

IBM

IBM Security Network Active Bypass

Setting link speed



This is a self-running demonstration that shows you how to complete a task. Controls are available at the bottom of the screen.

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Objectives

When you complete this module, you will be able to:

- Describe the appropriate link speed settings on the IBM Security Network Active Bypass unit
- Set the link speed on the IBM Security Network Active Bypass unit



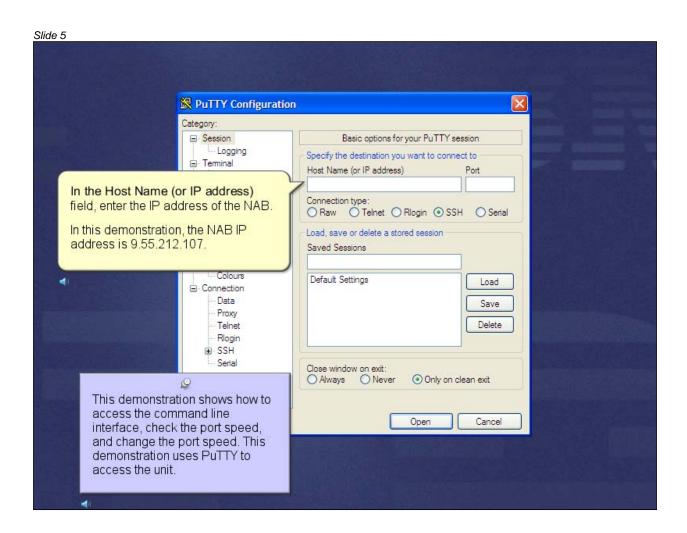
Connecting to the Network Active Bypass unit

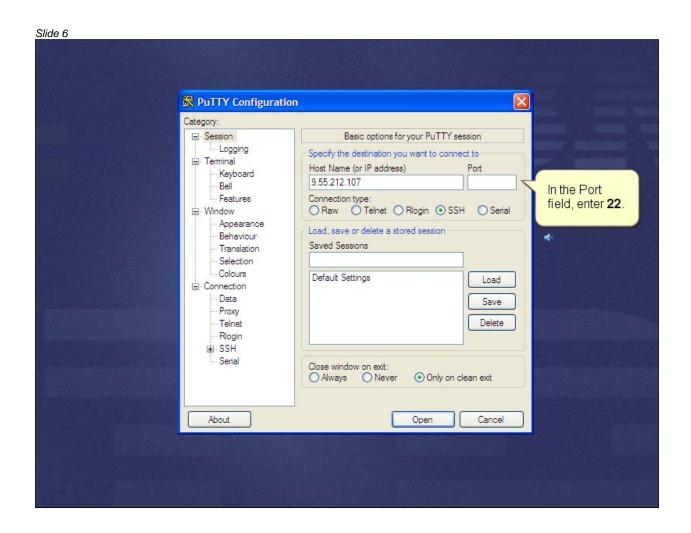
- You can only set the link speed and duplex setting by using command line parameters
- You can access the command line interface for the Network Active Bypass (NAB) unit in one of two ways:
 - Through a serial terminal emulator using the Console port
 - Through an SSH remote shell emulator using the management port (22)
- After you connect, you use the administrator account to configure the NAB unit

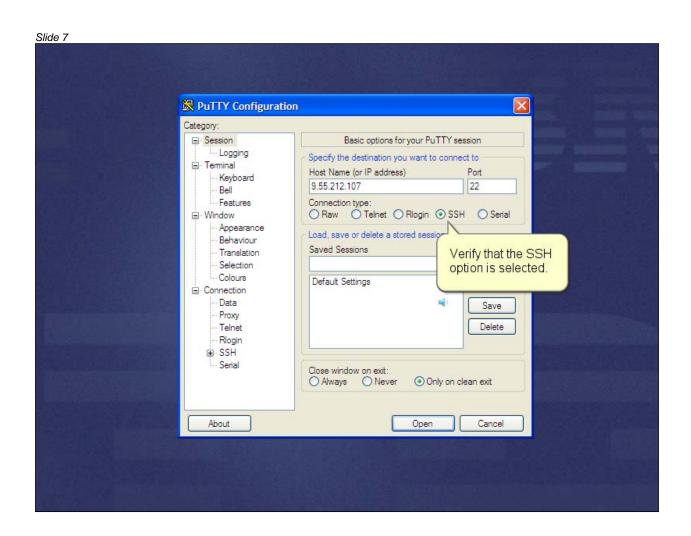


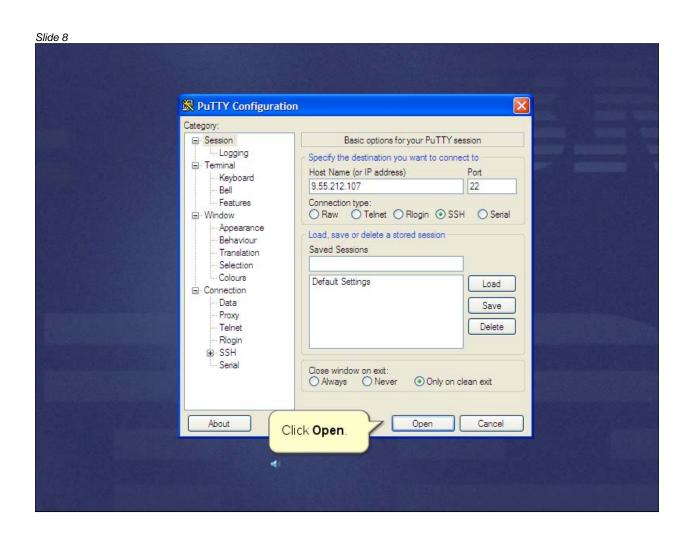
Link speed settings

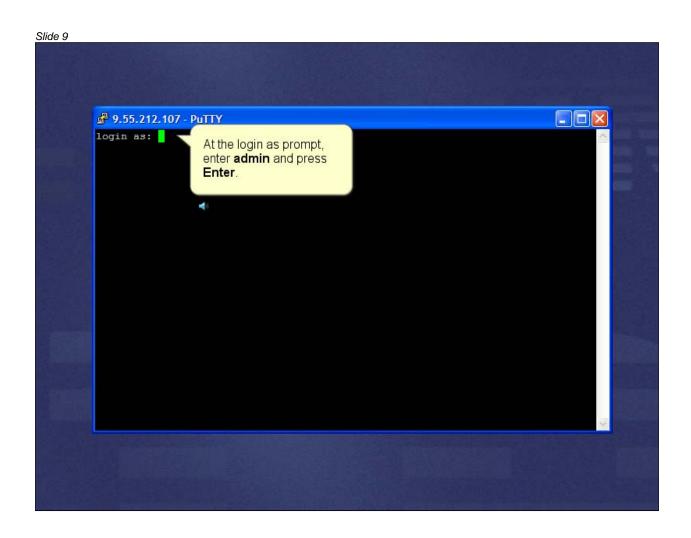
- The NAB unit has 4 segments consisting of 16 ports
- If all devices connected to the NAB unit are 1 Gb devices, set the NAB and connected devices to auto-negotiation
- If connected devices support 10/100 Mb segments, set the NAB and connected devices to 10/100 Mb full duplex
- By default, all NAB ports are set to auto-negotiation

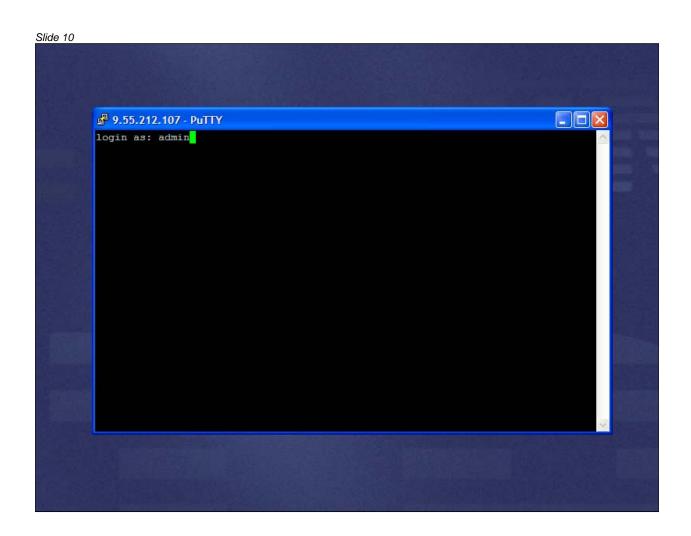




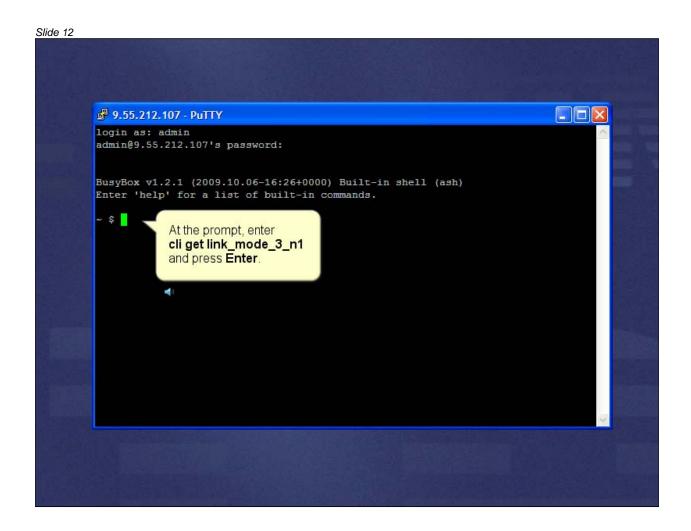


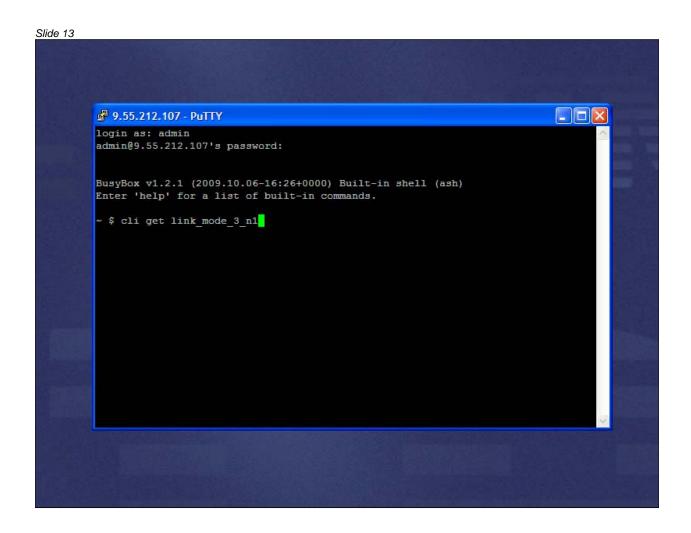


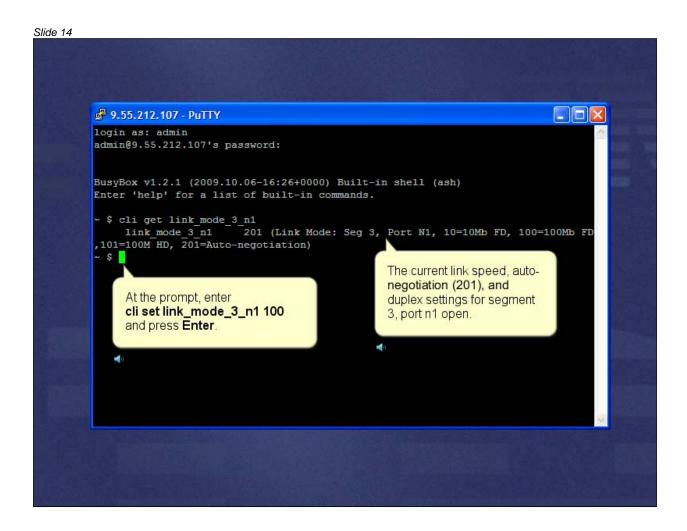


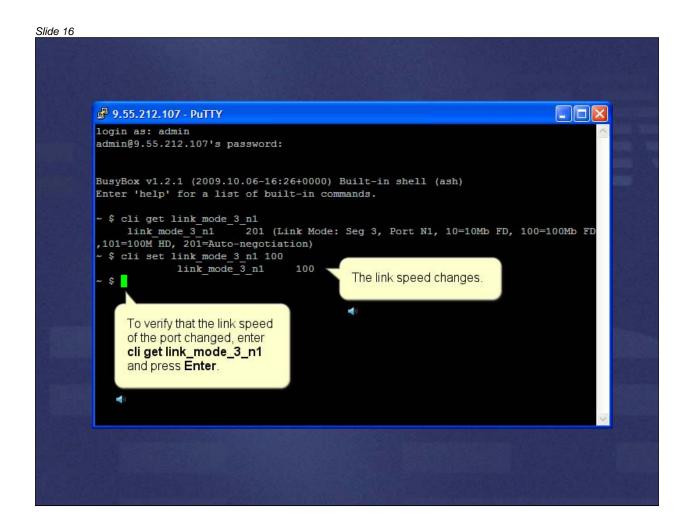












```
### 9.55.212.107 - PuTTY

login as: admin
admin@9.55.212.107's password:

BusyBox v1.2.1 (2009.10.06-16:26+0000) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

- $ cli get link mode 3 n1
link mode 3 n1 201 (Link Mode: Seg 3, Fort N1, 10=10Mb FD, 100=100Mb FD, 101=100M HD, 201=Auto-negotiation)

- $ cli set link mode 3 n1 100
link mode 3 n1 100

- $ cli get link_mode 3 n1

- $ cli get link_mode 3 n1
```

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Slide 18
                                                                                    ₽ 9.55.212.107 - PuTTY
         login as: admin
         admin@9.55.212.107's password:
         BusyBox v1.2.1 (2009.10.06-16:26+0000) Built-in shell (ash)
         Enter 'help' for a list of built-in commands.
         $ cli set link mode 3 n1 100
           $ cli set link_mode_3_n1 100

$ cli get link_mode_3_n1
link_mode_3_n1
link_mode_3_n1 100 (Link Mode: Seg 3, Port N1, 10=10Mb FD, 100=100Mb FD
          ,101=100M HD, 201=Auto-negotiation)
           $
                                                    Verify that the port speed changed
                                                   from auto-negotiation (201) to
              To close the command line
                                                    10/100 Mb full duplex (100).
              interface, at the prompt, enter
              exit and press Enter.
```



Further reference

For more information about setting the link speed for the ports on the Network Active Bypass unit, see <u>TechNote 1437281</u>

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