

# Chapter 5: Inter-VLAN Routing

## Objectives:

- Familiarize in different Inter-VLAN solutions
- Familiarize in Inter-VLAN configuration using router-on-a-stick
- Familiarize in Inter-VLAN configuration on a multilayer switch through virtual interface

## The Need For Routing

Each network has it's own needs, though whether it's a large or small network, internal routing, in most cases, is essential - if not critical. The ability to segment your network by creating VLANs, thus reducing network broadcasts and increasing your security, is a tactic used by most engineers. Popular setups include a separate broadcast domain for critical services such as File Servers, Print servers, Domain Controllers e.t.c, serving your users non-stop.

The issue here is how can users from one VLAN (broadcast domain), use services offered by another VLAN?

Thankfully there's an answer to every problem and in this case, its VLAN routing:



The above diagram is a very simple but effective example to help you get the idea. Two VLANs consisting of two servers and workstations of which one workstation has been placed along with the servers in VLAN 1, while the second workstation is placed in VLAN 2.

In this scenario, both workstations require access to the File and Print servers, making it a very simple task for the workstation residing in VLAN 1, but obviously not for our workstation in VLAN 2.

# Chapter 5 Inter Vlan Routing Cnacad

**Mohammad Salameh Obaidat**



## Chapter 5 Inter Vlan Routing Cnacad:

*CCNP Practical Studies* Justin Menga, 2003 Gain necessary hands on experience implementing CCNP Switching concepts with this practical lab guide Prepare for the CCNP Switching exam through hands on application of concepts These lab configurations are complete with explanations of equipment setup and execution **The National Guide to Educational Credit for Training Programs** American Council on Education, 2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies

*Proceedings of the 2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, July 20-24, 2003 Montreal, Quebec, Canada* Mohammad Salameh Obaidat, 2003 Issues for 2011 cataloged as a serial in LC **Electrical & Electronics Abstracts**, 1988 **LAN Switching and Wireless, CCNA Exploration Companion Guide** Wayne Lewis, 2008-04-28 LAN Switching and Wireless CCNA Exploration Companion Guide Wayne Lewis Ph D LAN Switching and Wireless CCNA Exploration Companion Guide is the official supplemental textbook for the LAN Switching and Wireless course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course provides a comprehensive approach to learning the technologies and protocols needed to design and implement a converged switched network The Companion Guide written and edited by a Networking Academy instructor is designed as a portable desk reference to use anytime anywhere The book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter Glossary Consult the all new comprehensive glossary with more than 190 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer Wayne Lewis is the Cisco Academy Manager for the Pacific Center for Advanced Technology Training PCATT based at Honolulu Community College How To Look for this icon to study the steps that you need to learn to perform certain tasks Packet Tracer Activities Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4 1 developed by Cisco The files for these activities are on the accompanying CD ROM Also available for the LAN Switching and Wireless course LAN Switching and Wireless CCNA Exploration Labs and Study Guide ISBN 10 1 58713 202 8 ISBN 13 978 1 58713 202 5 Companion CD ROM See instructions within the ebook on how to get access to the files from the CD ROM that accompanies this print book The CD ROM provides many useful tools and information to support your education Packet Tracer Activity exercise files A Guide to Using a

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**Investigation of Inter Vlan Routing and Deploying Access Control List for Corporate Network** Goli Swapan Mohit,Jayakrishna P,Sai Bhararth C,Ravi Kumar CV,Venugopal P,2020 This article presents a usage of IPV4 and IPV6 legitimate tending to for an Organization Network Various configurtions done in this system are Access Control Lists ACL s for an Internet Service Provider ISP switch associated with edge Router of an organsitation Network to obstruct a few administrations from our Network to outside web which is associated with ISP switch and system address translation NAT to be done in edge switch of an association Virtual LAN s VLAN s 15 25 35 88 to be done in each switch of an association Time Delay has been determined to ping from same VLAN s Different VLAN s and between IPV4 IPV6 systems utilizing CISCO PACKET TRACER 7

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