

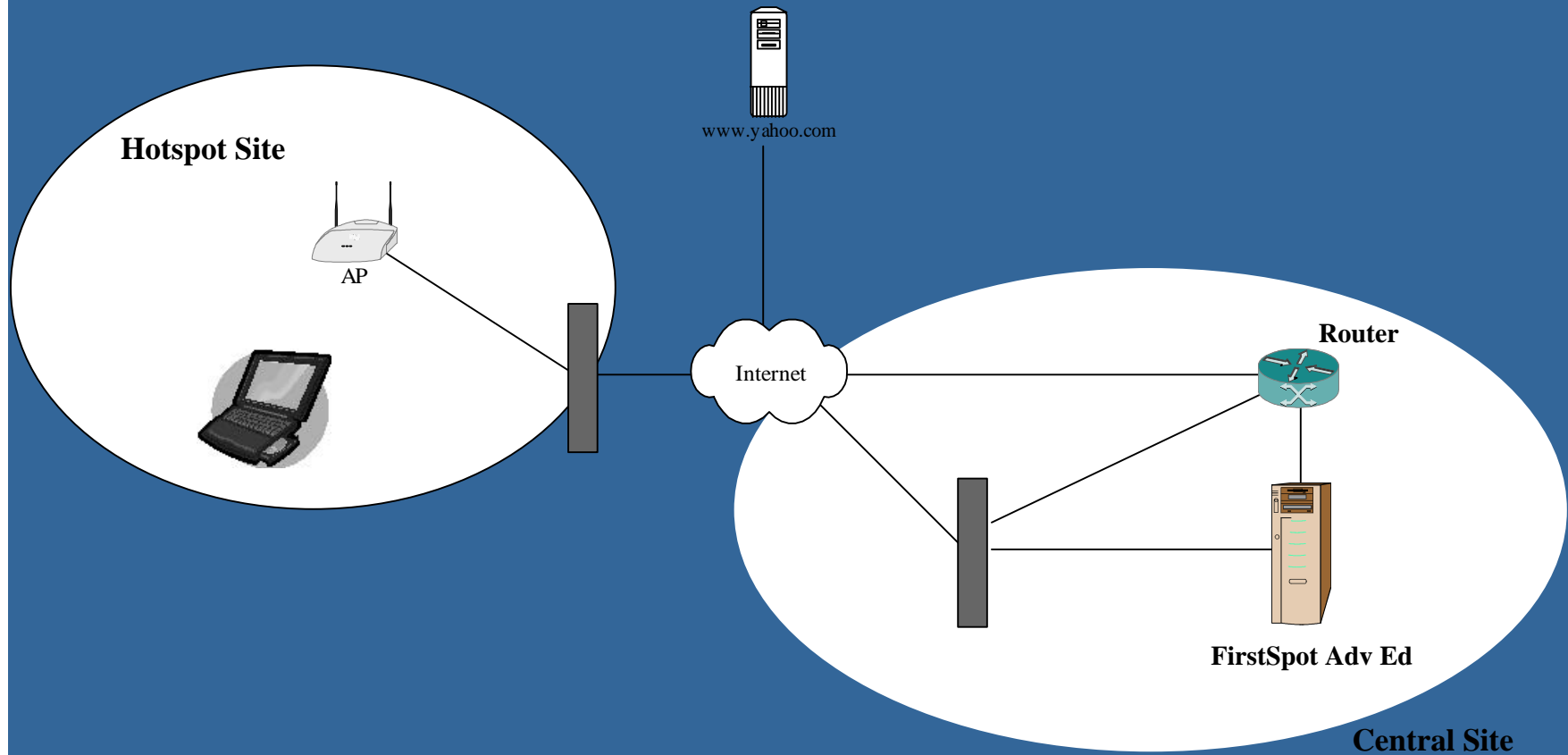
Running FirstSpot at a Central Site to Serve Multiple Hotspot Locations

- Requirements
 - You need to turn on the Multiple Network Segment feature and IP-based session handling in Advanced Edition
 - You need to control (or route) the traffic leaving each hotspot location back to the central site and let FirstSpot to authenticate and control the access

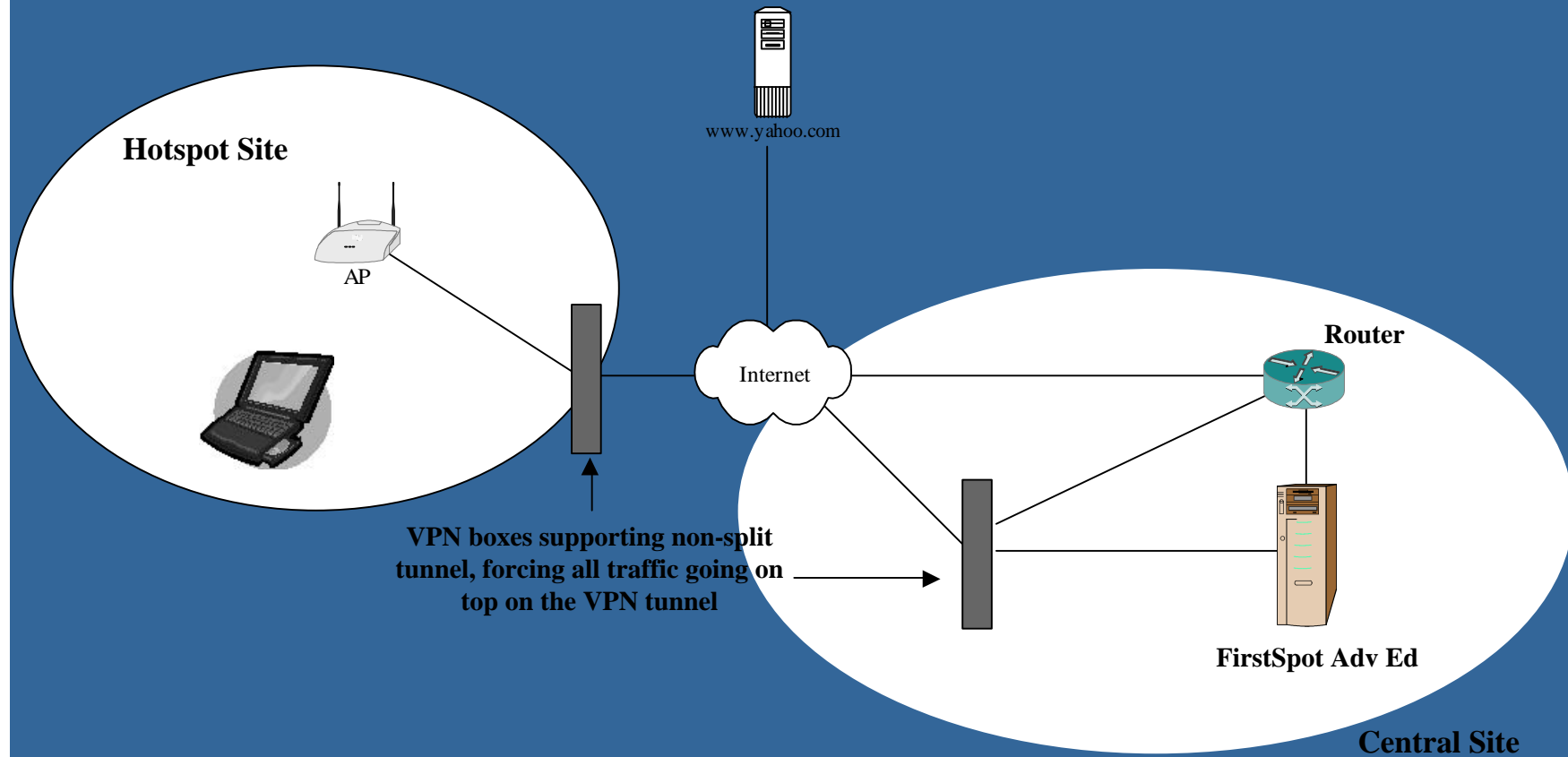
Running FirstSpot at a Central Site to Serve Multiple Hotspot Locations

- Challenges
 - If you are an ISP: it's easy; because you have full control on the routing path of the outgoing hotspot traffic
 - If you are NOT an ISP: you may need to implement **VPN** to mimic a private network connecting the centralized FirstSpot and all hotspot locations

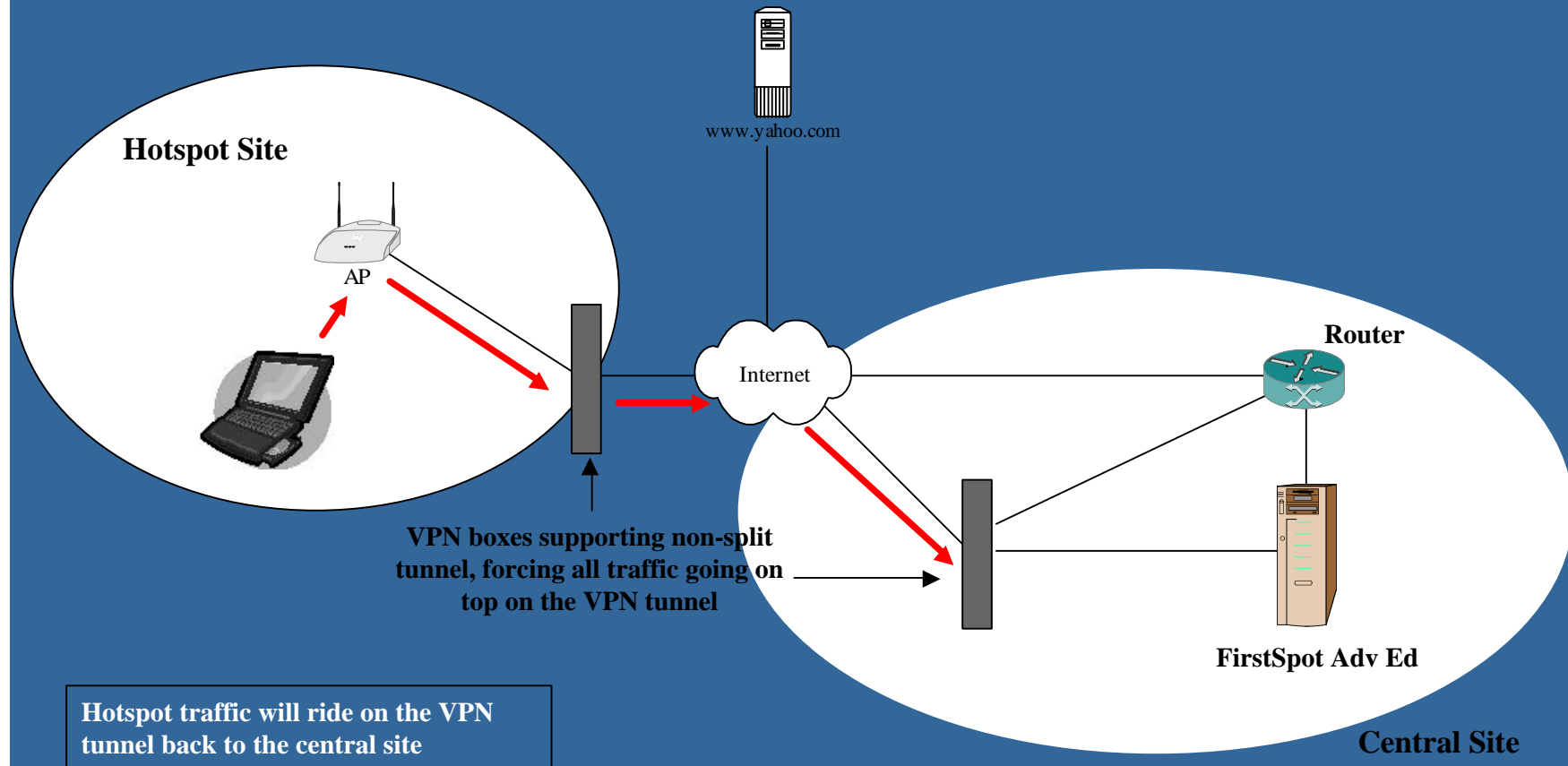
Implementing FirstSpot Adv Ed Using VPN



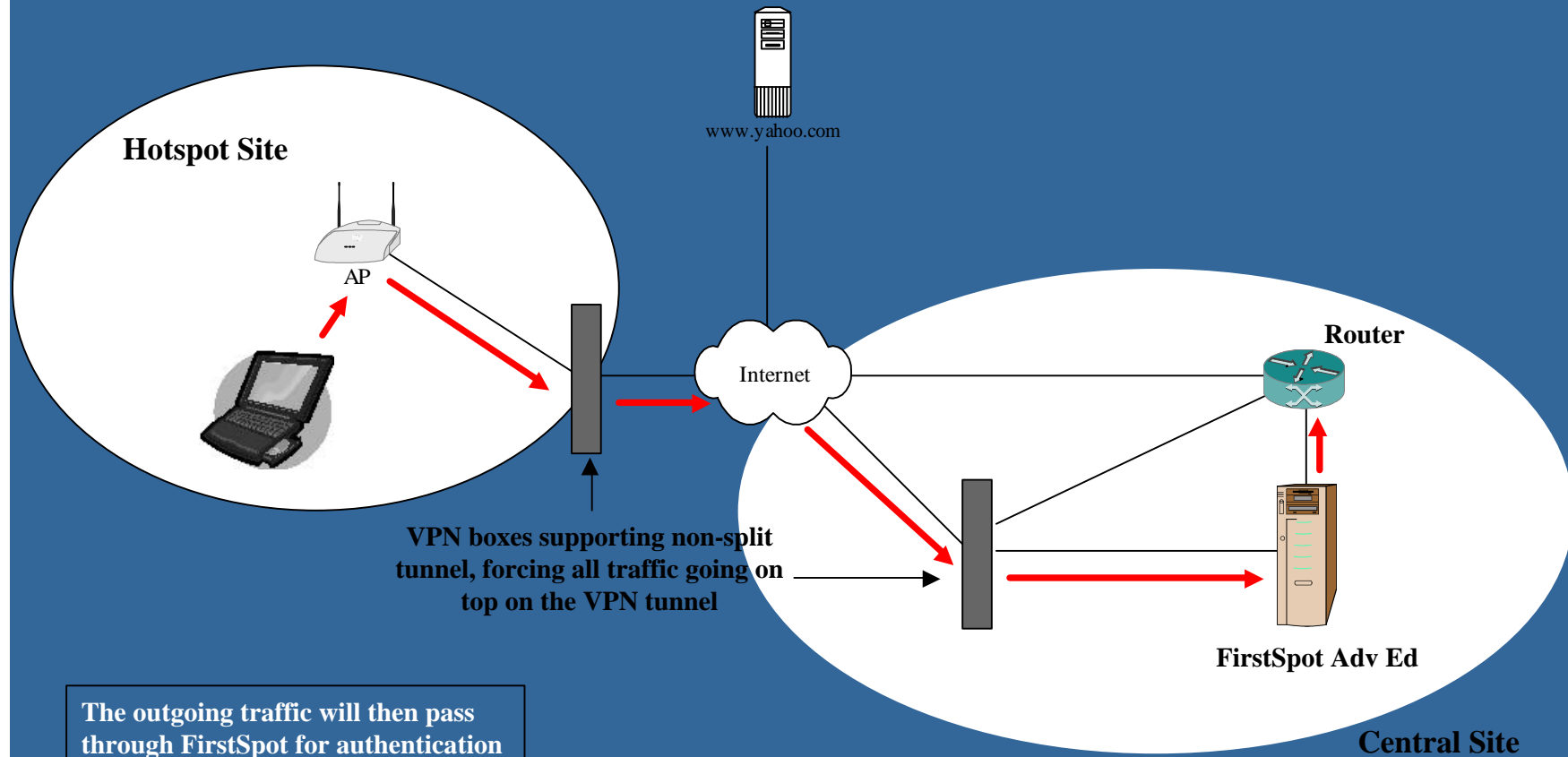
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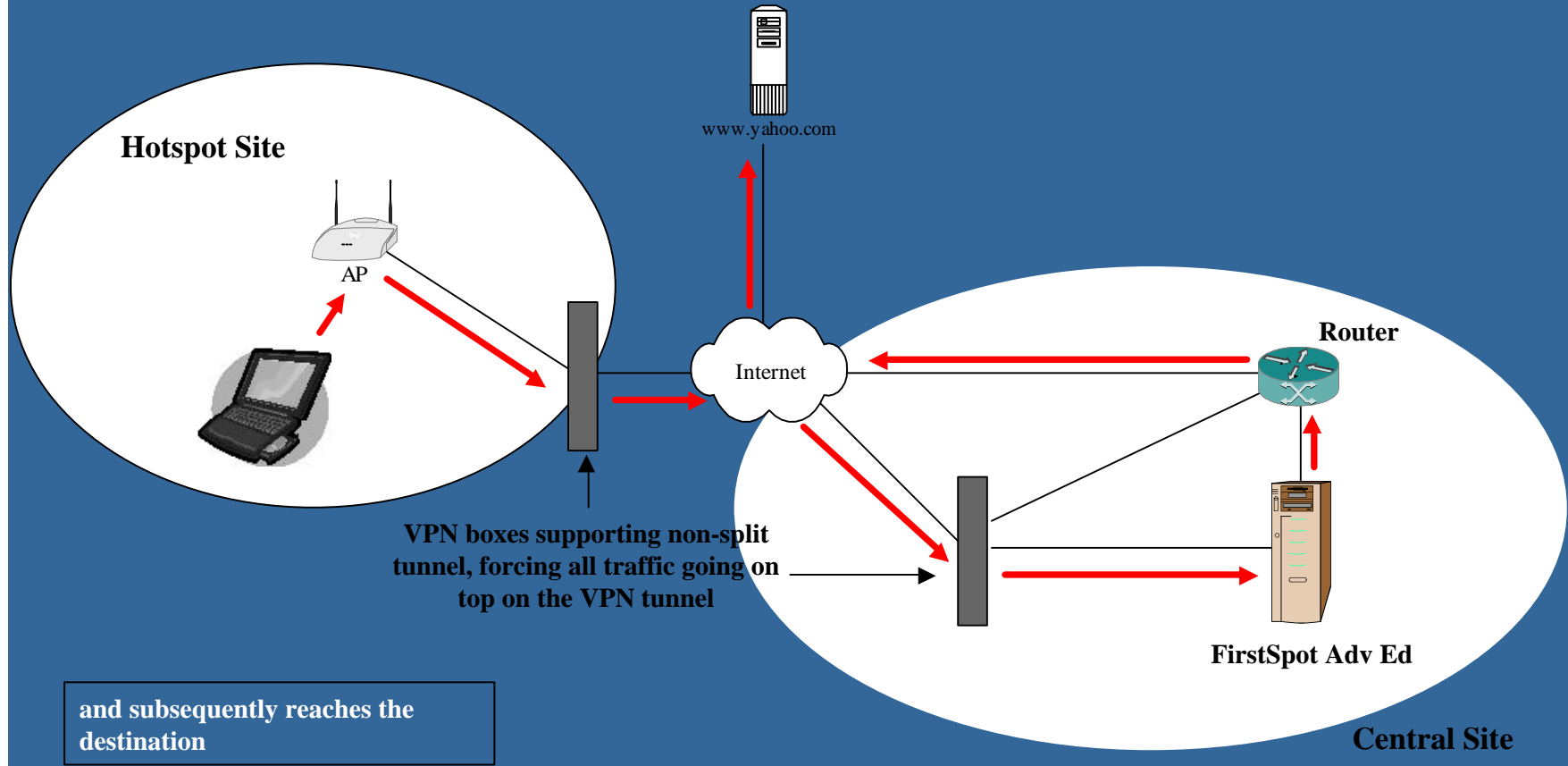


Implementing FirstSpot Adv Ed Using VPN



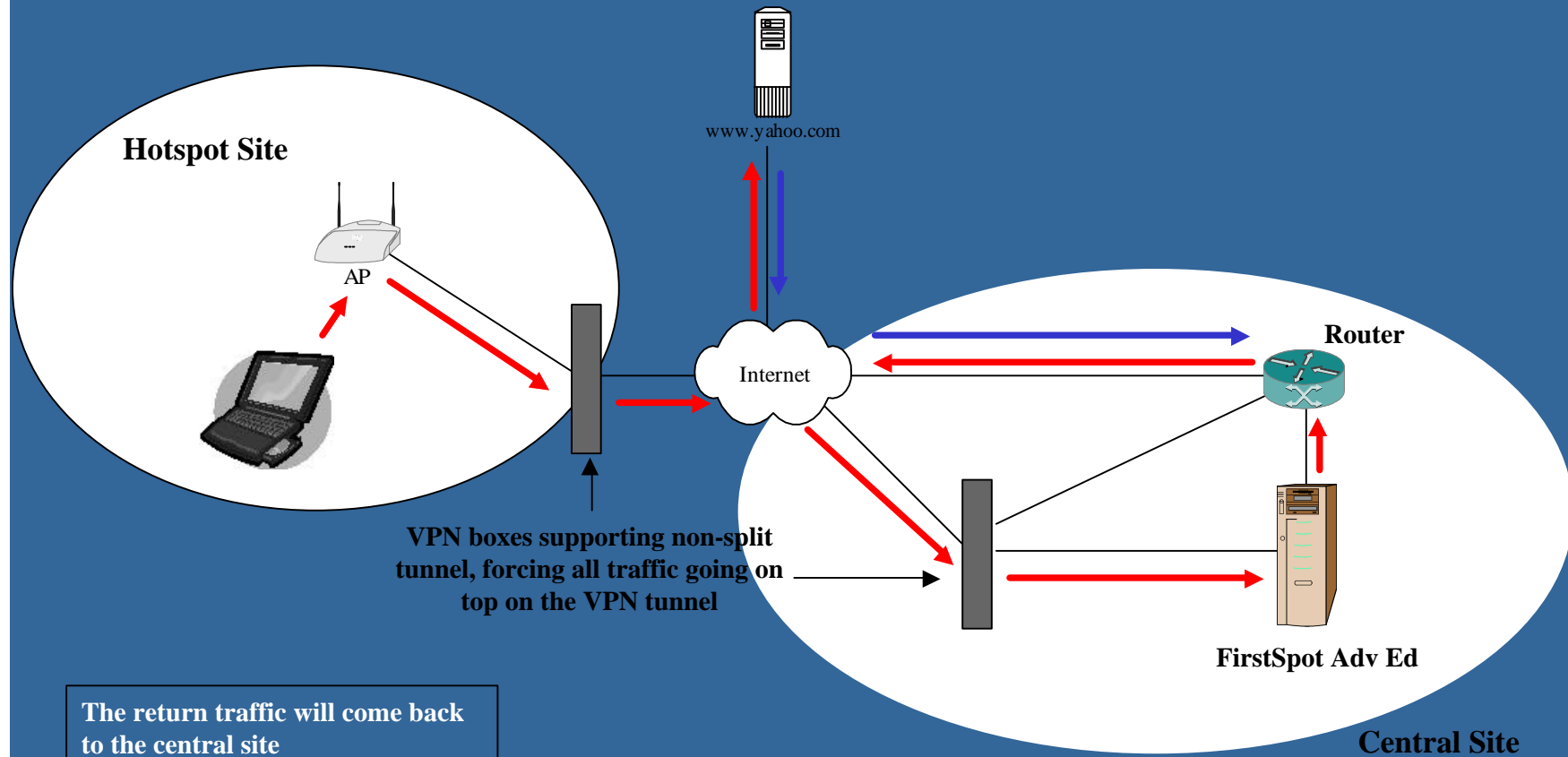
The outgoing traffic will then pass through FirstSpot for authentication and access control...

Implementing FirstSpot Adv Ed Using VPN

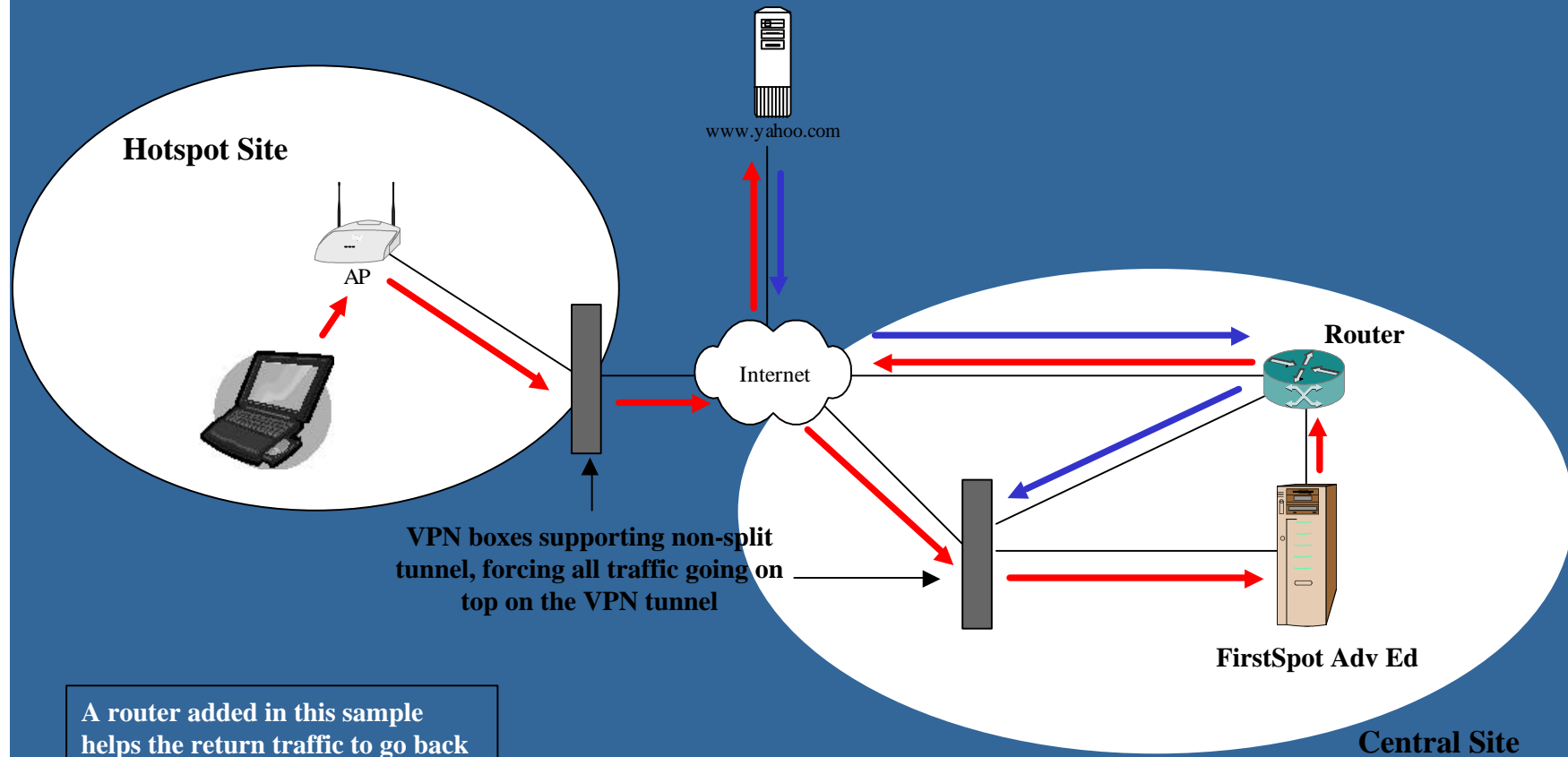


and subsequently reaches the destination

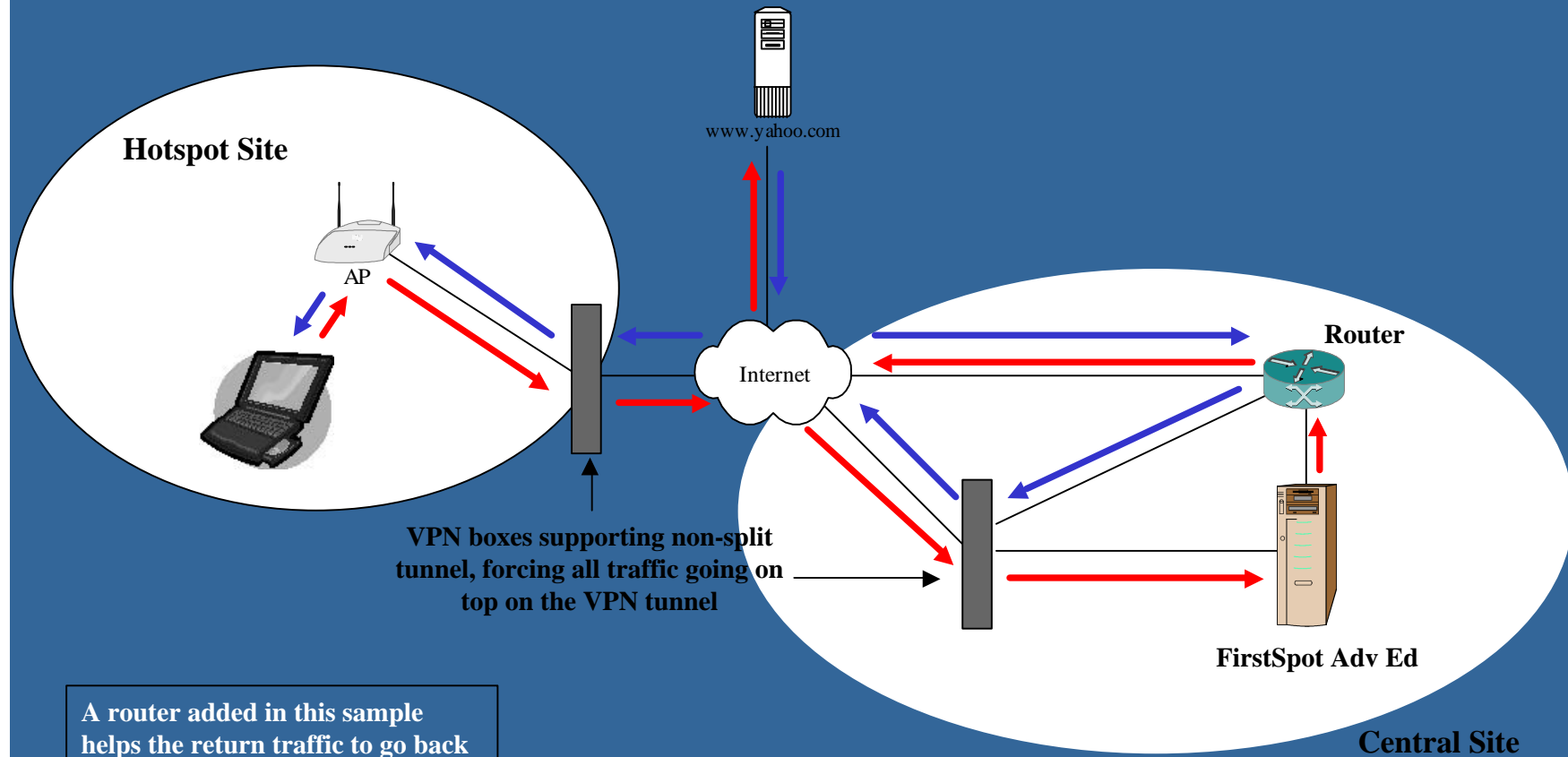
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A router added in this sample helps the return traffic to go back to the hotspot site using the shortest path and relieves FirstSpot's loading

Implementing FirstSpot Adv Ed Using VPN

- Pros
 - Lower cost of investment - saving the cost of implementing FirstSpot at EACH hotspot location
 - Easy deployment – after successful configuration at the central site, it only requires installing a VPN appliance box at the hotspot end when the hotspot business grows
 - Easy management – managing the FirstSpot server centrally
- Cons
 - Much higher skill set of networking and routing required to set up and configure VPN tunnels

Hardware & Software Requirements

- At each hotspot location
 - an Internet connection with a fixed IP address
 - an VPN appliance box which supports *non-split tunnels**
 - as many Wi-Fi access points as needed

* The non-split tunnel feature may not be available from all VPN manufacturers, please check thoroughly before committing a purchase

Hardware & Software Requirements

- At the central site
 - 2 Internet connections, 1 with fixed IP addresses
 - an VPN appliance box supporting non-split tunnels and being able to route the incoming traffic to the FirstSpot server for authentication and access control
 - 1 router supporting 3 subnets (you can easily build this with an Linux PC and 3 network cards)
 - 1 PC server running FirstSpot Advanced Edition

Pricing Reference

	VPN router	Wireless AP	Router with 3 subnets	PC server	FirstSpot Adv Ed
At each hotspot location	150	50	--	--	--
At the central site	300	--	300	600	895

Note: the figures (in USD) above indicate starting prices and are for reference only

When should I start to consider using Scenario 3?

- When you have or plan to have more than 2 hotspot locations, usually it becomes financially and technically justifiable to deploy scenario 3

When do you need help from our support team?

- You probably need our support team's help if...
 - you haven't heard of or don't understand non-split tunnels of VPN
 - you are not comfortable at routing technology
 - you do not want to waste time in doing trial-and-error work to get scenario 3 up and running
 - you do not want to leave your deployment unsupported

What our support team can do to help?

- A comprehensive yearly support package is there to help customers to deploy scenario 3 using VPN, which includes
 - Recommending necessary hardware (brand & model) required to get the job done
 - Configuring the equipment remotely to get the central site up and running
 - Connecting one hotspot site back to the central site and transferring this skill to your technical staff to complete the rest
 - Technical support by email, instant messaging and VNC session where appropriate
 - Free upgrade to major versions

Thank You

For more information, please contact
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