



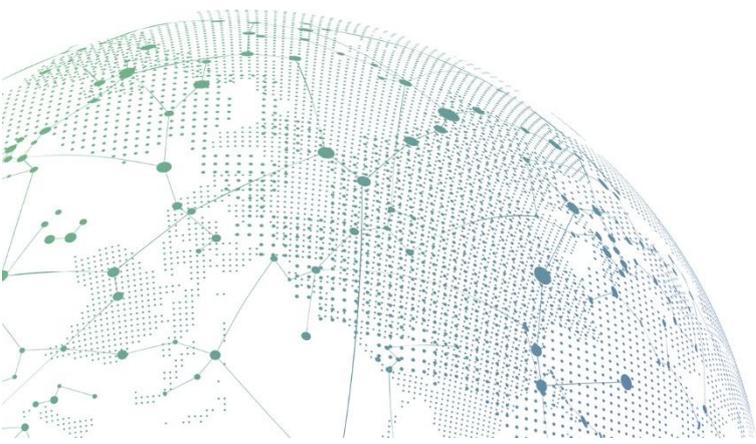
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IAM

Best Practices for Scenarios_Radius_SSO

Version 12.0.42



Change Log

Date	Change Description
August 26, 2020	Version 12.0.42 document release.
May 17, 2021	Version 12.0.42 document update.

CONTENT

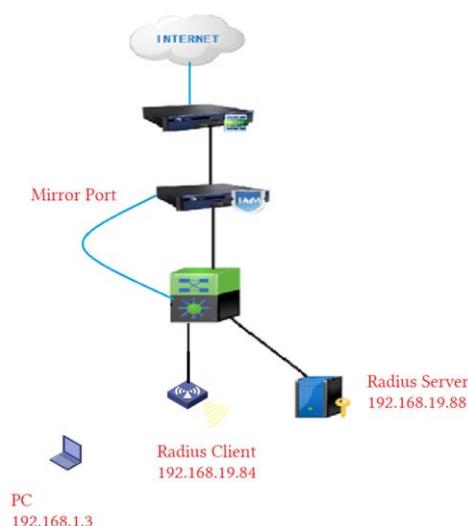
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Chapter 1 Scenario

Radius is the abbreviation of Remote Authentication Dial. Radius was originally designed to authenticate and charge dial-up users. These functions are often used by telecommunications departments. The bills we receive after dial-up Internet access are counted by the Radius server. After using Radius for a period of time, everyone found that the Radius protocol is powerful, easy to use and easy to expand. Therefore, after improvements, Radius has now become an internationally accepted authentication billing protocol, which is widely used in ordinary telephone Internet access, ADSL Internet access, community broadband Internet access, Many occasions such as IP telephone.

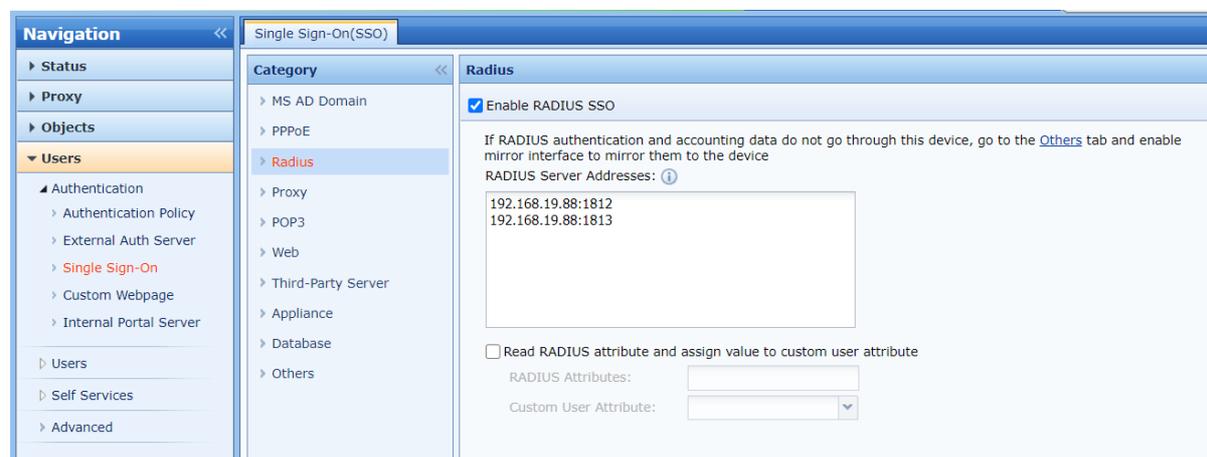
A large factory uses commercial wireless to allow employees to access the Internet, while using IAM to manage and audit users' online activity. At the authentication level, the IT department hopes to authenticate users in order to better manage the network. User names and passwords will be added to the Radius Server of the intranet when employees enter the company. The IT department hopes that users who have passed radius authentication do not need to pass IAM's secondary authentication.

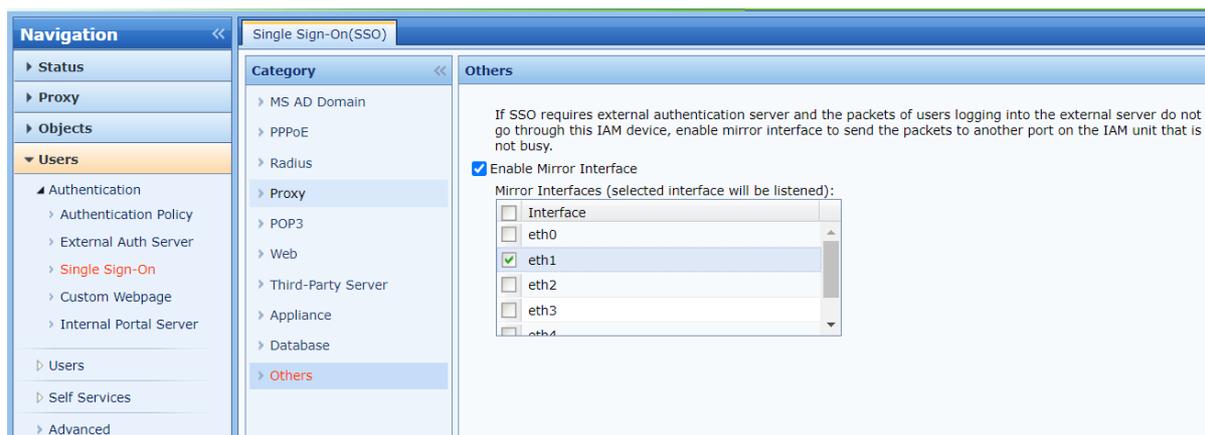
Generally, the endpoint does not communicate directly with the Radius Server, but communicates with the Radius Client. For example, the wireless access controller here acts as the Radius Client.



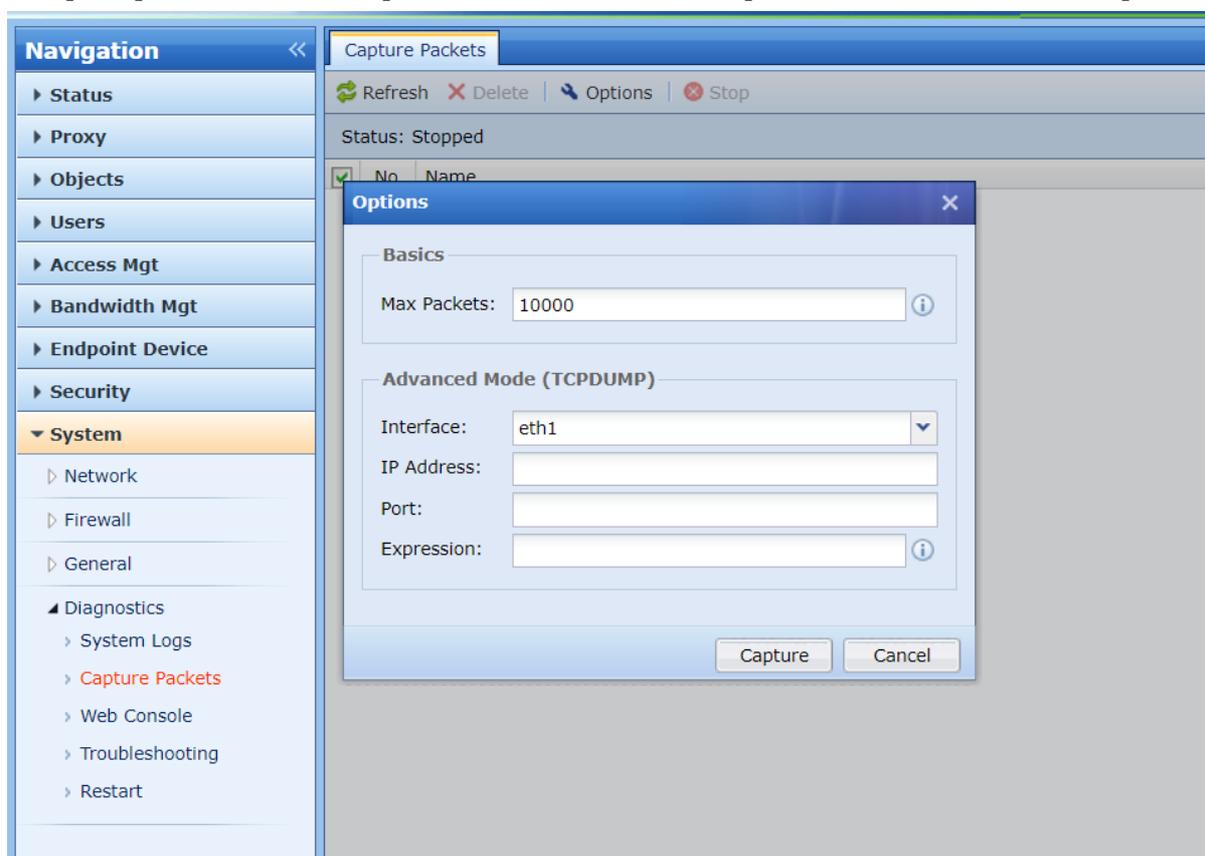
Chapter 2 Configure IAM

1. Configure Radius SSO, you must specify the address and port of the Radius Server. The default ports are 1812 and 1813. If it is Cisco's Radius Server, the default ports are 1645 and 1646.





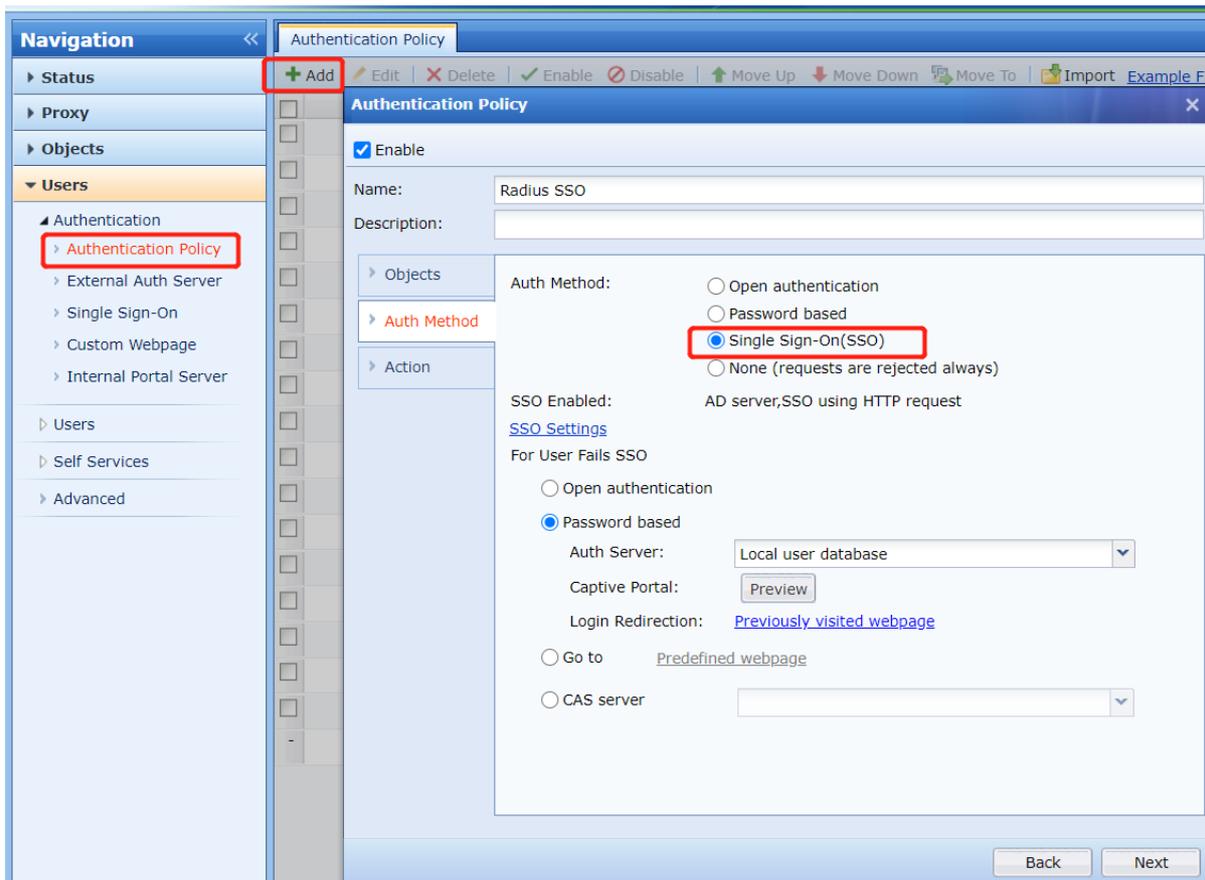
2. Configure the switch to mirror the radius traffic to the mirror port of IAM.
3. Capture packets at the mirror port to check whether the data packet is sent to the IAM mirror port.



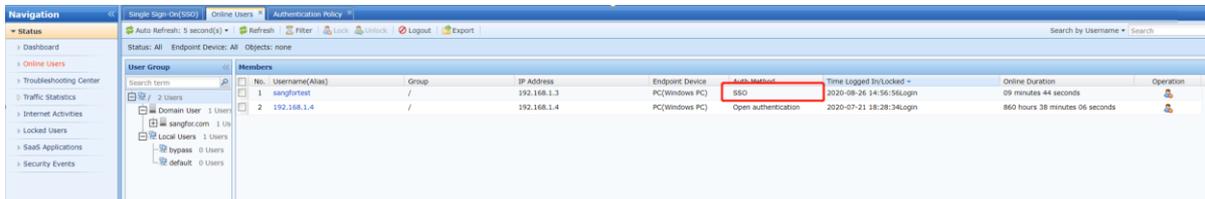
Check whether the packet include the IP address of PC, if packet is not include the PC IP address, IAM will not know which IP will be authenticate. The **NAS-IP-Address** field Record the IP of radius Server, The **Framed-IP-Address** field record the IP of PC. If the user must be authenticated successfully, the packet must include **Framed-IP-Address** and **Username** field. Some packet not contain the **Framed-IP-Address** field, just need configure radius setting in Radius Server.



4. Create authentication policy and choose SSO.



5. Then you can see that PC192.168.1.3 is online and the authentication method is SSO on the IAM.





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