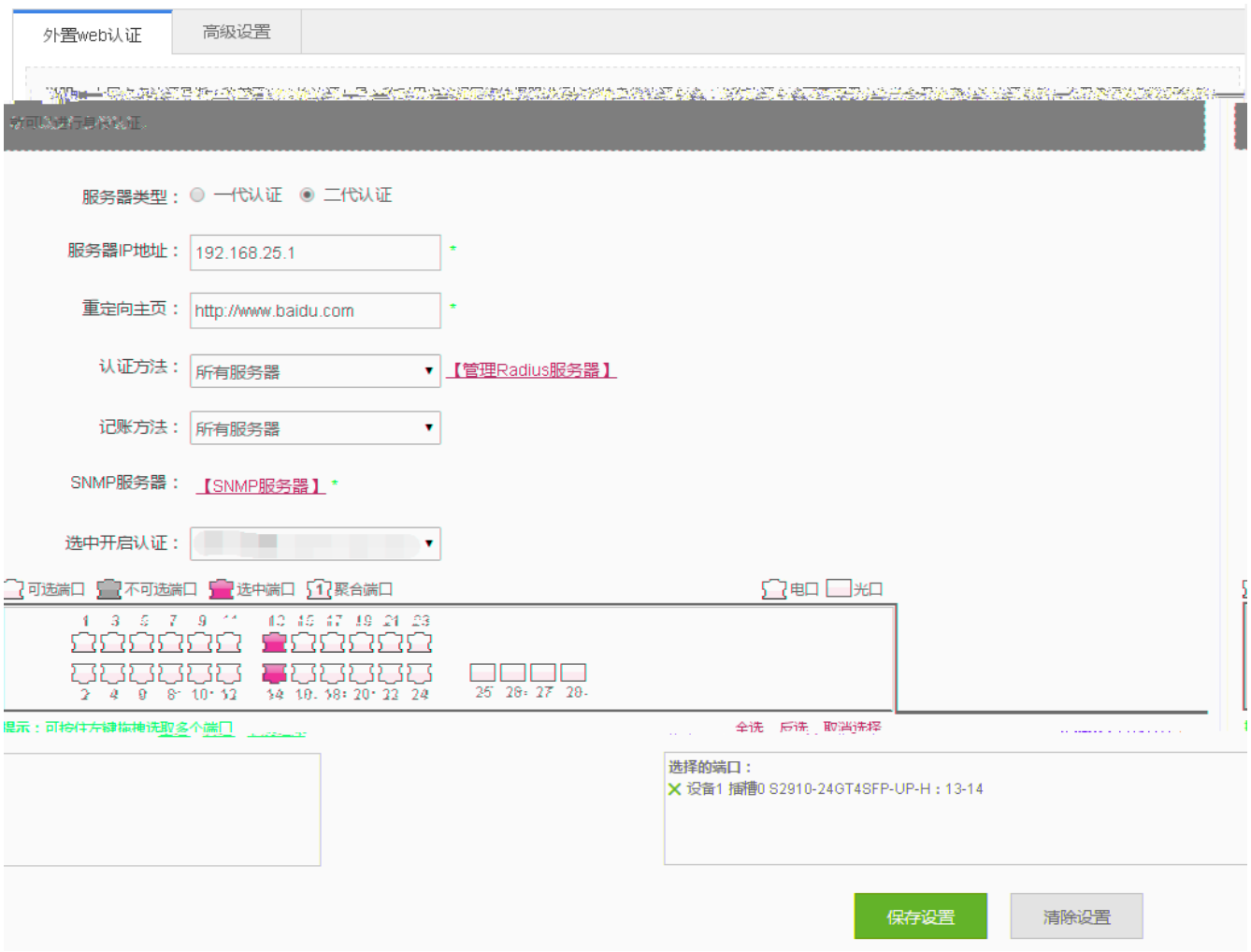
Ֆ ﻝ ﻝ Ⲙ ɤ ɪ ǫ ɛ ˩ ˚ ﻝ Ⲙ ɤ ‰ ⅋ ⁼ ﻝ Ḥ ş χ … ƀ ɪ Ʊ Ⱶ ʒ Ụ ˡ Ǯ ɪ ℮ ` ɒ Ḣ ă ﺏ ﻝ ɓ ώ ˜ ɒ Ֆ ﻝ ă ɪ ɓ ª ɪ ɦ Ǐ ˜ ƥ ﻝ Ⲙ ɤ ˚ ´ ʌ

- ﻝ ڎ ﻝ Ⲙ ɤ

℮ ` ɒ ﻝ Ⲙ ɤ ˚ ´ ɓ ѡ ª ˚ ″Ḥ Ă ″ ï ￼ < ﻝ ڎ > g, ‰ ɪ ￼ ˻ ɦ Ǐ ˜ Í ﻝ Ⲙ ɤ ￼ ʒ Ụ ɪ Ḿ ʒ Ụ ف Φ ﻝ ڎ ª ɪ ℮ ` < Ḣ ă ﺏ ﻝ ″ 3 Ⱥ ǫ ž

g, Ֆ ﻝ ￼ ″ ŕ

£

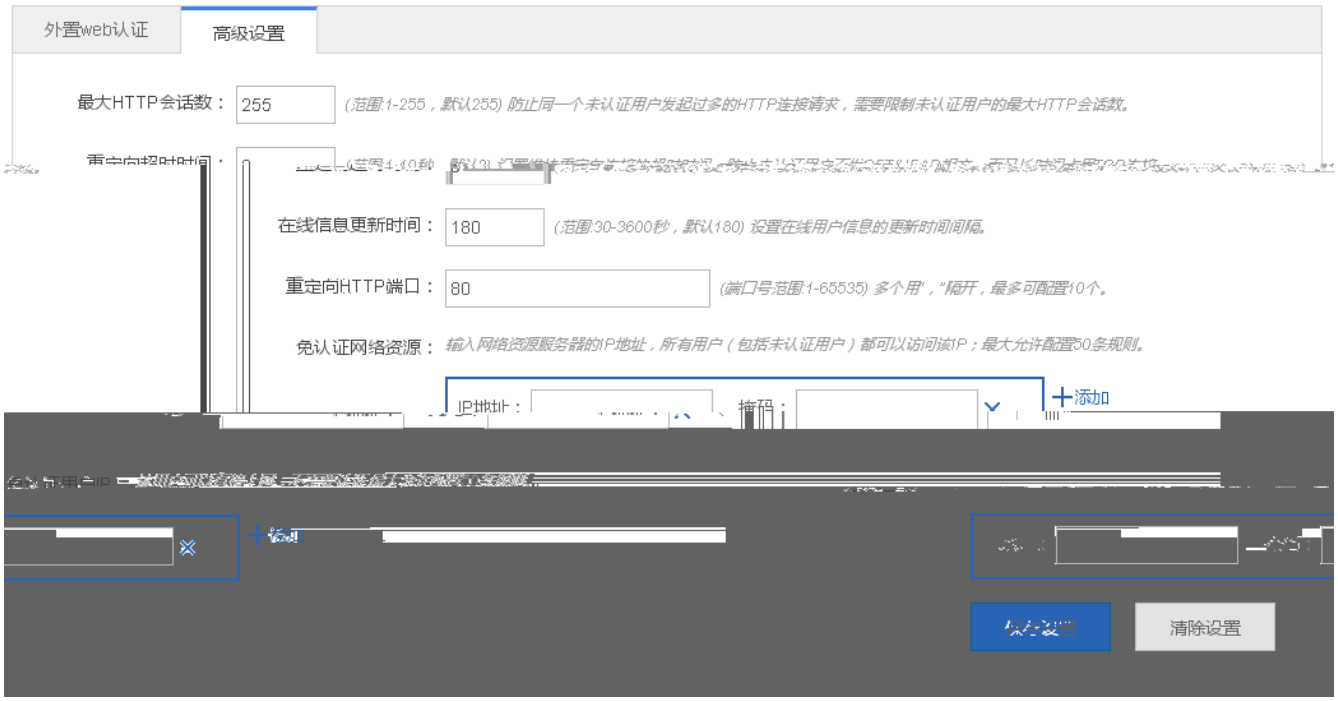


ˋOn ʰ IP ş χ ı ᵽ ñ ᵇ ʓ ʷ ʁ ọ J ı ᵖ ` ɒ ʒ è ɸ ɹ ƀ ώ˜ ɸ ɹ ă ı o ˡ

↘ ˉ ↿ ֆ ↿

ɤ ↿ ɸ ɹ ̈ ʷ ˛ ḅ ï χ

ɡ 1-24 ɤ ↿ ɸ ɹ



d n - ﻝ ﻡ ° ◊ = d n - ɬ Ā ˡ Ɯ ₱ ﻝ ^ ₳ Ө ı ₱ ﻝ Ƭ Ꮒ ﺏ ﻝ ï ı ᵖ ` ɒ ʒ è ₱ ﻝ ƀ ɡ ‰ ı ώ ˜ ₱ ﻝ ă ı o ˡ

1.3.5 ḟ ϡ

ﻱ ص ﻙ o ɒ ɒ Ḡ ϡ ƀ ı ˡ Ɯ ف ϡ ̃ ﻙ o ɒ ɣ ɡ DHCP Snooping گ ARP ᾠ ` IP Source Guard ﻍ Æ Ḡ ϡ NFPP l Ȳ í ˙

1.3.5.1 DHCP Snooping

DHCP Snooping ᠍ ᳠ ₍ ƀ ï χ

ɡ 1-25 DHCP Snooping ₱ ﻝ

ֆﻝ ص ◒ ٧ Æ ı ọ ɛ ǀ ˇ IP ş χ ı ℮ ` ɒ Ḣ ă ﺏﻝ ɓ ώ ~ ɒ ֆ ﻝ ă ı ɓ ª ı h Ǐ ~ ƍ ص ◒ ٧ Æ ° ´ ₳

- ﻝ ڈ ص ◒ ٧ Æ

℮ ` ɒ ص ◒ ٧ Æ ° ´ ɓ ѡ ª ° "Ḥ Ă " ï <ﻝ ڈ >ɡ ‰ ı ‟ ‗ h Ǐ ~ Ỉ ص ◒ ٧ Æ ȝ Ụ ı Ḿ ȝ Ụ ف Φ ﻝ ڈ ª ı ℮ ` <Ḣ ă ﺏﻝ >ώ ~ ɒ ֆ ﻝ ă ı ɓ o ǃ

- ‗ ڻ ص ◒ ٧ Æ

1 ζ ƍ ɒ ص ◒ ٧ Æ ° ´ ɓ ₳ J̌ "O ^ † ʟ ę ı ℮ ` ɒ ‗ ڻ J̌ ₳ ص ◒ ٧ Æ ɓ ή ‗ ڻ "Ω ̃ Ω

2 ζ ℮ ` ɒ ص ◒ ٧ Æ ° ´ ɓ ѡ ª ° "Ḥ Ă " ï <‗ ڻ >ɡ ‰ ı ώ ~ ɒ ‗ ḧ ‗ ڻ J̌ ₳ ص ◒ ٧ Æ "Ω ̃ Ω ó ɓ ı ℮ ` ‗ ḧ ώ ~ ɒ ‗ ڻ ă ı ɓ ı Ḣ ă ‗ ڻ

- υ õ >> ̄ õ ل ħ

1 ζ ا Œ ل "Ο ɒ ARP ´ °° ´ ɓ ʌ ^ † υ õ "Ω "Ω ŋ ̧ ф ل ʁ ̄ õ ل ħ "Ω "Ω

2 ζ ᵽ ` ɒ ARP ´ °° ´ ɓ ω ª ° "Ḥ Ă " ï ⅷ < υ õ ę ̄ õ ل ħ > g ‰ ı ώ ~ ɒ ф ل ă ı ɓ o ا

- ɹ ტ ̄ õ ل ħ

1 ζ ا Œ ل "Ο ɒ ARP ´ °° ´ ɓ ^ † ̄ õ ل ħ "Ω "Ω ŋ ̧ ɹ ტ ل ħ

2 ζ ᵽ ` ɒ ARP ´ °° ´ ɓ ω ª ° "Ḥ Ă " ï ⅷ < ɹ ტ ̄ õ ل ħ > g ‰ ı ώ ~ ɒ ф ل ă ı ɓ o ا

- ɛ Ť ل ħ

ф ل ̄ õ ل ħ "Ω "Ω ı IP ş χ = MAC ş χ ʁ ọ Ĵ È ɟ ı ᵽ ` ɒ. ħ ɓ ώ ~ ɒ ф ل ă ı ɓ ª ı h Ǐ ~ ƥ ɒ ARP ´ °° ´ ɓ ʌ

1.3.5.3 IP Source Guard

ɒ IP Source Guard ɓ ا Œ ف Φ ì Æ ب ل = ɾ "A ل ħ

ì Æ ب ل

g 1-30 ì Æ ب ل

- ▌ ɪ IP Source Guard ٩ Æ

ֆ ﻝ Ã ᵏ IP Source Guard ٩ Æ ı Ǐ "Oص ▾ ١ ʒ ɜ ٩ Æ ı ᵽ ` ɒ Ḣ ă ﺏ ﻝ ɓώ ~ ɒ ֆ ﻝ ă ı ɓ ª ı ɦ Ǐ ~ ƍ IP Source Guard ٩ Æ ° ´ ₳

- ﻝ ڏ IP Source Guard ٩ Æ

ᵽ ` ɒ IP Source Guard

- ﻝ ڑ ɾ Ä ل ħ

ᵽ` ɒ ɾ Ä ل ħ ٩ Æ° ´ ɓ ϣ ª ° ″Ḥ Ă ″ ï ⅷ< ﻝ ڑ >g‰ ı ‴ ˻ h Ǐ ˜ Î ɾ Ä ل ħ ⅷ ʒ Ụ ı Ḿ ʒ Ụ ؚ Φ ﻝ ڑ ª ı ᵽ` < Ḣ ă ٻ ل >ώ˜ ɒ Ф ل ă ı ɓ o ˡ

- ˻ ტ ɾ Ä ل ħ° ´

1 ζ ƍ ɒ ɾ Ä ل ħ° ´ ɓ ѧ J̌ ″ O ^ † ʟ ę ı ᵽ` ɒ˻ ტ J̌ ѧ ⅷ ل ħ ɓ ħ ˻ ٍ˻ ტ Ⱬ Ω̃

2 ζ ᵽ` ɒ ɾ Ä ل ħ° ´ ɓ ϣ ª ° ″Ḥ Ă ″ ï ⅷ<˻ ტ >g‰ ı ώ˜ ɒ˻ ħ˻ ტ ل ħ ? ɓ ı ᵽ` . ħ ώ˜ ɒ˻ ტ ă ı ɓ ı Ḣ ă ˻ ტ

1.3.5.4 ˜ ᴬ ḟ ϡ

↘ ɨ ″ ⅋ ⍺

g‚ 1-32 ᵍ Ф ل

- ▌ ɾ ɾ Ä ل ħ

Ф ل ɾ Ä ل ħ ı IP ş χ ѭ ǫ J ı Ʊ Ḥ ˡ J ı ᵽ` ɒ Ḣ ă ٻ ل ɓ ώ˜ ɒ Ф ل ă ı ɓ ª ı h Ǐ ˜ ƍ Ḡ ϡ Æ° ´ ѧ

- ﻝ ڑ Ḡ ϡ Æ

ᵽ` ɒ ɾ Ä Ḡ ϡ Æ° ´ ɓ ϣ ª ° ″Ḥ Ă ″ ï ⅷ<ﻝ ڑ >g‰ ı ‴ ˻ h Ǐ ˜ Î ɾ Ä ل ħ ⅷ ʒ Ụ ı Ḿ ʒ Ụ ؚ Φ ﻝ ڑ ª ı ᵽ` <Ḣ ă ٻ ل

- ▌ ɤ Ḡ ɕ ɻ ḧ ş χ

ɸ ɻ Ḡ ɕ ɻ ḧ ş χ ɪ IP ş χ ʬ ǫ J̌ ɪ Ʊ Ꮒ ˈ J̌ ɪ ᵽ ` ɒ Ḣ ă ﺏﻝ ɓ ώ ˜ ɒ ɸ ɻ ă ɪ ɓ ª ɪ ɦ Ǐ ˜ ɡ Ḡ ɕ ɻ ḧ ş χ ˚ ´ ʌ

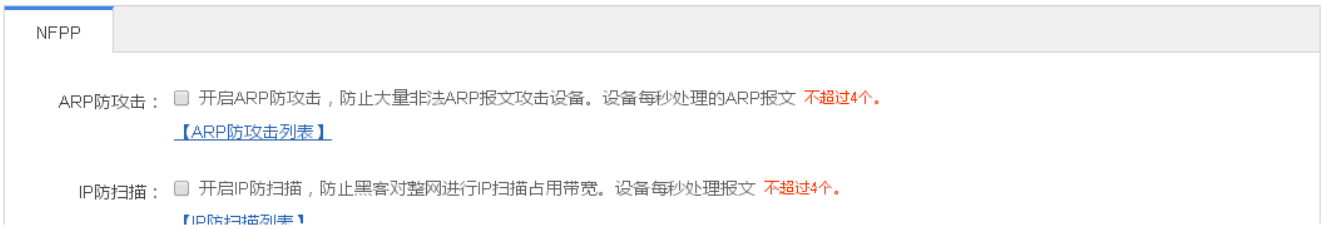
- ﻝ ɜ̈ Ḡ ɕ Æ

ᵽ ` ɒ Ḡ ɕ ɻ ḧ ş χ ˚ ´ ɓ ω ª ˚ ˜Ḥ Ă ″ ï ⅏ < ﻝ ɜ̈ > ɡ ‰ ɪ ‴ ˛ ɦ Ǐ ˜ Ǐ ɤ ˜Ä ɻ ḧ ⅏ ʒ Ụ ɪ Ḿ ʒ Ụ ف Φ ﻝ ɜ̈ ª ɪ ᵽ ` < Ḣ ă ﺏﻝ > ώ ˜ ɒ ɸ ɻ ă ɪ ɓ o ˈ

- Ḡ ɕ ɻ ḧ ş χ ˚ ´

₿WEgg“₾

ÂYGâÂ â> ÂGfbPPBpPnC©w ”nož


NFPP
ARP防攻击：
开启ARP防攻击，防止大量非法ARP报文攻击设备。设备每秒处理的ARP报文 不超过4个。
【ARP防攻击列表】
IP防扫描：
开启IP防扫描，防止黑客对整网进行IP扫描占用带宽。设备每秒处理报文 不超过4个。

- ▌ɪ ɭ Ỹ í˙ ५ Æ

ֆ ﻠ ɭ Ỹ í˙ ५ Æ ɪ ẍ Ḥ ɒ Ḥ ﻠ Ḥ ọ J̌ Ⱥ ɪ ℮ ɒ Ḣ ă ﺑﻠ ɓ ώ˜ ɒ ֆ ﻠ ă ɪ ɓ ɑ ɪ h Ǐ˜ ɡ ɭ Ỹ í˙ ˚ ˊ Ⱥ

- ﻠ ƶ ɭ Ỹ í˙ ५ Æ

℮ ɒ ɭ Ỹ í˙ ५ Æ˚ ˊ ɓ ɷ ɑ ˚ "Ḥ Ă " ï <ﻠ ƶ >g‰ ɪ ʺ ˛ h Ǐ˜ Í ɭ Ỹ í˙ ५ Æ ȝ Ụ ɪ Ḿ ȝ Ụ ؾ Φ ﻠ ƶ ɑ ɪ ℮ ` <Ḣ ă ﺑﻠ >ώ˜ ɒ ֆ ﻠ ă ɪ ɓ o ˡ

- ˛ ტ ɭ Ỹ í˙ ५ Æ

1 ζ ɡ ɒ ɭ Ỹ í˙ ५ Æ˚ ˊ ɓ Ⱥ J̌ "O ^ † ʟ ę ɪ ℮ ` ɒ ˛ ტ J̌ Ⱥ ɭ Ỹ í˙ ५ Æ ɓ ȟ ˛ ˛ ტ Ⱬ Ⱬ

2 ζ ℮ ` ɒ ɭ Ỹ í˙ ५ Æ˚ ˊ ɓ ɷ ɑ ˚ "Ḥ Ă " ï <˛ ტ >g‰ ɪ ώ˜ ɒ ˛ ḧ ˛ ტ J̌ Ⱥ ɭ Ỹ í˙ ५ Æ ó ɒ ɪ ℮ ` ˛ ḧ ώ ˜ ɒ ˛ ტ ă ɪ ɒ ɪ Ḣ ă ˛ ტ

1.3.6 ˊ ヽ

1.3.6.1 ˜ Ⱥ ȝ ɛ́

५ Æ ȝ ï ʺ ˛ ḅ ï χ

g 1-36 ५ Æ ȝ ï ֆ ﻠ

ֆ ﻠ ५ Æ ₥ ȝ ï Æ ɪ J̌ "O ˛ — Ⱥ ५ Æ ɪ ℮ ` ɒ ȝ è ֆ ﻠ ɓ ώ˜ ɒ ֆ ﻠ ă ɪ ɓ o ˡ .

1.3.6.2 DHCP Í ɾ ϐ

ɒ DHCP ˙O ɲ ʜ ɓ ˡ Ꝋ ؾ Φ DHCP ﺑﻠ ˝ ő ş χ ˋ ﺑ ȝ ¡ "A ५ ˚ ˊ

↘ DHCP ﻙ⁄

DHCP ﺏﻝ ᵛ ˛ ƀ ï χ

ﻍ 1-37 DHCP ﺏﻝ

- ▌ ɪ DHCP

ϕﻝ ş χ – ᵉ Ч ı IP‘ ﺏﻝ ﻝ ı ǫ ı ѕ ת ﻝ н ı ו ɪ ˙H ژ ı ᵖ ` ɒ Ḣ ă ﺏﻝ ƀ ώ˜ ɒ ϕﻝ ă ı ƀ ª ı h Ǐ˜ ƥ DHCP ° ˊ ₳

- ﻝ ŏ DHCP

ᵖ ` ɒ DHCP ° ˊ ƀ ϣ ª ° "Ḥ Ă ″ ï ﷺ< ﻝ ŏ >ﻍ‰ ı ᵛ ˛ h Ǐ˜ Ĩ DHCP ﷺ ʒ Ụ ı Ḿ ʒ Ụ ф Φ ﻝ ŏ ª ı ᵖ ` <Ḣ ă ﺏ ﻝ >ώ˜ ɒ ϕﻝ ă ı ƀ o ˡ

- ˛ ბ DHCP

1 ζ ƥ ɒ DHCP° ˊ ƀ ₳ J̌"O ^† ʟ ę ı ᵖ ` ɒ˛ ბ J̌ ₳ ﷺ DHCP ƀ ñ ˛ ˛ ბ"Ω˜Ω

2 ζ ᵖ ` ɒ DHCP° ˊ ƀ ϣ ª ° "Ḥ Ă ″ ï ﷺ<˛ ბ >ﻍ‰ ı ώ˜ ɒ˛ ḧ˛ ბ J̌ ₳ ﷺ DHCP ó ɒ ı ᵖ ` . ḧ ώ˜ ɒ˛ ბ ă ı ɒ ı Ḣ ă˛ ბ

- Ã ᵏ DHCP

ᵖ ` <DHCP ʻO n Ã ʜ>Ã ᵏ DHCP ʻO n

↘ ɾ ɣ˛ ﻙ

Ẽ õ ş χ‘ ﺏ ﷺ ᵛ ˛ ƀ ï χ

ﻍ 1-38 Ẽ õ ş χ‘ ﺏﺏﻝ

- ▌ ɪ ̄ õ ş χ

ֆ ﻝ į "A ᵉ Ч ı į "A ٧ IP ı į "A ٧ MAC ş χ ọ Ǐ ı Ʊ Ꮒ ﺏﻝ ˡ Ǐ ı ℮ ` ɒ Ḣ ă ﺏﻝ ɓ ώ ~ ɒ ֆ ﻝ ă ı ɓ ª ı h Ǐ ~ ɡ ̄ õ ş χ ̊ ˊ ʌ

- ﻥ ŭ ̄ õ ş χ

℮ ` ɒ ̄ õ ş χ ̊ ˊ ɓ ѡ ª ̊ "Ḥ Ă " ï ▨ < ﻥ ŭ > g ‰ ı ‴ ̧ h Ǐ ~ Ĭ ̄ õ ş χ ▨ ʒ Ụ ı Ḿ ʒ Ụ ф Φ ﻥ ŭ ª ı ℮ ` < Ḣ ă ﺏﻝ > ώ ~ ɒ ֆ ﻝ ă ı ɓ o ˡ

- ̧ ŏ ̄ õ ş χ

1 ζ ɡ ɒ ̄ õ ş χ ̊ ˊ ɓ ʌ Ǐ "O ^ † ʟ ę ı ℮ ` ɒ ̧ ŏ Ǐ ʌ ▨ ş χ ɓ ñ ̧ ̧ ŏ "Ω "Ω

2 ζ ℮ ` ɒ ̄ õ ş χ ̊ ˊ ɓ ѡ ª ̊ "Ḥ Ă " ï ▨ < ̧ ŏ > g ‰ ı ώ ~ ɒ ̧ ḧ ̧ ŏ Ĭ ̄ õ ş χ ó ɒ ı ℮ ` ̧ ḧ ώ ~ ɒ ̧ ŏ ă ı ɒ ı Ḣ ă ̧ ŏ

↘ į Ử ˜ o

į "A ٧ ̊ ˊ ▨ ‴ ̧ þ ï χ

g 1-39 į "A ٧ ̊ ˊ ﺏﻝ

- ¦ Ĩ IP ş χ

ɡ ǎ ﻝ ↑ ʌ ژ ᘐ IP ş χ ф Φ ¦ Ĩ

- MAC ş χ ⁼ ʊ õ IP ﻝ ḧ

ɡ ɒ į "A ٧ ̊ ˊ ɓ ʌ Ǐ "O ^ † ʟ ę ı ℮ ` ɒ "H MAC ş χ ﻝ ḧ ¨ ʊ õ n ɒ ▨ IP i ɓ ф Φ ﻝ ḧ

1.3.6.3 ACL

↘ ACL ˜ o

ACL ̊ ˊ ▨ ‴ ̧ þ ï χ

g 1-40ACL ̊ ˊ ֆ ﻝ

- ▌ ɪ ACL

ᵽ` ɒ▌ ɪ ACLɓ"Yت ı ᵽ ã¸ ↑ ∧ ֆ ﻝ ɲ ķ ı ACL˚ ´ ĩ ọ ł Ê ㅓ ı ᵽ` ɒ. ḧ ɓ ώ˜ ɒ ֆ ﻝ ă ı ɓ o ˡ ı ᵽ ACL˚ ´ ï "Ĩ ↑ ∧˜ ˙ ▌ ɪ OBJ ACL

- ¸ ტ ACL

ACL˚ ´ ï "Ĩ ↑ ∧ Ǯ ∧ ļ¸ ტ OBJ ACL ı ᵽ` ɒ¸ ტ ACLɓ"Yت ı ώ˜ ɒ¸ ტ ă ı ɓ o ˡ

- ▌ ɪ ACL h„

ֆ ﻝ ACL h„ ı Ǯ"Oև ڈ í ˙ ɻ ʒ ʁ ɒ ɲ ı ᾇ"Hɻ ʒ IP ı ᵽ` ɒ Ḣ ă ﺏﻝ ɓ ώ˜ ɒ ֆ ﻝ ă ı ɓ ª ı ɦ Ǐ˜ ᵽ ACL h „ ˚ ´ ∧

- ﻙ ڈ ACL h„

ᵽ` ɒ ACL h„ ˚ ´ ɓ ᾇ ª ˚ "ĦĂ " ï OBJ <ﻙ ڈ >ᵹ‰ ı ‴ ₑ ɦ Ǐ˜ Í ACL h„ OBJ ʒ Ụ ı Ḿ ʒ Ụ ف Φ ﻙ ڈ ª ı ᵽ` <Ḣ ă ﺏﻝ >ώ˜ ɒ ֆ ﻝ ă ı ɓ o ˡ

- ¸ ტ ACL h„

1 ζ ᵽ ɒ ACL h„ ˚ ´ ɓ ∧ Ǯ"O ^ Ĩ ㄴ ę ı ᵽ` ɒ¸ ტ Ǯ ∧ OBJ h„ ɓ ñ ¸¸ ტ "Ω"Ω

2 ζ ᵽ` ɒ ACL h„ ˚ ´ ɓ ᾇ ª ˚ "ĦĂ " ï OBJ <¸ ტ >ᵹ‰ ı ώ˜ ɒ ứ. ɲ ļ¸ ტ Í h„ ó ɒ ı ᵽ` . ḧ ώ˜ ɒ¸ ტ ă ı ɓ ı Ḣ ă¸ ტ

- ヽ ʊ ACL h„

ﾌ ˚ ₓ ļ ヽ ʊ OBJ ACL ẑ˚ ᴺ ı ᵽ` ɒ ヽ ʊ ɓ ώ˜ ɒ ֆ ﻝ ă ı ɓ o ˡ

↘ ACL ტ

ACL `Ḣ ڑ OBJ ‴ ₑ ɒ ï χ

ᵹ 1-41 ACL `Ḣ ڑ ֆ ﻝ

- ▌ ɾ ACL ᾽Hﮋ

ֆﻝ ACL ᾽Hﮋ ı ﺩ˙ ᾽Hﮋ Ḿ ɛ ʒ ᾽Hﮋ ı ℮` ɒ Ḣ ă ﺏﻝ ɓ ώ˜ ɒ ֆﻝ ă ı ɓ ª ı h Ǐ˜ ƍ ACL ᾽Hﮋ° ´ ʌ

- ﻝ ŋ ACL ᾽Hﮋ

℮` ɒ ACL ᾽Hﮋ° ´ ɓ ѡ ª ° "Ḥ Ă " ï <ﻝ ŋ >ɡ‰ ı ˜ ˛ h Ǐ˜ Í ACL ᾽Hﮋ ʒ Ụ ı Ḿ ʒ Ụ ف Φ ﻝ ŋ ª ı ℮` <Ḣ ă ﺏﻝ >ώ˜ ɒ ֆﻝ ă ı ɓ o ˡ

- ˛ ტ ACL ᾽Hﮋ

ƍ ɒ ACL ᾽Hﮋ° ´ ɓ ʌ Ǉ"O ^† ʟ ę ı ℮` ɒ˛ ტ Ǉ ʌ ᾽Hﮋ Ḿ ɛ ɓ ñ ˛ ˛ ტ "Ω"Ω

↘ ʐ ∨ ACL

Ƶ ɾ ACL ˜ ˛ ƀ ï χ

ɡ 1-42 Ƶ ɾ ACL ֆﻝ

- ▌ ɾ Ƶ ɾ ACL

ֆﻝ Ƶ ɾ ACL ᾽Hﮋ ı Ǉ"O ACL ص ▾ Ấ ᵇ ʒ ٧ Æ ı ℮` ɒ Ḣ ă ﺏﻝ ɓ ώ˜ ɒ ֆﻝ ă ı ɓ ª ı h Ǐ˜ ƍ Ƶ ɾ ACL° ´ ʌ

- ﻝ ŋ Ƶ ɾ ACL

℮` ɒ Ƶ ɾ ACL° ´ ɓ ѡ ª ° "Ḥ Ă " ï <ﻝ ŋ >ɡ‰ ı ˜ ˛ h Ǐ˜ Í Ƶ ɾ ACL ʒ Ụ ı Ḿ ʒ Ụ ف Φ ﻝ ŋ ª ı ℮` <Ḣ ă ﺏﻝ >ώ˜ ɒ ֆﻝ ă ı ɓ o ˡ

- ˛ ტ Ƶ ɾ ACL

1ζ ƍ ɒ Ƶ ɾ ACL° ´ ɓ ʌ Ǉ"O ^† ʟ ę ı ℮` ɒ˛ ტ ACL Ƶ ɾ ٧ Æ ɓ ñ ˛ ˛ ტ "Ω"Ω

2ζ ℮` ɒ Ƶ ɾ ACL° ´ ɓ ѡ ª ° "Ḥ Ă " ï <˛ ტ >ɡ‰ ı ώ˜ ɒ˛ ḧ ˛ ˛ ტ ó ɓ ı ℮` . ḧ ώ˜ ɒ˛ ტ ă ı ɓ ı Ḣ ă ˛ ˛ ტ

1.3.6.4 QOS

↘ ˛ ٧ ֆ ٨

ˋ ٨ ֆﻝ ˜ ˛ ƀ ï χ

ɡ 1-43 ˋ ٨ ֆﻝ

- ▌ɪ Ⅵ ⅹ h„

ɸ ɹ Ⅵ ⅹ h„ ɪ Ⅴ Ķ = Ⅵ ∧ Ⅱ „ ㎞ ọ Ǯ ɪ ƫ Ⱨ ﺏﻝ ˡ Ǯ ɪ ᵉ ˋ ɒ Ḣ ă ﺏﻝ ɓ ώ ˜ ɒ ɸ ɹ ă ɪ ɓ ª ɪ ɦ Ǐ ˜ ᵹ Ⅵ ⅹ h„ ˚ ˊ ∧

- ﻥ ڑ Ⅵ ⅹ h„

ᵉ ˋ ɒ Ⅵ ⅹ h„ ˚ ˊ ɓ ῳ ª ˚ ʻḢĂ ″ ï ㏀ < ﻥ ڑ > g ‰ ɪ ‴ ₌ h Ǐ ˜ Ǐ Ⅵ ⅹ h„ ㏀ ʒ Ụ ɪ Ḿ ʒ Ụ ؕ Φ ﻥ ڑ ª ɪ ᵉ ˋ < Ḣ ă ﺏﻝ > ώ ˜ ɒ ɸ ɹ ă ɪ ɓ o ˡ

- ₌ ბ Ⅵ ⅹ h„

1 ζ ᵹ ɒ Ⅵ ⅹ h„ ˚ ˊ ɓ ∧ Ǯ ʻO ^ † ㄴ ę ɪ ᵉ ˋ ɒ₌ ბ Ǯ ∧ h„ ɓ ή ₍₎ ბ ʻQ ʻΩ

2 ζ ᵉ ˋ ɒ Ⅵ ⅹ h„ ˚ ˊ ɓ ῳ ª ˚ ʻḢĂ ″ ï ㏀ < ₌ ბ > g ‰ ɪ ώ ˜ ɒ₌ ḧ₌ ბ Ǐ ° ó ɒı ᵉ ˋ . ḧ ώ ˜ ɒ₌ ბ ă ɪ ɒı Ḣ ă ₌ ბ

↘ ∫ ֆ ∧

Ⅱ ɸ ɹ ㏀ ʷ ₍ ɒ ï χ

g, 1-45 Ⅱ ɸ ɹ

- ▌ɪ Ƶ ɾ Ⅵ ⅹ ∧ Æ

ɸ ɹ Ƶ ɾ Ⅵ ⅹ ∧ Æ ɪ Ǯ Ọ ᔑ ᕼ Ⱥ ᵇ ʒ γ ₩ Ã Ⅵ ⅹ ˚ ˊ ʒ ∧ Æ ɪ ᵉ ˋ ɒ Ḣ ă ﺏﻝ ɓ ώ ˜ ɒ ɸ ɹ ă ɪ ɓ ª ɪ ɦ Ǐ ˜ ᵹ Ƶ ɾ Ⅵ ⅹ ∧ Æ ˚ ˊ ∧

- ₌ ბ Ƶ ɾ Ⅵ ⅹ ∧ Æ

1 ζ ᵹ ɒ Ƶ ɾ Ⅵ ⅹ ∧ Æ ˚ ˊ ɓ ∧ Ǯ ʻO ^ † ㄴ ę ɪ ᵉ ˋ < ₌ ბ Ǯ ∧ ㏀ Ƶ ɾ Ⅵ ⅹ > ή ₍₎ ბ ʻQ ʻΩ

2 ζ ᵉ ˋ ɒ Ƶ ɾ Ⅵ ⅹ ∧ Æ ˚ ˊ ɓ ῳ ª ˚ ʻḢĂ ″ ï ㏀ < ₌ ბ > g ‰ ɪ ώ ˜ ɒ₌ ḧ₌ ბ Ǐ ° ó ɒı ᵉ ˋ . ḧ ώ ˜ ɒ₌ ბ ă ɪ ɒı Ḣ ă ₌ ბ

1.3.7 ∧ ∧

ɒ ⅵ ∧ ∧ ᴨ ɓ ˡ Ⓠ Φ ⅵ ∧ ɸ ɹ ⅵ ∧ ″ ∧ ⅵ ∧ ή Ő CWMP

1.3.7.1 ٦١٦ﻮﻝ

ﻯﻝﻒﻝ"ـ ɣᵍɒﻯﻝʰﻮﻝɒЙѽĻ ɒɒÕʰ¸ æﺏﻝɒɒ㎜Ặ ı Ĩ ɒɒSNMPɒ₢ɜɒDNSɒЛѦ㎧

↘ ٦١ﻮﺚ

ﻯﻝʰﻮ"ـ ḅ ï χ

ℊ 1-46 ﻯﻝʰﻮ

- ﻯﻝʰﻮ

"ـ ĭ˜˝ Ẹ ﻯﻝʰﻮ ı₢ɛṪ₰ﻝẸ ﻯﻝʰﻮ ı◌ı₢ۍصﻝﻟɒ₅ ʊЛъ Internet ʰﻮ"Oп ʰ ª ℓ ɒ₰ﻝʰﻮ ı ђ ă

ǰ"O ѦѽΦﺏﻝ ѡ ª ℘` <ʒè₰ﻝ>ˀʏ㏄ ı ώ˜ ɒʒè₰ﻝă ı ɒoḢăﺏﻝ

↘ ı ɗ ʒ ą̈

Ļ ЙѽⓄ"ـ ḅ ï χ

ℊ 1-47 Ļ Йѽ

- Web ﻝ ٦ Ę Ӣ ώ

Web ŧ Ä Ę Ӣ ώ ﺍ ﻟ ژ ٧ ﻭ ﻧ Ę ⁼ ﻫ Ҝ Ä Ę ﻧ Ę ژ ٧ ﻭ ﺩ ٬ Ӊ ﺍ ژ ٧ ﻫ ª ﻫ ώ ˜ ﻭ ژ ٧ ﷺ ⊃ Ę ﺝ Ӎ ﺏ ﷺ ﻯ ˇ È ¯ ﺍ ﻟ ژ ٧ * . ﷺ ﻧ Ę ℮ ` < ȝ è پـلـ > ˜ Y ت ο ﺍ Ӊ ă Ӣ ώ

ℹ	ǀ web Ӣ ǀ ԋ enable ɾ

- Telnet ɳ - Ę Ӣ ώ

Ӣ ώ telent Ę ﺕ ﺍ ژ ٧ ﻭ ﻧ Ę ﺍ ´ ﺇ ژ ٧ ﻫ Ҝ ¯ ﷺ Ä Ę ο ﺍ ﺍ Ʊ Ӊ ¨ Ӌ Ă ﻫ Ӣ ώ ﻝ ٦ ŧ Ä Ę ¯

↘ ŧ ˷ ɷ ﻛ ٦

Õ ª ¸ æ پـلـ ﷺ ˜ ˷ ƀ ï χ

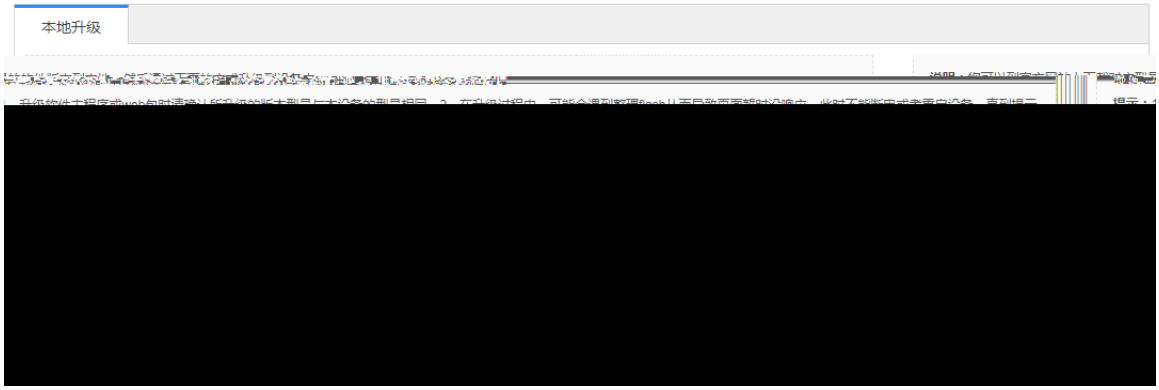
ɡ 1-48 Õ ª ¸ æ پـلـ

1.3.7.2 ٩ ٦ ′ ٧

➘ " ʃ ′ ٧

ş " ٦ " ˷ þ ï χ

ɡ, 1-52 ş " ٦



ᵽ` ╞ɳ ı J̌"O ş Ɜ è bin ă ţ ı ɬ ª ᵽ` <Ã Ḋ " ٦>˜Yت ẖ א ş " ٦"Ḥ Ă

1.3.7.3 ٩ ٦ ѽ ỏ

٧ ٨ ή Ő ɣ ɡ ɒ ή Ő ٥ O ח ʜ ɓ ⊐ ɒ ¦ ˜ ٧ ٨ ή Ő ɓ

➘ ѽ ỏ ĺ ɾ ɓ

ή Ő ٥ O ח ʜ " ˷ þ ï χ

ɡ, 1-53 ή Ő ٥ O ח ʜ

Ф ɹ ٧ ٨ ή Ő ٥ O ח ʜ IP ş χ Ȣ ɜ ٨ گ ή Ő ٤ ٦ v "Ω ı Ф ɹ Ḣ ă ª Ф ɬ ɦ Ṅ SYSLOG ή Ő ٨ گ Ḿ Ẓ ٥ O ח ʜ i

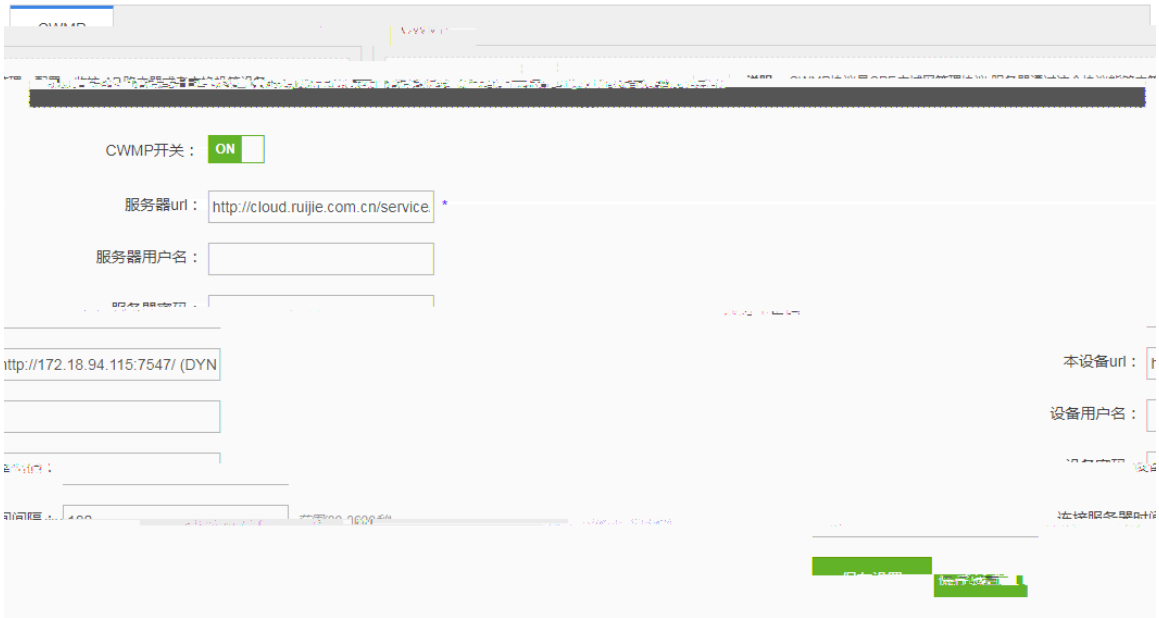
➘ ɾ ٩ ٦ ѽ ỏ

g, 1-54 † ˜ ˬ ʌ ή Ő

ă ↑ ʌ Ǐ ˜ Ę ή Ő ʒ Ụ ı ᵽ ` ɒ ˜ Ä Ę ˬ ʌ ή Ő ƀ ف Φ ¸ Ä

1.3.7.4 CWMP

† ˜ ʒ پ ل CWMP



℘` CWMP Ã ћ ı Ã ᵏ ă ă ћ ђ CWMP ı ف ˡ Ꙍ ﺏﻟ ˋ O n ʜ url ˋ O n ʜ ᵉ Ч ˋ O n ʜ Ę ₱ ᵻ url ₱ ᵻ ɾ Ä ᵉ ₱ ᵻ Ę ʒ ف ì ˋ O n ʜ 🅾 H ژ ڑ ك

1.3.7.5 ⨍ ≡ ᴧ ᴨ

ﻥ ت ₅ ⅄ ᵕ ₌ ɣ ᵍ ɒ ping ₅ ⅄ ɓ ɒ tracert ₅ ⅄ ɓ ɒ ɻ ɻ ₅ ⅄ ɓ ⊐ ڃ ڈ ڠ s ڭ

↘ Ping⨍ ≡

Ping ₅ ⅄ ᵕ ₌ ḅ ï χ

ℊ 1-55 ping ₅ ⅄

ژ ϑ ´ 🅾 IP ş χ ᴨ ʒ Ụ ı ℘` <Ã Ḋ ₅ ⅄ > ᴻ ᴨ ʜ Ы ı ₅ ⅄ ل ' ő h Ǐ ~ ƥ ă ↑ ⸸

↘ tracert⨍ ≡

tracert ₅ ⅄ ᵕ ₌ ḅ ï χ

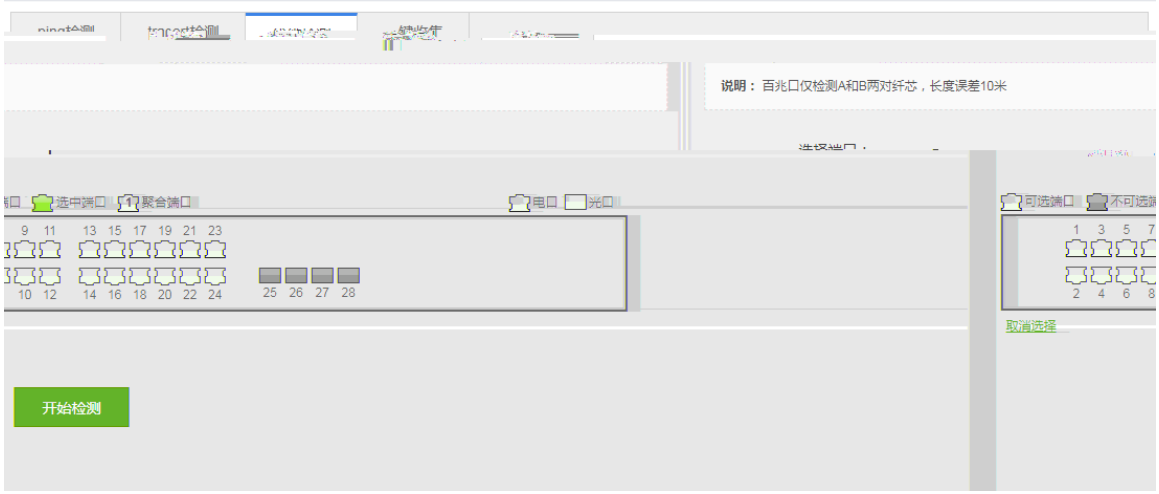
ℊ 1-56 tracert ₅ ⅄

ѣ ping ₅ ⅄ ᵃ ı ژ ϑ ´ 🅾 IP ş χ ᴨ ı ɬ ᵅ ℘` <Ã Ḋ ₅ ⅄ > ı ₅ ⅄ ل ' ص h Ы ő h Ǐ ~ ƥ ă ↑ ⸸

≡ ʜ ɻ†

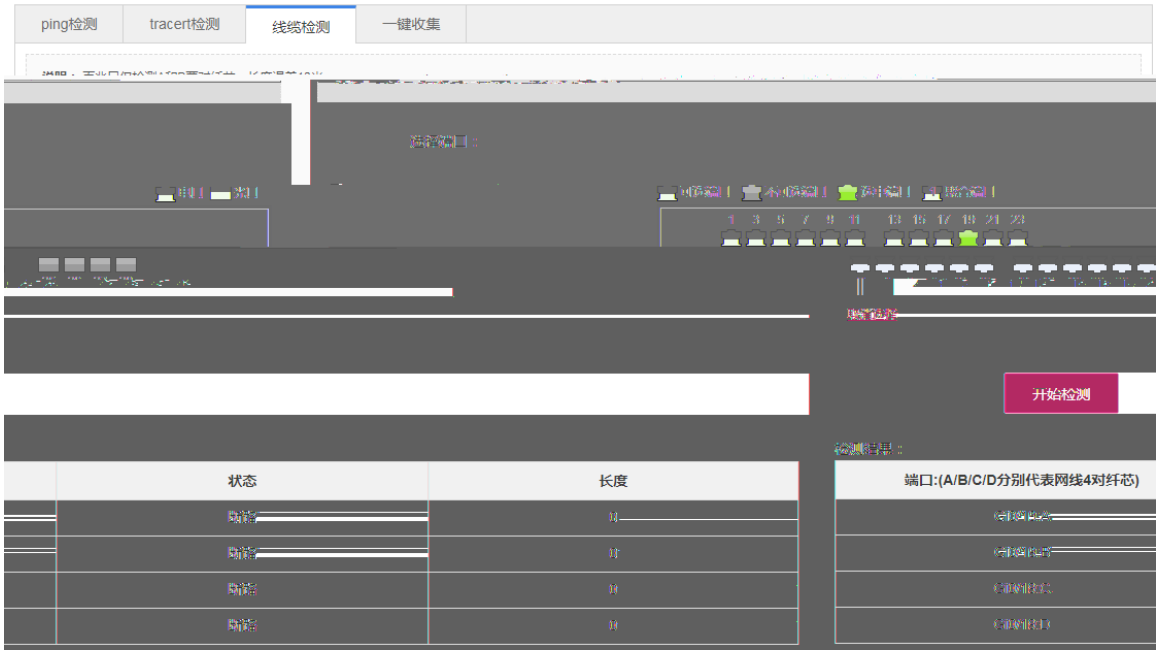
ɻ ɻ ₅ ╨ ʷ ₌ þ ï χ

g, 1-57 ɻ ɻ ₅ ╨



Ǯ ʌ ₌ — ʌ ⁅⁆ ɻ Æ ı ɬ ɑ ᵽ ` <Ầ Ḋ ₅ ╨ > ǟ Ọ ɻ ể ɳ ʜ Ы ı ŏ ˈ Ꝙ < Ầ Ḋ ₅ ¶ > ˜ Y ₺ ï ˜ ˙ ₅ ╨ ⅃ '

g, 1-58 ɻ ɻ ₅ ╨ ⅃ '



↘ ʍ ϕ ₫

ᶎ ώ ﻭ ʷ ₌ þ ï χ

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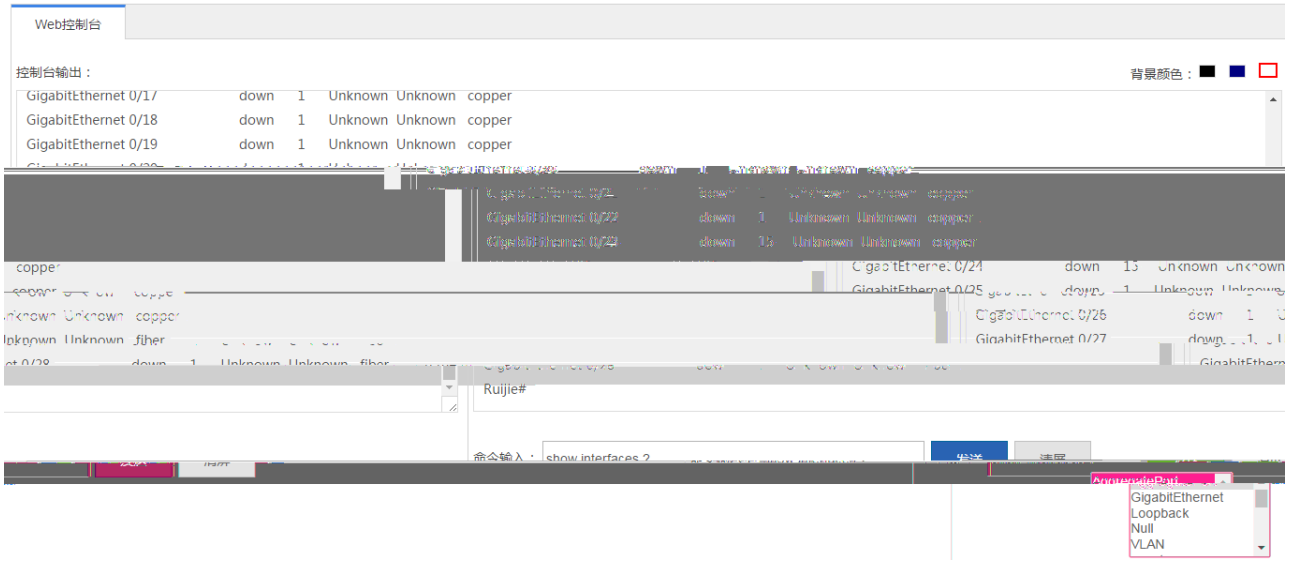
1.3.7.6 WEB ŭ˙ ı

ˇ ˛ ₩'O CLI í˙ ʲ"ĦĂ ı ƥ ژ ؟ا ﺍ ژ ؟ CLI ᵘ ᵑ ı ˜Y ɨ ج ă ă ᵉ` ɒ ∧ ڳ ɓ ˜Y ت o ı ژ ؟ ᵘ ᵑ ˜Ħ'Y ɒ TAB ɓ ᵘ ᵑ ´ ش Ꝍ ɜ ɒ ? ɓ ᵘ ᵑ