

# Amenazas y vulnerabilidades

## Módulo 13

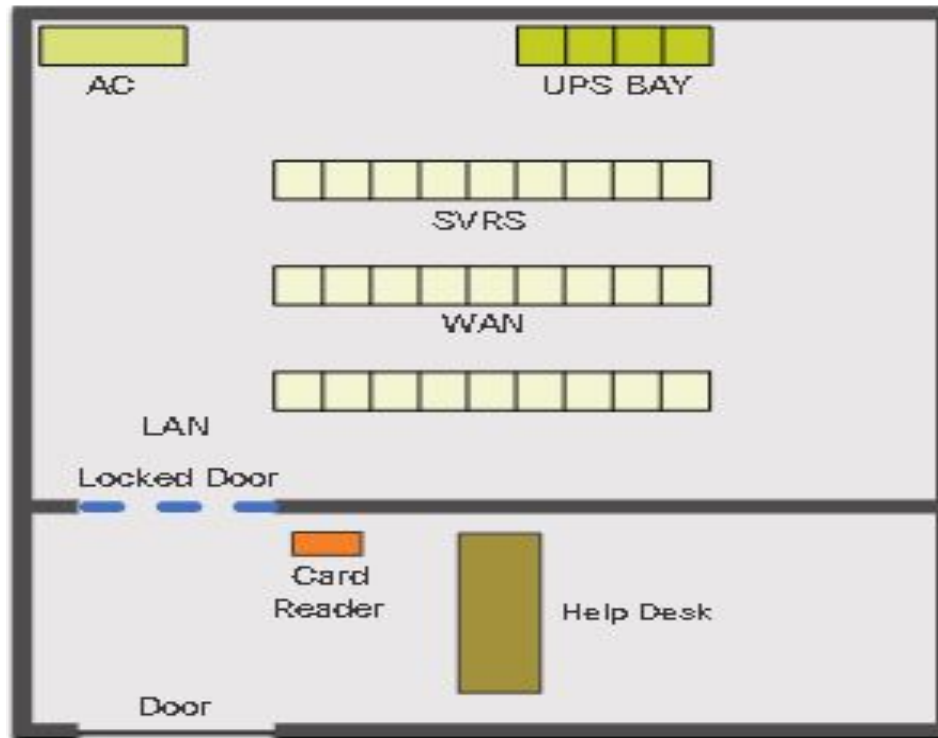
# Tipo de vulnerabilidades

Módulo 13



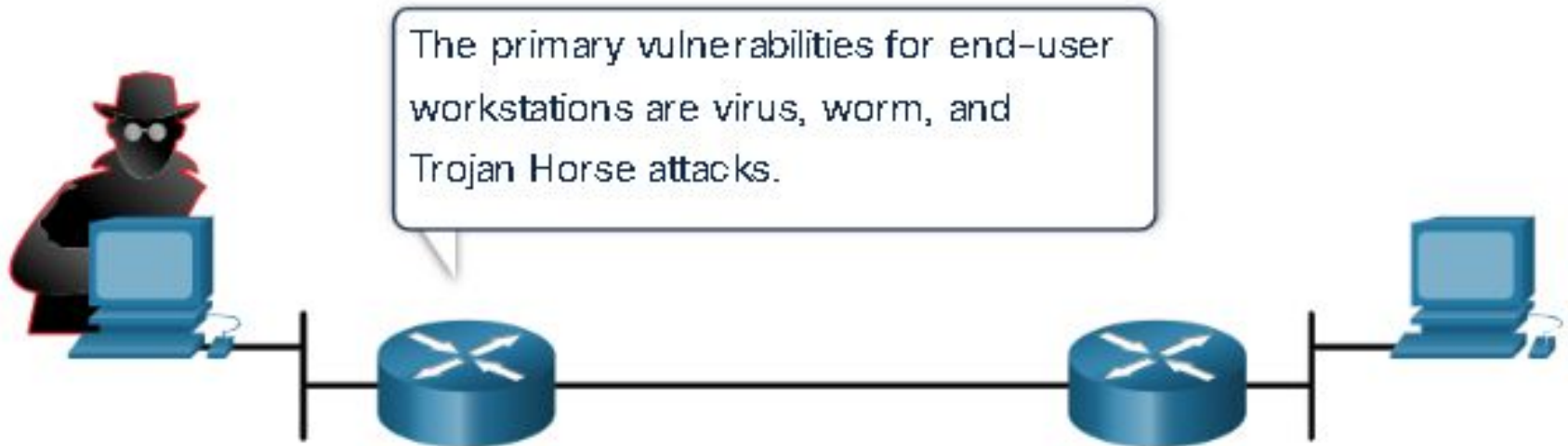
Hay tres vulnerabilidades o debilidades principales: política tecnológica, de configuración y de seguridad. Las tres fuentes de vulnerabilidades pueden dejar una red o dispositivo abierto a varios ataques, incluidos ataques de código malicioso y ataques de red.

# Seguridad física

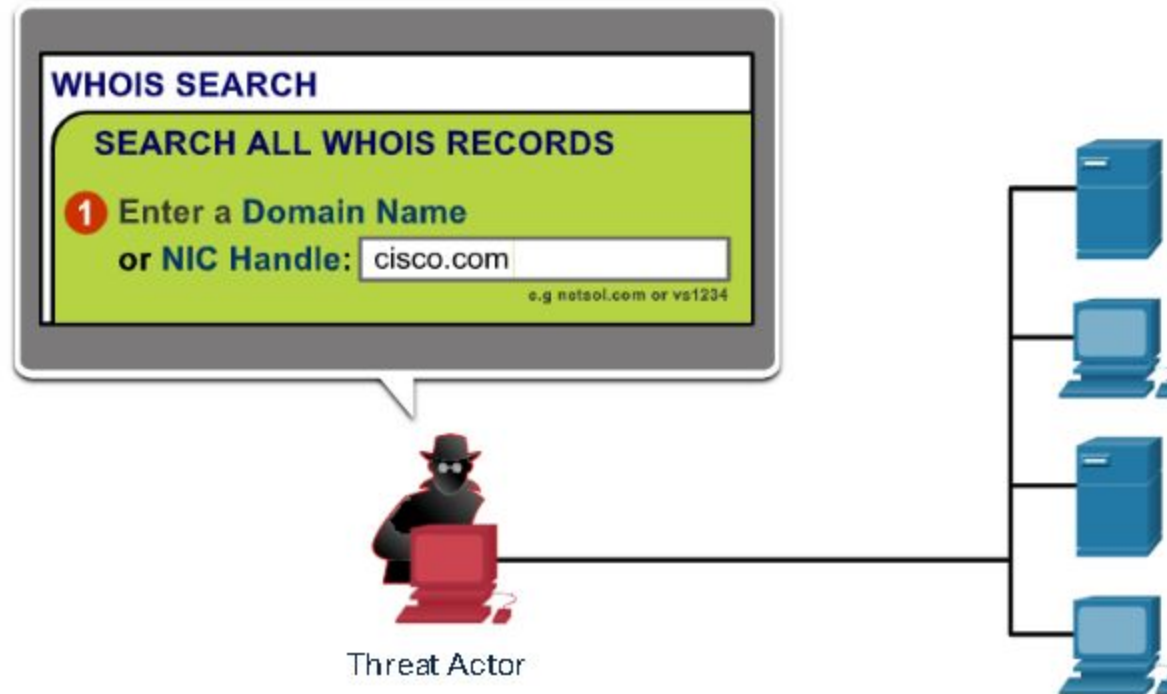


# Ataques de red

# Tipos de malware

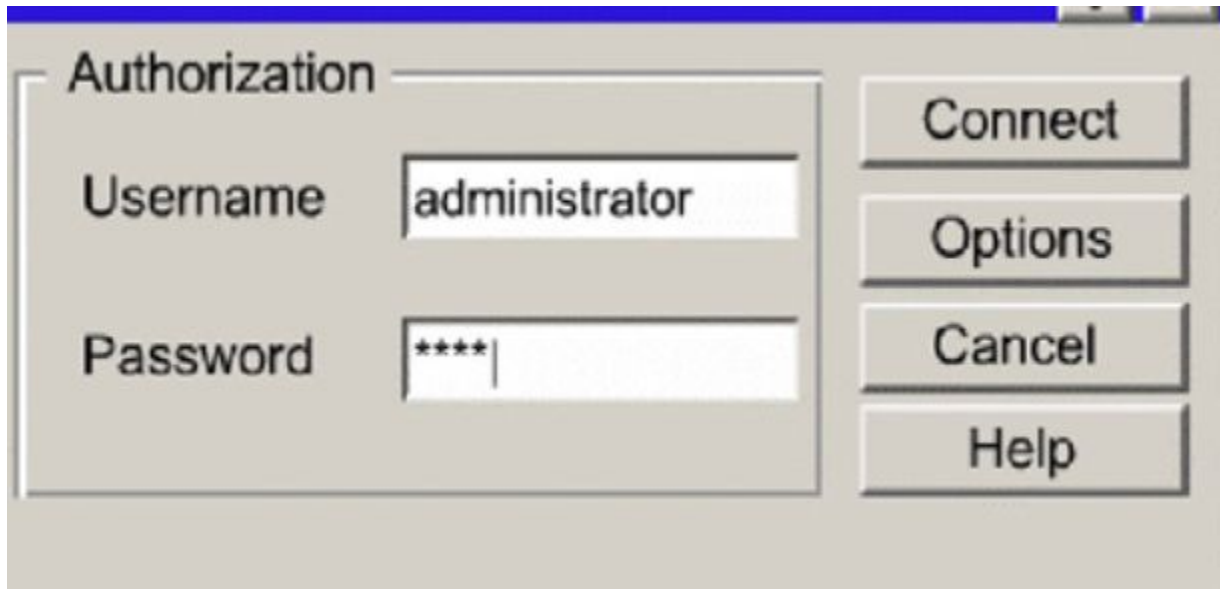


# Ataques de reconocimiento



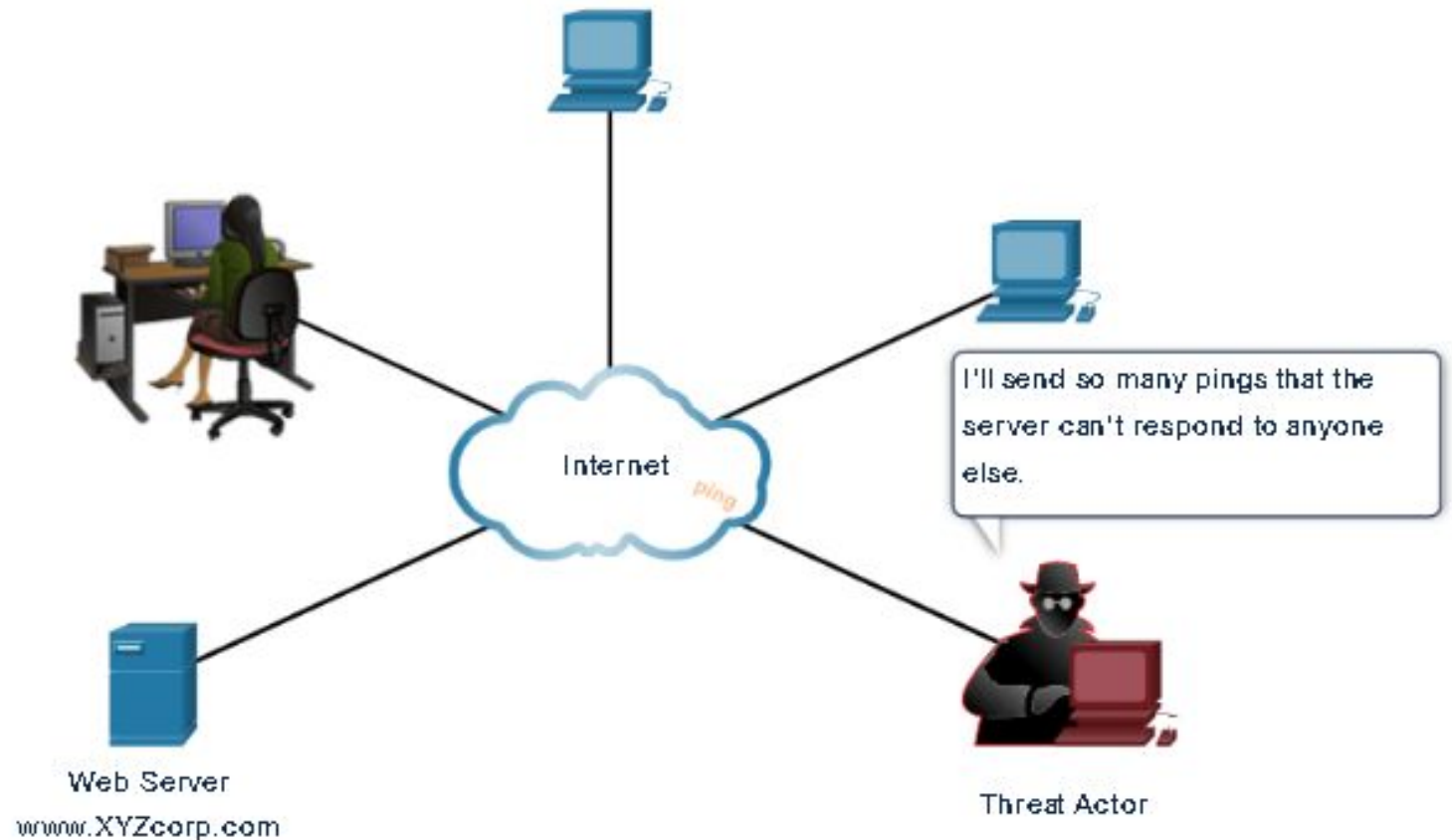
Threat Actor

# Ataques de acceso



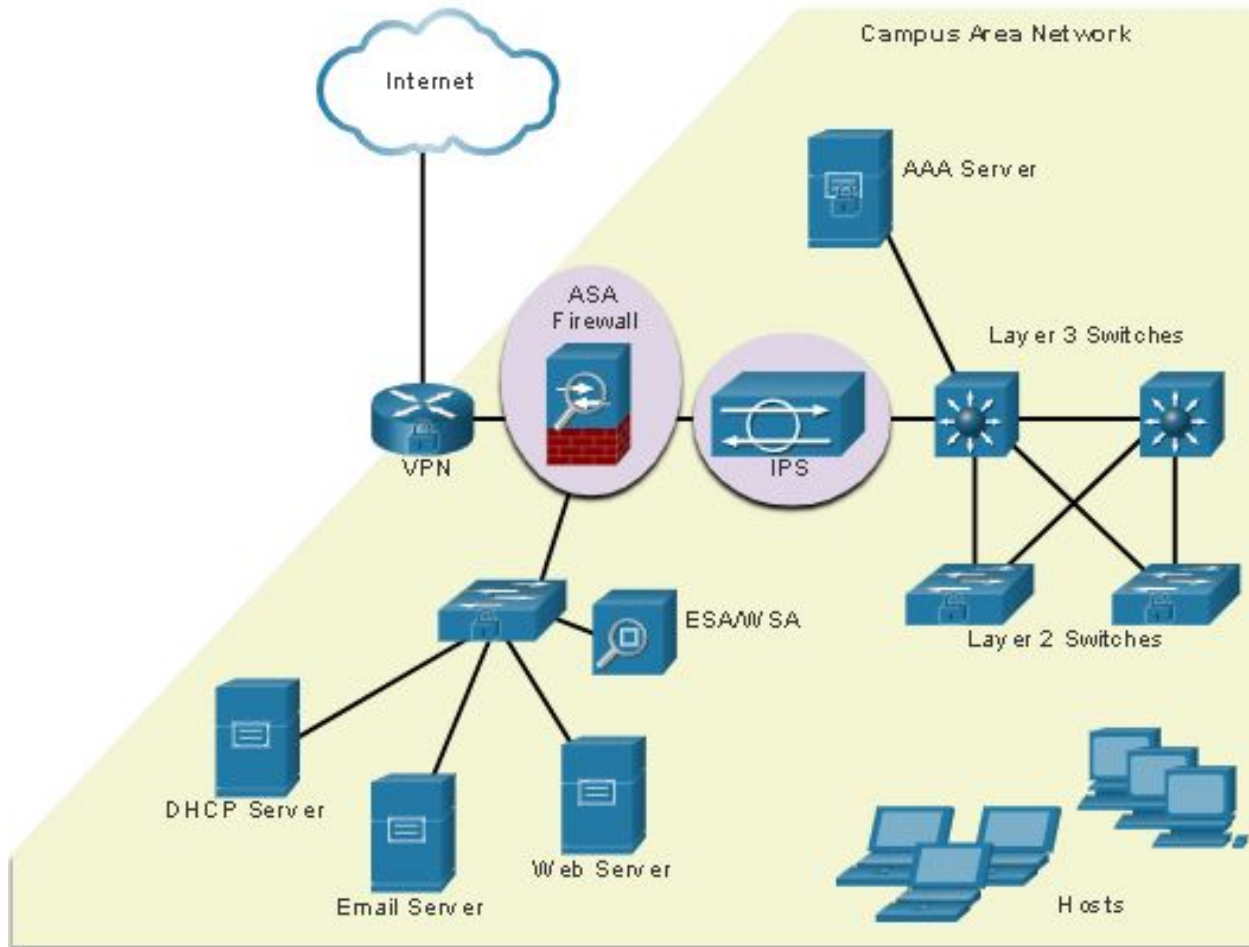


# Ataques de DoS



# Mitigación de ataques de red

# Defense in Depth



# Backups



# Upgrade, Update, y Patch



## Windows Update



You're up to date

Last checked: Today, 3:04 AM

Check for updates



Pause updates for 7 days

Visit Advanced options to change the pause period



Change active hours

Currently 8:00 AM to 5:00 PM



View update history

See updates installed on your device



Advanced options

Additional update controls and settings

# Authentication, Authorization, y Accounting

The diagram illustrates the three pillars of network security using a credit card statement as an example. Three orange boxes on the left are connected by lines to specific parts of the statement:

- Authentication:** Who are you? (Points to the cardholder's name and account number)
- Authorization:** How much can you spend? (Points to the credit limit)
- Accounting:** What did you spend it on? (Points to the transaction list)

**Statement of Personal Credit Card Account**

Account Number: 1234-567-890 | Statement Closing Date: 01-31-01 | Current Amount Due: \$278.50

JOE EMPLOYEE  
456 SKYVIEW DRIVE  
HOMETOWN, USA 99900-1234

MAIL PAYMENT TO:  
THE BANK  
132 VINE STREET  
ANYTOWN, USA 67500-0010

872919345 00178255000000003

Detach here and return upper portion with check or money order. Do not staple or fold.

**Statement of Personal Credit Card Account**

Cardmember Name: JOE EMPLOYEE | Account Number: 1234-456-890 | Statement Closing Date: 01-31-01

Statement Date: 02-01-01 | Payment Due Date: 03-01-01

Closing Date: 01-31-01

Credit Limit: \$1,500.00 | Credit Available: \$1221.50

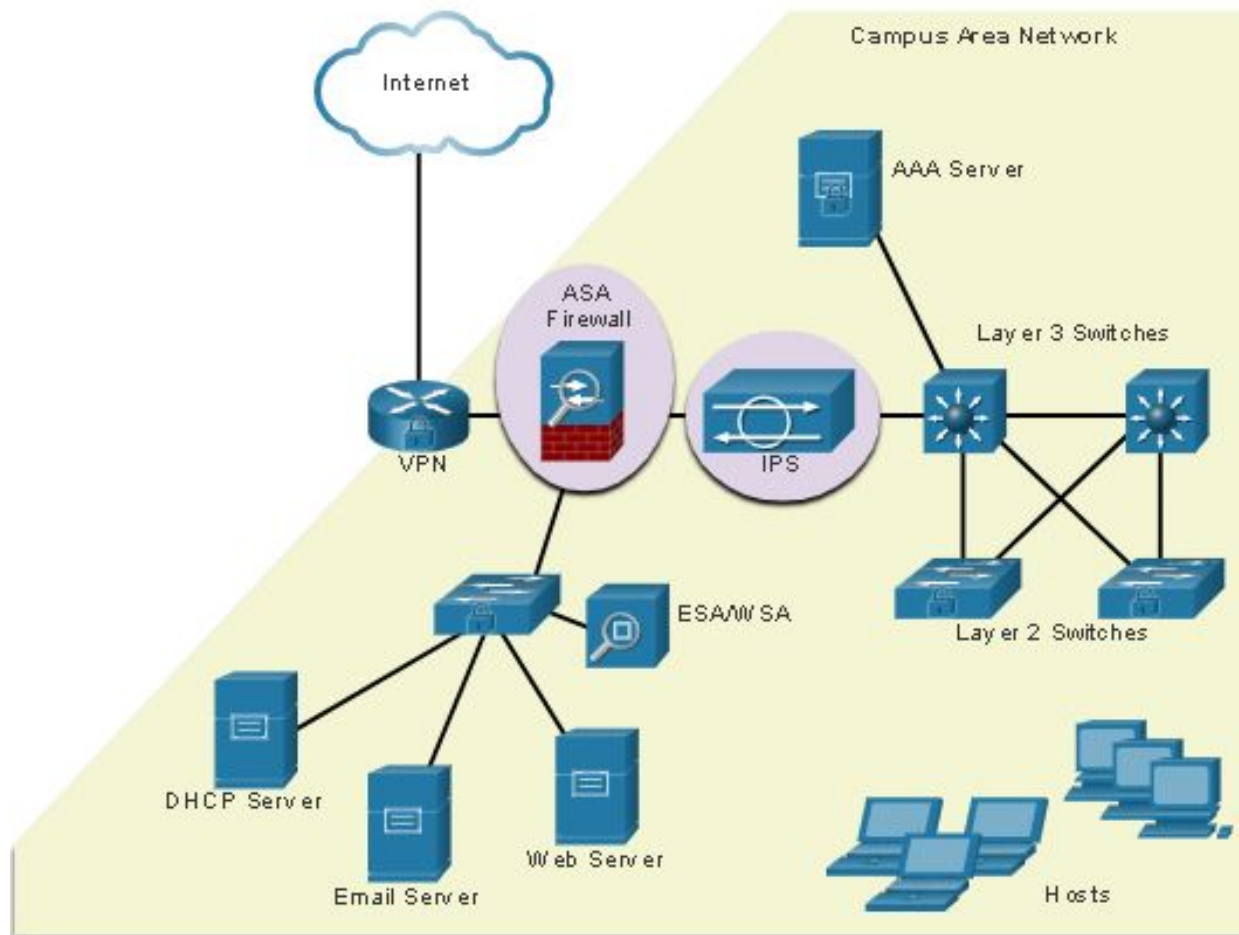
New Balance: \$278.50 | Minimum Payment Due: \$20.00

**Account Summary**

Previous Balance:	+74.24	Transaction Fees:	+3.00
Purchases:	+250.50	Annual Fees:	+25.00
Cash Advances:	+0	Current Amount Due:	+250.50
Payments:	-74.25	Amount Past Due:	+0
Finance Charge:	+0	Amount Over Credit Line:	+0
Late Charge:	+0	<b>NEW BALANCE:</b>	<b>\$278.50</b>

Reference Number	Sold	Posted	Activity Since Last Statement	Amount
43210987	01-03	01-13	Payment, Thank You	-\$74.25
01234567	01-12	01-13	Wings 'N' Things Anytown, USA	\$25.25
78901234	01-14	01-17	Record Release Anytown, USA	\$40.00
45678901	01-14	01-17	Sports Stadium Anytown, USA	\$75.25
3210987	01-22	01-23	Tie Tack Anytown, USA	\$20.75
76543210	01-29	01-30	Electronic World Anytown, USA	\$89.25
2345678		01-30	Transaction Fees	\$3.00
34567890		01-01	Annual Fee	\$25.00

# Firewalls



# Endpoint Security





# Seguridad de dispositivos

# Cisco Autosecure

```
Router# auto secure
      --- AutoSecure Configuration ---
*** AutoSecure configuration enhances the security of
the router but it will not make router absolutely secure
from all security attacks ***
```

# Passwords



# SSH

```
Router# configure terminal
Router(config)# hostname R1
R1(config)# ip domain-name span.com
R1(config)# crypto key generate rsa general-keys modulus 1024
The name for the keys will be: R1.span.com % The key modulus size is 1024 bits
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]
•Dec 13 16:19:12.079: %SSH-5-ENABLED: SSH 1.99 has been enabled
R1(config)#
R1(config)# username Bob secret cisco
R1(config)# line vty 0 4
R1(config-line)# login local
R1(config-line)# transport input ssh
R1(config-line)# exit
R1(config)#
```

# Laboratorio

## Módulo 13

# ¡Muchas gracias!

¡Sigamos trabajando!