

# Agenda IPv6 Fundamentals & Praxisworkshop

## 1. TAG

**08:30** Eintreffen der Teilnehmer im Gebäude 4 (Mensa)  
Begrüßung bei Kaffee und Gipfeli

**09:00 - 11:00** **Vorstellung INS-HSR**

**IPv6 - a Brief Introduction**

- History
- Why IPv6 now, after 15 years of talking?
- Motivation to deploy IPv6

## Pause

**11:15 - 12:00** **IPv6 Overview**

- Packet
- Extension Headers
- Autoconfiguration
- IPv6 Addresses

## Mittagessen

**13:00 - 14:45** **IPv6 Address Planning**

- IPv6 Address Ranges
- Practical Address Plan
- Subnetting in IPv6

## Pause

**15:00 - 17:00** **IPv6 Routing I**

- IPv6 Interfaces
- Static Routing
- RIPng
- EIGRP

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## 2. TAG

**09:00 - 11:00**

### **IPv6 Routing II**

- OSPFv3
- BGP
- Policy Based Routing
- First Hop Redundancy / HSRP

## Pause

**11:15 - 12:15**

### **IPv6 Services**

- DNS /DHCP
- Security
- Management SNMP, NTP, SSH, Telnet, Syslog

## Mittagessen

**13:30 - 15:15**

### **IPv6 Tunnel Technologies**

- 6in4
- 6over4
- ISATAP
- Teredo
- 6rd

## Pause

**15:30 - 17:15**

### **IPv6 Deployment Plan**

- Do I need to start now?
- Where to start and things to consider
- Hardware and Software
- IPv6 Addressing Plan
- Best Practice

### **Course Feedback**