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AAA TACACS+ and RADIUS Tutorial

October 18th, 2018 [Go to comments](#)

In this part we will have some configuration of Authentication to help you grasp it.

Question

Suppose we configure AAA as follows.

```
aaa authentication login NO_AUTH none  
  
line console 0  
login authentication NO_AUTH
```

Which login credentials are required when connecting to the console port in this output?

Answer: The console port is authenticated with NO_AUTH list. But this list does not contain any authentication method (it uses “none”) so no authentication is required when connecting to the console port.

Question

Which login credentials are required when connecting to the VTY port in this output?

```
Router(config)#aaa authentication login default group radius local line
```

Answer: We used “default” method list so the authentication is applied to all login connections (even if there is no *login authentication* command). A group of “RADIUS, local and line” is defined so the device will first contact RADIUS server, then local username and finally line password.

Because we are using the list default in the aaa authentication login command, login authentication is automatically applied for all login connections (such as tty, vty, console and aux).

Question

Which login credentials are required when connecting to the VTY port in this output?

```
Router(config)# aaa authentication login default tacacs+ enable
```

Answer: The router first attempts to use the TACACS+ method for authentication, then the *enable* method. Therefore, the enable password is used to authenticate users if the device cannot contact the TACACS+ server.

Note: All the above configuration only uses the first “A” (Authentication) for demonstration. If you wish to learn about two other “A”s (Authorization and Accounting) please visit the Cisco links below:

+ Authorization:

https://www.cisco.com/c/en/us/td/docs/ios/12_2/security/configuration/guide/fsecur_c/scfathor.html

+ Accounting:

https://www.cisco.com/c/en/us/td/docs/ios/12_2/security/configuration/guide/fsecur_c/scfacct.html

Reference:

http://www.cisco.com/c/dam/en/us/products/collateral/security/secure-access-control-server-windows/prod_white_paper0900aecd80737943.pdf

<https://www.cisco.com/c/en/us/support/docs/security-vpn/terminal-access-controller-access-control-system-tacacs-/10384-security.html>

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1. Zoarexpro
February 17th, 2020

Glad to tell you PASSED my exam, 866 points, on 14th Feb 2020.

lots of the questions from here but not entirely from here. there were many new technology infrastructure questions. Sims and drag and drop concepts are in here but still not exactly like what you see them in here. Exam time was sufficient. if you wisely use it, you can even be done before time. I had about 20 min answering my last questing.

2. Anonymous
February 27th, 2020

Hi Guys,

Any advice for me as a beginner for this tutorial?

what will be the first topic/s i need to study in order to understand the basic networking?

3. kevin
July 14th, 2020

Hello, In the book Official Cert Guide CCNA 200-301 there is no configuration for AAA TACACS+ and RADIUS, just a very brief introduction to them. Do you know if the configuration for AAA TACACS+ and RADIUS is still part of the exam?

4. miao
March 5th, 2022

miao?

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