<table>
<thead>
<tr>
<th>Title</th>
<th>Objective</th>
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</thead>
</table>
| Packet flow diagram                  | • Why this diagram is necessary?  
• Full overview of all things covered by diagram  
• Simple examples how packet travels through the diagram (routing, bridging, connection to router etc.) + LAB  
• More complex examples of diagram usage + LAB |
| Firewall filter/nat/mangle            | • Connection tracking  
• Filter + LAB  
  o chains (default/custom)  
  o all rule "actions" covered  
  o most common rule "conditions" covered  
• NAT + LAB  
  o chains (default/custom)  
  o all rule "actions" covered  
  o most common rule "conditions" covered  
  o NAT helpers  
• Mangle + LAB  
  o chains (default/custom)  
  o all rule "actions" covered  
  o most common rule "conditions" covered  
• Some complicated rule "conditions" covered ("advanced", "extra" tab) + LAB  
• uPNP |
| Quality of Service                   | • HTB  
  o HTB general information  
  o HTB implementation (queue tree)  
  o HTB structure + LAB  
  o HTB Dual Limitation + LAB  
  o HTB priority + LAB  
• Burst + LAB  
• Queue types  
  o FIFO + LAB  
  o SFQ + LAB  
  o RED + LAB  
  o PCQ + several LABs  
  o queue size + LAB  
• Simple queues + LAB  
• Simple queue and queue tree interaction |
| DNS client/cache                      | • Basic configuration + LAB  
• Static DNS Entry + LAB |
| DHCP client/relay/server              | • DHCP communication analysis  
• DHCP-client identification/ configuration + LAB  
• DHCP server configuration: + LAB  
  o DHCP networks  
  o DHCP options (build-in and custom)  
  o IP Pool |
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<tbody>
<tr>
<td></td>
<td>advanced DHCP</td>
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<td></td>
<td>• DHCP relay configuration + LAB</td>
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<tr>
<td>Web Proxy</td>
<td>• Basic configuration</td>
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<td></td>
<td>• Proxy rule lists</td>
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<tr>
<td></td>
<td>• Access list + LAB</td>
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<td>• Direct Access list + LAB</td>
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<td>• Cache list + LAB</td>
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<td>• Regular expression + LAB</td>
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