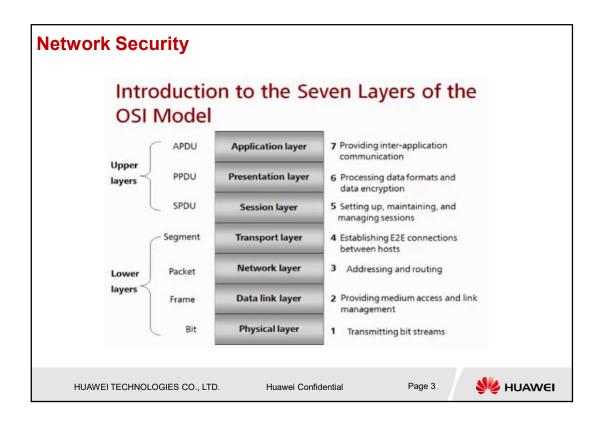
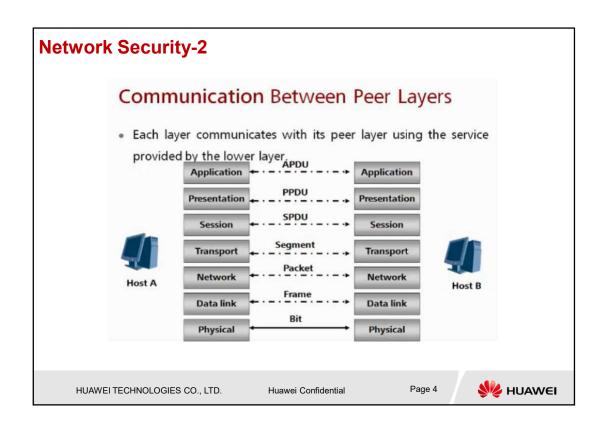
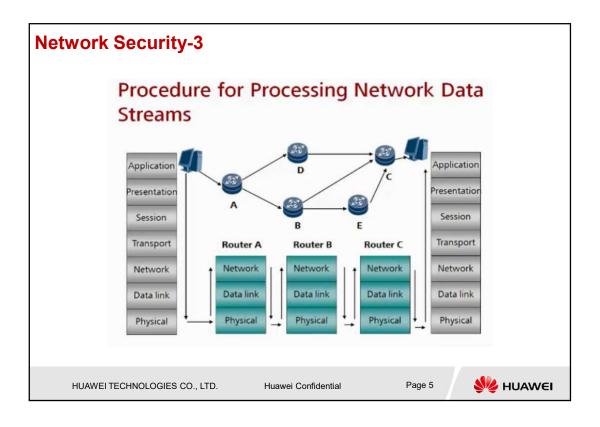
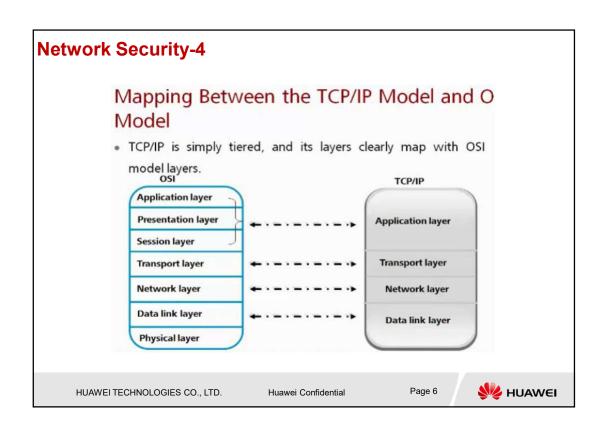


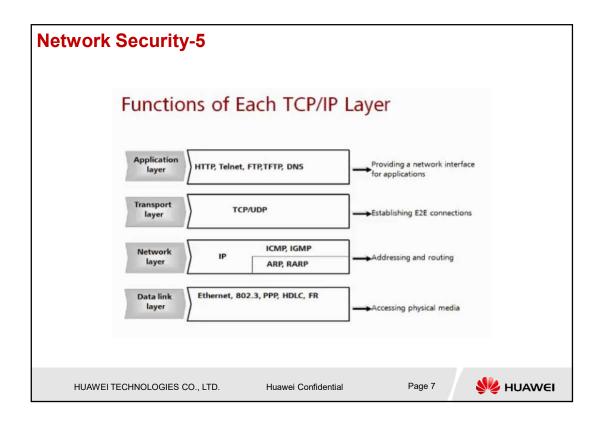
Subjects Page Network Security 3 Firewall 13 NAT 26 HUAWEI TECHNOLOGIES CO., LTD. Huawei Confidential Page 2 ★ HUAWEI

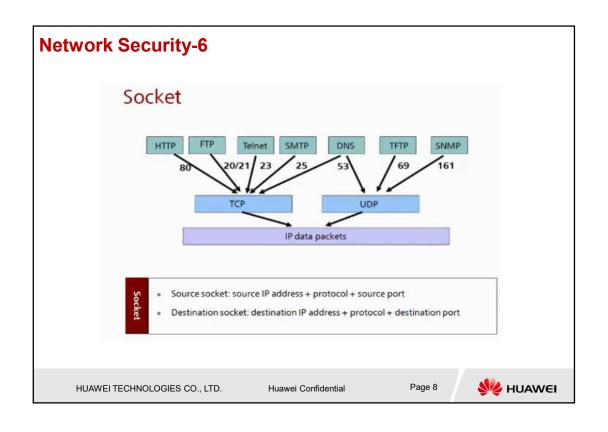


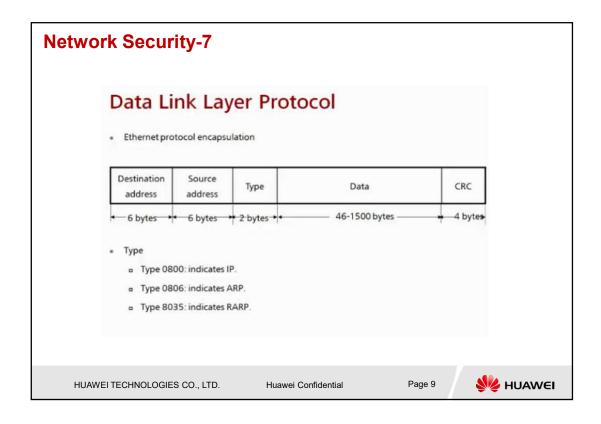


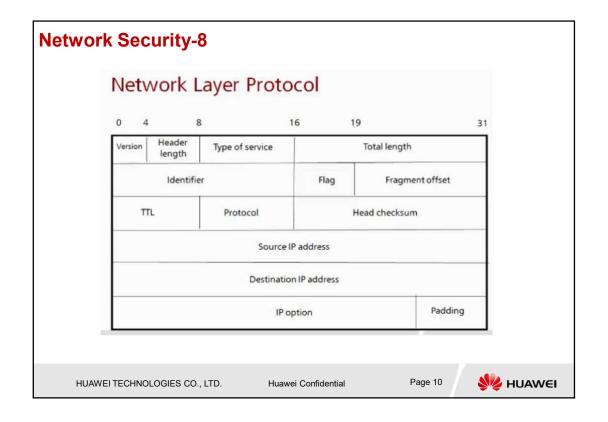


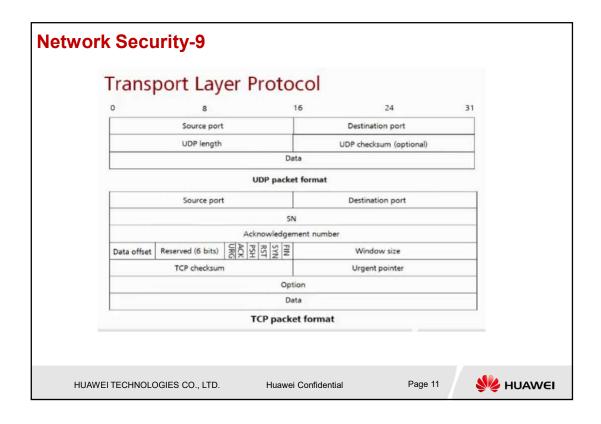


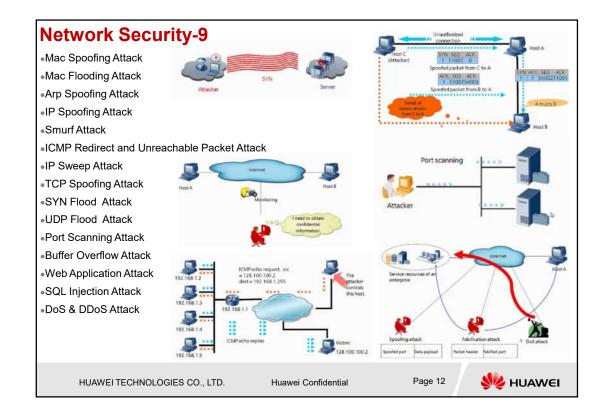


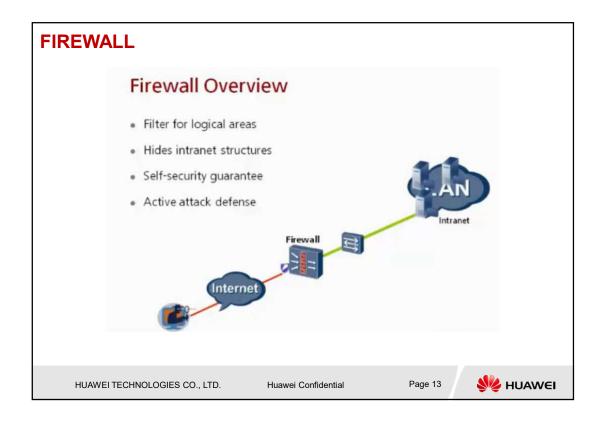


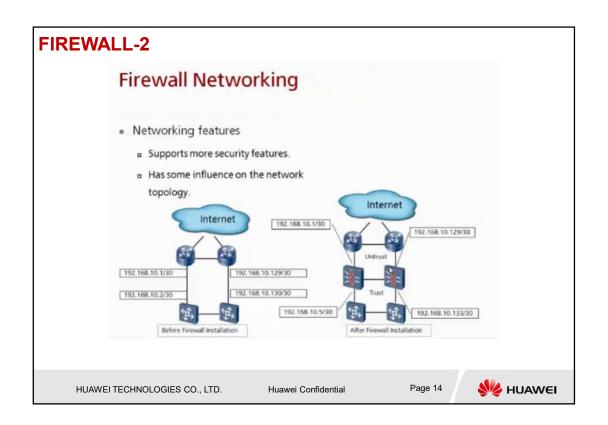


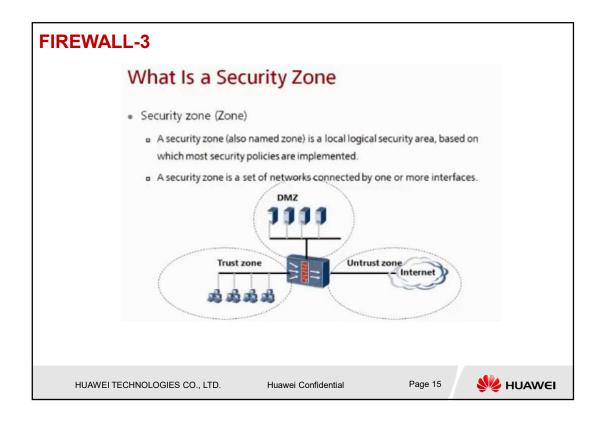


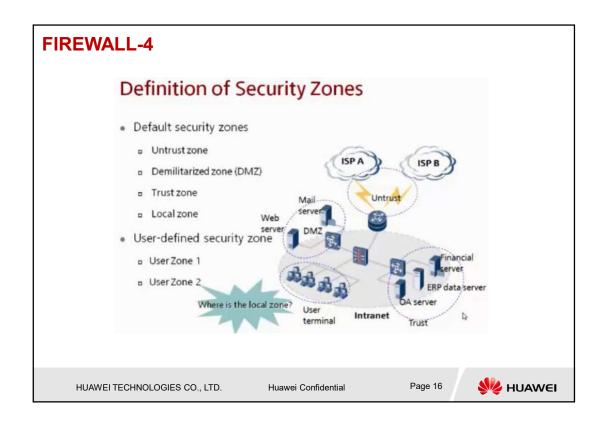


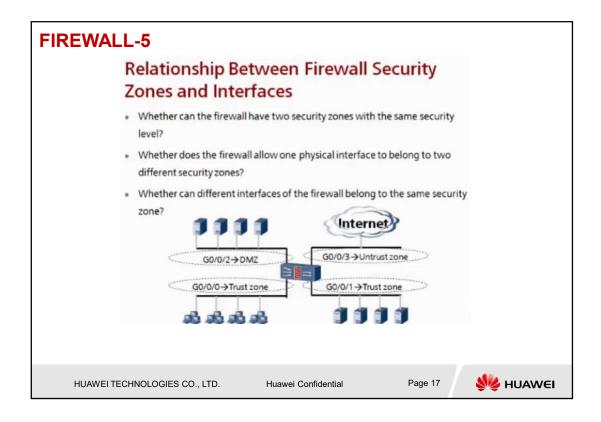


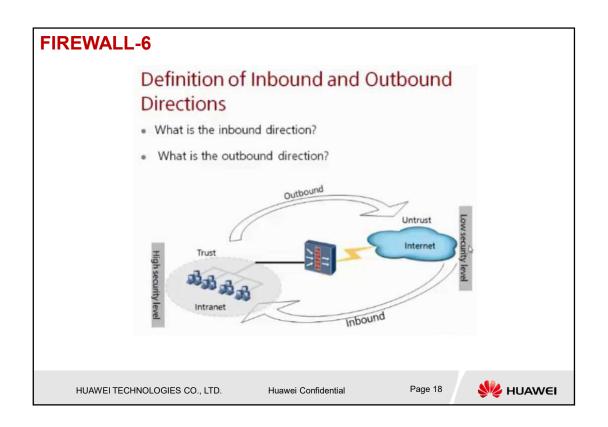


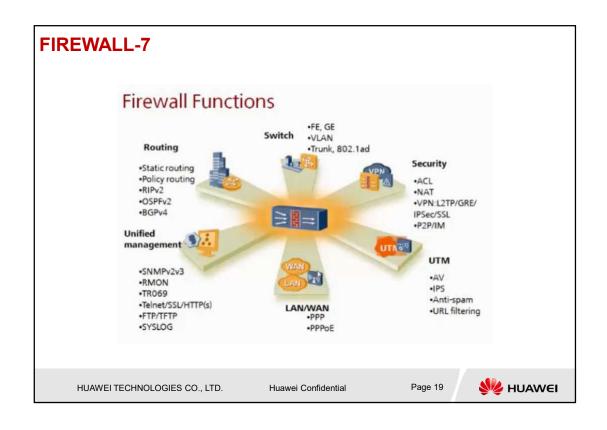


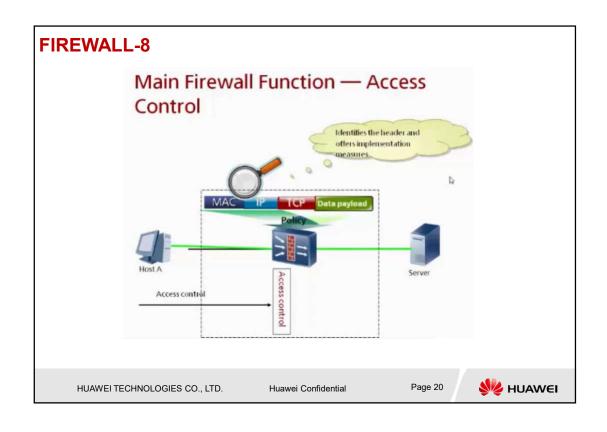


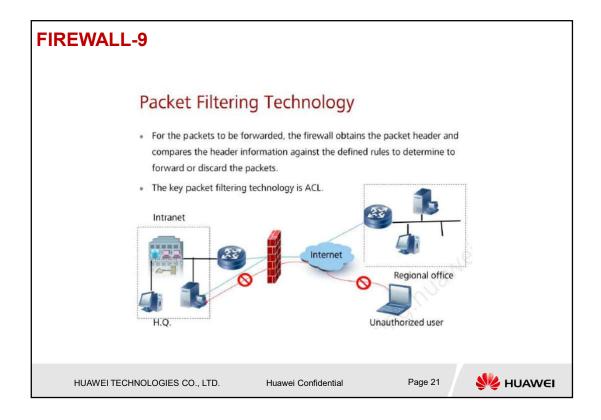


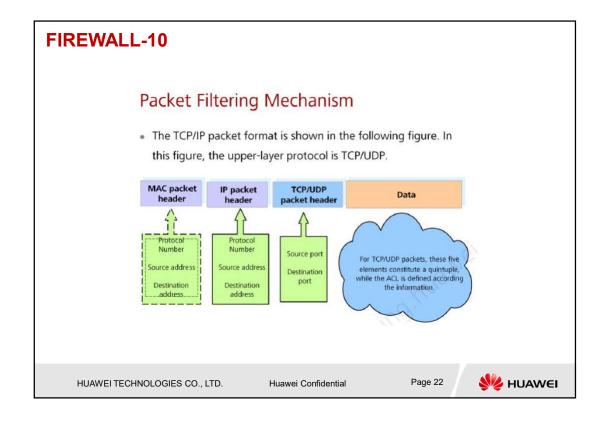


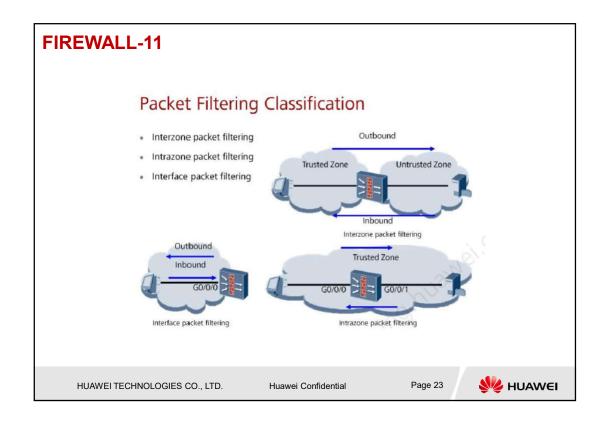


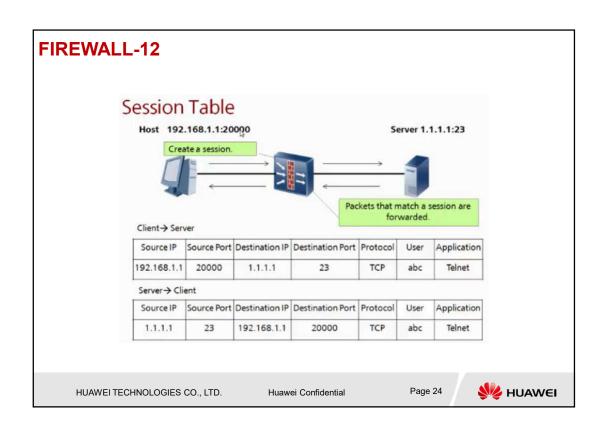












FIREWALL-13

Checking the Session Table

display firewall session table

<sysname> display firewall session table

Current Total Sessions : 2 telnet VPN:public --> public 192.168.3.1:2855-->192.168.3.2:23 http VPN:public --> public 192.168.3.8:2559-->192.168.3.200:80

display firewall session table verbose

<sysname> display firewall session table verbose
Current Total Sessions: 1
http VPN:public --> public ID: a48f3648905d02c0553591da1
Zone: trust--> local TTL: 00:20:00 Left: 00:19:56
Output-interface: InLoopBack0 NextHop: 127.0.0.1 MAC: 00-00-00-00-00<--packets:3073 bytes:3251431 --> packets:2881 bytes:705651
128.18.196.4:1864--> 128.18.196.251:80 PolicyName: test

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Confidential

Page 25



NAT

Background Information

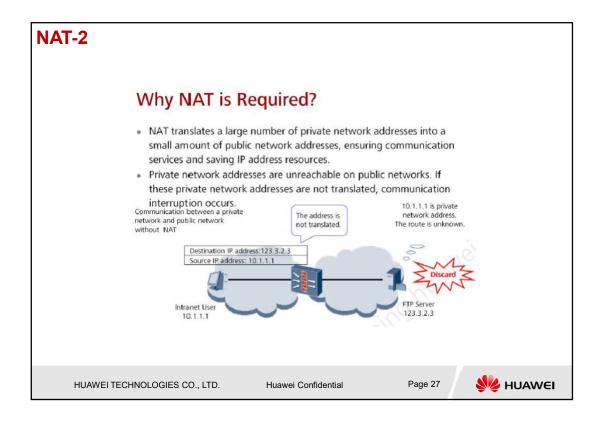
- IPv4 addresses are being depleted.
- IPv6 addresses cannot immediately replace IPv4 addresses in a large scale.
- To extend the IPv4 lifespan, various technologies emerge continuously. NAT is one of the technologies.

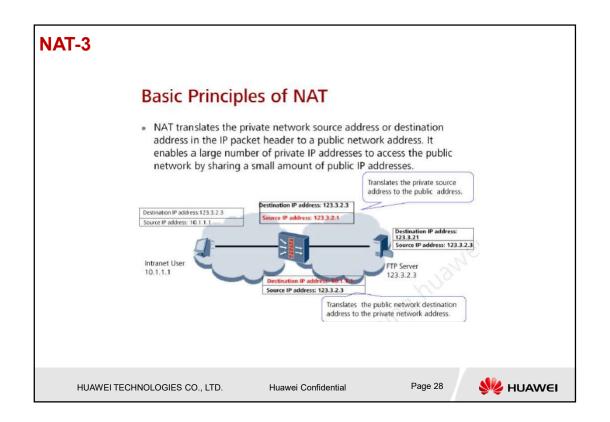


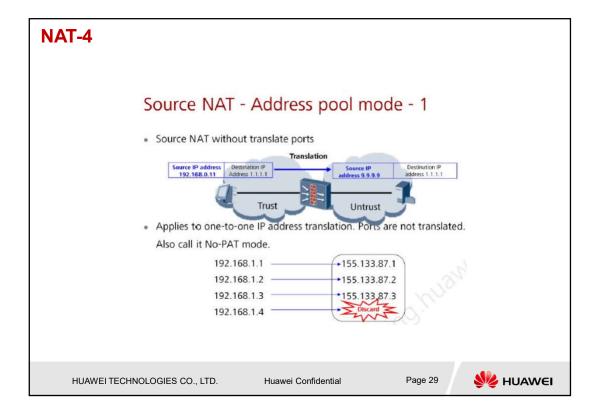
HUAWEI TECHNOLOGIES CO., LTD.

Huawei Confidential







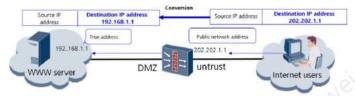


Source NAT - Address pool mode - 2 • Source NAT with translate ports Translation Source IP address Source port Notation IP address 1.1.1.1 Trust Untrust • Maps different private network addresses to different ports of a public network address and applies to multiple-to-one IP address translation. 192.168.1.1 192.168.1.2 192.168.1.3 155.133.87.1 1711 192.168.1.3 155.133.87.1 1711 192.168.1.3 155.133.87.1 1711 192.168.1.1 Page 30

NAT-6

NAT Server-Internal Server

 The NAT Server function uses a public network address to represent the internal server address.



 On the firewall, a dedicated public network address is configured for the internal server to represent the private network address. For Internet users, the Internet address configured on the firewall is the server address.

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Confidential

Page 31



NAT-7

Firewall Source NAT Configuration (CLI)

- · Configure an interzone access policy.
 - Configure the source address as the network segment 192.168.0.0/24. (omitted the detailed procedures)
- Configure a NAT address pool.

[USG6600] nat address-group 1

[USG6600-nat-address-group-1] section 202.169.10.2 202.169.10.6

· Configure a NAT outbound policy.

[USG6600] nat-policy

[USG6600-policy-nat] rule name nat1

[USG6600-policy-nat-rule-nat1] source-zone trust

[USG6600-policy-nat-rule-nat1] destination-zone untrust

[USG6600-policy-nat-rule-nat1] source-address 192.168.0.024

[USG6600-policy-nat-rule-nat1] action nat address-group 1

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Confidential



NAT-8

Firewall NAT Server Configuration (CLI)

Configure the interzone packet filtering policy.

[USG] security-policy

[USG -policy-security] rule name p1

[USG -policy-security-rule-p1] source-zone untrust

[USG -policy-security-rule-p1] destination-zone dmz

[USG -policy-security-rule-p1] destination-address 192.168.20.2 32

[USG -policy-security-rule-p1] service http

[USG -policy-security-rule-p1] action permit

[USG -policy-security] rule name p2

[USG -policy-security-rule-p2] source-zone untrust

[USG -policy-security-rule-p2] destination-zone dmz

[USG -policy-security-rule-p2] destination-address 192.168.20.3 32

[USG -policy-security-rule-p2] service ftp

[USG -policy-security-rule-p2] action permit

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Confidential





THANK YOU

www.huawei.com

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Confidential

