



**Mcts 70 642 Cert Guide Windows  
Server 2008 Network  
Infrastructure Configuring**

**MCSA 70-642 Cert Guide:  
Mastering Windows Server 2008  
Network Infrastructure**

## Configuration

The Microsoft Certified Solutions Associate (MCSA) 70-642 exam, focusing on Windows Server 2008 Network Infrastructure Configuration, remains a cornerstone for IT professionals seeking to demonstrate their expertise in building and managing robust network environments. This guide delves into the key aspects of the 70-642 exam, providing insights into its core concepts, practical applications, and the overall value of achieving this certification.

We will explore topics such as **IP addressing and subnetting**, **DNS server configuration**, and **DHCP server management**, all crucial elements within the exam's scope. Preparing thoroughly for this exam opens doors to lucrative career opportunities and enhances your ability to design and implement efficient and secure network infrastructures.

## Understanding the MCSA 70-642 Exam: A Deep Dive

The MCSA 70-642 exam assesses your understanding of core networking concepts within a Windows Server 2008 environment. It's not merely about memorizing commands; it tests your comprehension of underlying network principles and how to apply them practically. The exam's structure focuses on practical skills and troubleshooting scenarios. This means you should be comfortable not only configuring network services but also diagnosing and resolving common network issues. Successful candidates demonstrate proficiency in:

- **Installing and Configuring Network Services:** This includes setting up and managing crucial network components like DHCP, DNS, and WINS servers. You'll need to understand how these services interact and their role in a functional network.
- **Implementing IP Addressing and Subnetting:** A fundamental

aspect of network administration is mastering IP addressing schemes, including subnetting and VLSM (Variable Length Subnet Masking). The exam thoroughly tests your ability to plan and implement efficient IP addressing strategies.

- **Managing Network Security:** Security is paramount, and the exam covers topics like configuring firewalls, implementing IPsec, and understanding network security best practices within a Windows Server 2008 context. This includes familiarity with Active Directory's role in network security.
- **Troubleshooting Network Connectivity:** The ability to diagnose and fix network problems is crucial. The exam presents scenarios requiring you to identify the root cause of network connectivity issues and implement solutions. Understanding tools like `ipconfig`, `ping`, and `tracert` is vital.
- **Implementing Routing and Remote Access:** This involves setting up routing protocols (although detailed routing protocols like OSPF and BGP are generally covered in more advanced certifications) and configuring VPN connections for secure remote access.

## Benefits of MCSA 70-642 Certification

Earning the MCSA 70-642 certification offers several compelling benefits:

- **Enhanced Career Prospects:** This certification significantly boosts your resume, demonstrating your proficiency in managing Windows Server 2008 network infrastructures. It's highly valued by employers seeking skilled network administrators.
- **Increased Earning Potential:** Certified professionals often command higher salaries due to their proven expertise and skills.
- **Improved Job Security:** In the competitive IT landscape, possessing a recognized certification provides a competitive edge and enhances job security.
- **Access to Advanced Training:** The 70-642 certification often serves as a stepping stone to more advanced Microsoft certifications, like MCSE (Microsoft Certified Solutions Expert).
- **Industry Recognition:** Microsoft certifications are widely recognized and respected within the IT industry, signaling your commitment to

professional development.

## Practical Application and Implementation Strategies

The knowledge gained from preparing for and passing the 70-642 exam translates directly into practical skills. Consider these scenarios:

- **Designing a small office network:** You'll use your knowledge of IP addressing, subnetting, and DHCP to plan and implement a network that efficiently addresses the needs of the office.
- **Troubleshooting a connectivity issue:** Your understanding of network troubleshooting techniques will allow you to quickly identify and resolve network problems, minimizing downtime.
- **Securing a network against unauthorized access:** You'll implement security measures, such as firewalls and IPsec, to protect sensitive data and systems.

- **Implementing a VPN solution for remote access:** This ensures secure access to internal resources for employees working remotely.

## Study Resources and Exam Preparation

Several resources are available to help you prepare for the MCSA 70-642 exam. These include official Microsoft learning materials, third-party training courses, and practice exams. Hands-on experience is crucial; setting up a virtual lab environment using VMware or Hyper-V is highly recommended to practice configuring and troubleshooting network services. Focus on understanding the concepts rather than just memorizing commands. Regularly reviewing your notes and working through practice exams will significantly improve your exam readiness. Don't neglect the importance of understanding **DNS server configuration** as it's a heavily tested area.

## Conclusion

The MCSA 70-642 certification remains a valuable asset for IT professionals seeking to excel in network infrastructure management. While Windows Server 2008 is no longer the latest version, the fundamental networking concepts tested in the 70-642 exam remain relevant and applicable to newer server versions. By mastering the concepts covered in this exam, you'll build a solid foundation for a successful career in IT network administration. The benefits extend beyond the certification itself, enhancing your problem-solving abilities and overall understanding of network infrastructure design and implementation.

## FAQ

**Q1: Is the 70-642 exam still relevant given newer Windows Server versions?**

**A1:** While newer Windows Server versions exist, the core networking

concepts covered in 70-642 – IP addressing, DNS, DHCP, routing fundamentals – remain essential. Understanding these foundational elements is crucial regardless of the operating system. The knowledge gained is transferable to modern environments.

### **Q2: What are the best study resources for the 70-642 exam?**

A2: Official Microsoft learning materials, including their training courses and documentation, are excellent starting points. Numerous third-party training providers offer courses and practice exams. Hands-on lab work using virtual machines is invaluable for solidifying your understanding.

### **Q3: How much hands-on experience is needed?**

A3: Significant hands-on experience is crucial. Simply reading about network configuration isn't enough. You need to actively configure and troubleshoot network services in a lab environment to truly grasp the concepts. The more practical experience you gain, the better prepared you will be for the exam.

### **Q4: What if I fail the exam?**

A4: Don't be discouraged! Many people attempt the exam more than once. Review your weak areas, focus on the concepts you struggled with, and utilize additional study resources. Persistence pays off.

### **Q5: What are the career paths after obtaining the 70-642 certification?**

A5: This certification opens doors to various roles including Network Administrator, System Administrator, Network Engineer, and IT Support Specialist. It's a strong foundation for further certifications and career advancement.

### **Q6: How important is understanding Active Directory in relation to this exam?**

A6: While not the primary focus, understanding Active Directory's role in network security and management is important. You should be familiar with

how Active Directory integrates with network services and contributes to overall network administration.

**Q7: What is the best way to prepare for the troubleshooting sections of the exam?**

A7: Practice, practice, practice! Create simulated network environments with known issues. Use network diagnostic tools (`ping`, `tracert`, `ipconfig`) to identify problems and solve them. Analyze the results carefully to understand the root cause of each issue.

**Q8: Are there any specific tools I should be familiar with for this exam?**

A8: Yes, familiarity with `ipconfig`, `ping`, `tracert`, `nslookup`, and other basic network diagnostic tools is essential. Understanding how to interpret their output is crucial for troubleshooting network problems effectively.

## **Mastering the MCTS 70-642 Cert: Your Guide to Windows Server 2008 Network Infrastructure Configuration**

The Microsoft Certified Technology Specialist (MCTS) 70-642 examination focuses on establishing a robust and protected network infrastructure using Windows Server 2008. This certification is a significant milestone for IT experts seeking to demonstrate their proficiency in this vital area. This article serves as a thorough guide, investigating the key concepts and practical uses covered in the test and offering methods for triumph.

### **Understanding the Exam's Scope:**

The MCTS 70-642 examination encompasses a broad spectrum of topics related to Windows Server 2008 network infrastructure administration. Key areas include:

- **Active Directory Domain Services (AD DS):** This forms the foundation of most Windows Server networks. The examination assesses your understanding of AD DS structure, installation, maintenance, and protection. You'll need to understand how to construct and control domains, structure organizational units (OUs), and apply Group Policy Objects (GPOs) to apply security rules and control user privileges. Think of AD DS as the central directory that keeps track of all users, computers, and their access rights within the network.
- **Networking Services:** This segment includes the installation and management of various network services, including Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), and Windows Internet Name Service (WINS). Understanding how these services function together is crucial for a smoothly operating network. DHCP dynamically assigns IP addresses to devices, DNS converts domain names to IP addresses, and WINS offers compatibility with older NetBIOS-based systems.

- **Network Security:** Safeguarding your network is paramount. The examination assesses your understanding of security practices, including implementing firewalls, configuring IPsec, and understanding network access control. You'll understand how to construct a layered security approach, mitigating risks from both internal and external threats. Consider this section as building a fortress around your network infrastructure.
- **Storage Solutions:** Efficient storage control is another essential aspect. The test investigates different storage options available in Windows Server 2008, including iSCSI and basic disk control. You need to understand how to set up and control storage pools, volumes, and divisions to optimize storage area and performance.
- **Remote Access Services:** Allowing secure remote entry to network materials is a common requirement. The examination encompasses the configuration and administration of Remote Desktop Services (RDS), which allows users to connect to servers remotely.

### **Practical Implementation and Study Strategies:**

Successful preparation for the MCTS 70-642 examination requires a systematic approach. Evaluate the following:

- **Hands-on training:** The best way to master these concepts is through practical application. Configure a virtual Windows Server 2008 environment and experiment with the various functions described above.
- **Official Microsoft documentation:** Microsoft provides comprehensive documentation on Windows Server 2008. Utilize these materials to supplement your studies.
- **Practice assessments:** Taking practice tests is essential for identifying weaknesses in your understanding and improving your outcomes.
- **Study groups:** Partnering with others can enhance your

understanding and give valuable opinions.

### **Conclusion:**

The MCTS 70-642 examination is a challenging but rewarding undertaking. By following a systematic study plan and gaining practical training, you can successfully train for the assessment and prove your expertise in Windows Server 2008 network infrastructure installation. This certification will considerably enhance your career opportunities in the IT sector.

### **Frequently Asked Questions (FAQs):**

#### **1. Q: Is prior experience with Windows Server necessary?**

**A:** While not strictly required, prior experience will greatly aid your preparation. A basic understanding of networking concepts is essential.

#### **2. Q: What study materials are recommended?**

**A:** Official Microsoft documentation, practice exams, and relevant books are highly recommended.

**3. Q: How long does it take to train for the test?**

**A:** The required preparation time differs depending on your prior experience and learning style. However, plan for several weeks of dedicated study.

**4. Q: What are the career benefits of this certification?**

**A:** The MCTS 70-642 certification proves your expertise and raises your importance to potential employers. It opens doors to more senior roles and greater compensation.

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