



CCIE Security Version 5 Advanced Technologies Class



Time-Based Access-Lists

What are time-based ACL's?

Are there any special considerations?

Time-Based Access-Lists Overview

▶ What is the scope?

- Build policies based on specific time intervals
- ACL entries are valid/invalid based on the router's clock

▶ Applications

- Time-based NAT
- Time-based IPsec
- Time-based QoS

Time-Based Access-Lists Overview

▶ Considerations

- Works for both IPv4 and IPv6
- Only supported by extended ACL's
- Router time needs to be accurate (not necessarily NTP synchronized if it survives a router reload)

Time-Based Access-Lists

► Implementation Steps

- Define the time range
- Configure accurate clock on the router
- Configure the access-list and specify which ACE's are time-based
- Apply the access-list
- Verify its functionality

Time-Range Definition

▷ Time-range can be of two types

- Absolute
- Periodic

▷ Absolute

- Valid for a specific date and time interval, but only once

▷ Periodic

- Valid for a specific time interval, but recurring



Knowledge is Power!