

ETH 405

Advanced Switching/Routing Configuration and Management



The ETH 405 course is an in-depth study of layer 2 and layer 3 features of Foundry Networks switches and routers including advanced technologies such as Spanning Tree, OSPF, and BGP. It covers network design, system configuration and troubleshooting using the Foundry switches and routers.

Course Contents

Spanning Tree
OSPF
BGP

Target Group

- Customers or Resellers who are experienced with Foundry Networks Products
- Network technicians with installation, configuration, and troubleshooting experience with Foundry Products
- Network Administrators responsible for implementing and managing small to large enterprise and ISP networks.
- Network support staff that will act as network device installers and first-line support for a local to global sized business environment.

Knowledge Prerequisites

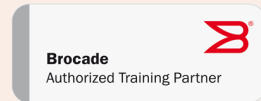
Working Knowledge of:

- Spanning Tree Protocol 802.1d
- Inter-domain routing protocols (RIP, OSPF, static routes)
- Exterior-domain routing protocols (BGP)
- FNCNE level knowledge or equivalent of Layer 2 switching and Layer 3 IP routing
- Foundry Networks command line interface (CLI)

Course Objectives

After completing this course, the student will be able to:

- Implement advanced designs and configurations in Layer 2 and 3 Data Networks
- Implement advanced STP, OSPF and BGP features on Foundry Switches / Routers
- Tune the Foundry Networks Layer 2 network for fast STP failover
- Design and configure multi-homed networks with BGP attributes and scale IBGP with route selectors
- Interconnect Foundry Switch Routers based on a network design
- Troubleshoot the in class design implementations using the CLI show commands



Reservation and Registration

We will be glad to make a free and non-binding course reservation for you for the duration of two weeks. On www.expertech-training.com under *Registration*, you can conveniently make course reservations, registrations, and hotel reservations. Alternatively, call us under +49 6074 4868-0.

For closed groups of participants, we can modify the course contents according to your requirements. Do not hesitate to contact us!



ETH 405

5 days

€3,250 exclusive of V.A.T.

Course date (mm/dd/yy)/Location

Course dates available on request

Up-to-date information: www.expertech-training.com

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EXPERTech



Brocade

ICT Training
International



Spanning Tree

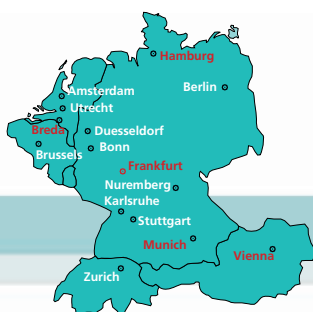
- Review of 802.1D Spanning Tree Protocol
- Root Bridge Election & Path Cost
- Spanning Tree Applications
- Rapid Spanning Tree 802.1W- Draft 3
- Per VLAN Spanning Tree
- Per VLAN Group Spanning Tree

OSPF

- OSPF Adjacency
- OSPF Database
- OSPF Route Summarization
- Administrative Distances
- Blocking External LSAs

BGP

- BGP Fundamentals
- Route Filtering and Selection
- Implementing BGP Policy Changes
- Manipulation Attributes using Route Maps
- Filtering Prefixes
- Transit Autonomous Systems
- Redundancy
- MultiHomed to ISPs
- BGP Convergence and Route flap Dampening
- Scaling IBGP



ExperTeach Gesellschaft für Netzwerkkompetenz mbH

Waldstr. 94 • D-63128 Dietzenbach
Phone +49 6074 4868-0 • Fax +49 6074 4868-109
info@experteach.de • www.experteach.de

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