



OSPF – Details

The IETF Routing Master
Part 6

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Authentication



- **All OSPF protocol exchanges can be authenticated**
 - ♦ **Either cleartext password or MD5**
 - ♦ **Only trusted routers can communicate with each other**
 - ♦ **Per interface password must be specified**

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Important SPF Details



- **5 seconds hold-time**
 - ◆ After receiving an LSU before calculating SPF
 - ◆ To mitigate instabilities
- **Minimum time between two calculations= 10 seconds (spf-delay)**
- **Load Balancing: Up to 6 equal-cost paths**

OSPF States



- **Exchange state**
 - ◆ State in which two neighbouring routers discover the map of the network
 - ◆ When these routers become adjacent, they must first exchange DDPs to ensure that they have the same topology table
- **Exstart state**
 - ◆ State in which the neighboring routers determine the sequence number of the DDPs and establish the master/slave relationship