

ccna discovery 3 final exam answers Printable PDF

ccna discovery 3 final exam answers are highly sought after by students and networking enthusiasts aiming to pass their certification exams successfully. The Cisco Certified Network Associate (CCNA) Discovery 3 course is designed to deepen understanding of networking concepts, including security fundamentals, automation, and network management. Preparing effectively for the final exam requires not only understanding key topics but also accessing reliable study resources and practice exams. In this article, we will explore essential information about CCNA Discovery 3, provide insights into the exam structure, discuss effective preparation strategies, and share tips to improve your chances of success.

Understanding CCNA Discovery 3 Course Content

CCNA Discovery 3 focuses on advanced networking topics, primarily centered around security, automation, and network management. A solid grasp of these areas is crucial for passing the final exam.

Key Topics Covered

The main areas covered in CCNA Discovery 3 include:

- Network Security Fundamentals
- Implementing Security Measures
- Wireless Networking Concepts
- Network Automation and Programmability
- Network Management and Troubleshooting
- Introduction to Cloud and Virtualization Technologies

Understanding these topics helps students prepare for exam questions that test practical knowledge and theoretical understanding.

Exam Structure and Question Types

Knowing the format of the CCNA Discovery 3 final exam is essential for targeted preparation.

Exam Format

Typically, the exam consists of:

- Multiple-choice questions
- Drag-and-drop questions
- Simulation-based questions (e.g., troubleshooting scenarios)
- Fill-in-the-blank questions

The total number of questions usually ranges from 40 to 60, with a time limit of approximately 90 minutes.

Scoring and Passing Criteria

A passing score usually requires answering around 80% of questions correctly. Since the exam covers practical and theoretical knowledge, a thorough understanding of concepts and hands-on practice are essential.

Effective Strategies for Exam Preparation

To succeed in the CCNA Discovery 3 final exam, consider adopting a comprehensive study plan that includes understanding concepts, practicing hands-on labs, and taking mock exams.

Study Resources

Reliable resources include:

- Official Cisco Networking Academy course materials
- Practice exams and questions from reputable sources
- Lab simulations and virtual labs
- Video tutorials and online courses

Hands-On Practice

Practical experience is invaluable. Use network simulators like Cisco Packet Tracer or GNS3 to practice configuring security features, wireless setups, and automation scripts.

Mock Exams and Practice Questions

Regularly testing yourself with practice questions helps identify weak areas and builds confidence. Many online platforms offer CCNA Discovery 3 practice exams that mimic the real test environment.

Common Topics and Sample Questions

While it's important to study comprehensively, familiarizing yourself with common exam topics and question types can boost your readiness.

Sample Topics

- Configuring Access Control Lists (ACLs) for network security
- Implementing wireless security protocols like WPA2
- Network automation using Python or Cisco DNA Center
- Troubleshooting network connectivity issues
- Managing network devices via SNMP or NetFlow

Sample Questions

- What is the primary purpose of access control lists (ACLs)?
 - a) To optimize network traffic
 - b) To restrict unauthorized access
 - c) To increase bandwidth
 - d) To simplify network design

Answer: b) To restrict unauthorized access

- Which wireless security protocol is considered most secure?
 - a) WEP
 - b) WPA
 - c) WPA2
 - d) WPA3

Answer: d) WPA3

- What is the main benefit of network automation?

- a) Increased manual configuration
- b) Reduced network security
- c) Faster deployment and consistent configurations
- d) Increased hardware costs

Answer: c) Faster deployment and consistent configurations

Note: These are sample questions for illustrative purposes; actual exam questions will vary.

Tips for Success and Final Advice

Achieving a good score on the CCNA Discovery 3 final exam requires dedication and strategic preparation.

1. Understand the Concepts, Don't Memorize

Focus on understanding how and why configurations work, which will help you tackle scenario-based questions effectively.

2. Use Visual Aids

Flowcharts, diagrams, and network topologies can enhance comprehension of complex topics like security protocols and automation workflows.

3. Schedule Regular Study Sessions

Consistent study helps reinforce learning and prevents last-minute cramming.

4. Participate in Study Groups

Collaborating with peers can clarify doubts and expose you to different problem-solving approaches.

5. Review and Revise

Repeatedly review key topics and practice questions to solidify your knowledge.

Final Thoughts

While there is no ethical way to access "CCNA Discovery 3 final exam answers" directly, focusing on comprehensive understanding, hands-on practice, and utilizing legitimate study resources will significantly improve your chances of passing the exam. Remember, the goal is to develop practical

skills and knowledge that will serve you in real-world networking scenarios. Passing the CCNA Discovery 3 final exam is not just about getting a certification but also about becoming proficient in managing and securing modern networks.

Embark on your study journey with confidence, leverage available resources effectively, and maintain a disciplined approach. Success in the CCNA Discovery 3 exam can open doors to advanced networking opportunities and a rewarding career in Information Technology.

CCNA Discovery 3 Final Exam Answers are a topic of significant interest among students and networking enthusiasts aiming to validate their understanding of networking concepts covered in the Cisco Networking Academy curriculum. As the final step in a comprehensive course designed to prepare learners for industry-standard networking skills, the exam serves as both a benchmark of knowledge and a tool to reinforce critical concepts. This article provides an in-depth review of CCNA Discovery 3 final exam answers, exploring their relevance, how to approach them effectively, and the ethical considerations involved in exam preparation.

Understanding CCNA Discovery 3 and Its Significance

CCNA Discovery 3 is part of Cisco's broader networking curriculum aimed at developing foundational to intermediate skills in networking technologies. This course typically covers topics such as network security, wireless networking, network management, and troubleshooting. The final exam assesses the learner's grasp of these areas, ensuring they can apply theoretical knowledge practically.

Why are CCNA Discovery 3 answers important?

- They help students verify their knowledge before taking the official exam.
- They can serve as study aids, reinforcing key concepts.
- They provide a benchmark to identify areas needing improvement.

However, relying solely on exam answers without understanding can hinder long-term learning and professional growth. Therefore, while exam answers can be beneficial for review, they should complement thorough studying and hands-on practice.

Approach to CCNA Discovery 3 Final Exam Preparation

Effective preparation involves a combination of understanding key concepts, practical application, and strategic review. Here are some strategies:

Understanding Core Topics

- Review the course modules thoroughly, focusing on core topics like network security, wireless LANs, and network management.
- Practice configuring and troubleshooting real or simulated networks.

Using Study Resources

- Utilize official Cisco study guides and practice exams to familiarize yourself with question formats.
- Join online forums or study groups to discuss challenging topics.

Practice Exams and Answer Keys

- Use practice exams to simulate test conditions and assess readiness.
- Analyze incorrect answers to identify knowledge gaps.

Exam Answer Resources: Pros and Cons

Many students seek out CCNA Discovery 3 final exam answers online, which can be found in various formats such as forums, blogs, or dedicated websites. It's important to evaluate these resources critically.

Pros:

- Quick Review: Answers provide immediate clarification of questions, saving time during revision.
- Confidence Boost: Seeing correct answers can boost confidence before the actual exam.
- Focus on Weak Areas: Identifying questions you answered incorrectly helps target study efforts.

Cons:

- Risk of Academic Dishonesty: Relying solely on answer keys without understanding violates academic integrity policies.
- Superficial Learning: Memorizing answers without understanding concepts can impair long-term retention and real-world application.
- Inaccuracy and Outdated Content: Not all online answer sets are accurate or reflect the current exam standards.

Features of Reputable Resources:

- Updated regularly to match current exam versions.
- Include explanations alongside answers for better understanding.
- Offer practice questions to test comprehension beyond rote memorization.

Understanding the Content of CCNA Discovery 3 Final Exam Answers

The exam covers a broad range of networking principles. Here's a breakdown of key topics and typical questions you might encounter, along with the role of answers in mastering these areas.

Network Security

Topics include:

- Implementing security features on Cisco routers and switches.
- Understanding VPNs, firewalls, and access control lists (ACLs).
- Recognizing common vulnerabilities and mitigation strategies.

Sample Questions:

- How to configure a basic ACL to restrict access?
- Which security features are supported by Cisco routers?

Role of Answers:

Answer keys help confirm configurations and security policies but should be accompanied by practical exercises.

Wireless Networking

Topics include:

- Configuring wireless access points and clients.
- Securing wireless networks with encryption standards.
- Troubleshooting connectivity issues.

Sample Questions:

- What is the purpose of WPA2 encryption?
- How to troubleshoot a wireless client that cannot connect?

Role of Answers:

Answers clarify configurations and troubleshooting steps but understanding underlying concepts is essential.

Network Management and Troubleshooting

Topics include:

- Using SNMP and other management tools.
- Diagnosing common network issues.
- Interpreting network logs.

Sample Questions:

- Which command verifies connectivity?
- How to interpret an ICMP timeout message?

Role of Answers:

Answers serve as quick references but must be grounded in solid troubleshooting methodology.

Ethical Considerations and Best Practices

While exam answers can be tempting to use, it's important to maintain academic integrity and adhere to ethical standards. Cheating or using unauthorized answer keys can result in disqualification and damage to your professional reputation.

Best Practices:

- Use practice questions and answer keys as study aids, not as shortcuts.
- Focus on understanding why an answer is correct rather than memorizing it.
- Engage in hands-on labs and simulations to reinforce learning.

Benefits of Ethical Studying:

- Genuine mastery of networking concepts.
- Better problem-solving skills in real-world scenarios.
- Preparation that aligns with industry standards and certifications.

Conclusion: Navigating CCNA Discovery 3 Final Exam Answers Effectively

CCNA Discovery 3 final exam answers can be valuable tools if used appropriately within a comprehensive study plan. They serve to reinforce learning, clarify doubts, and identify weak areas. However, reliance solely on answer keys without understanding can undermine your long-term knowledge and ethical standing. The optimal approach involves combining theoretical study, practical hands-on experience, and ethical review practices.

By focusing on understanding core networking principles, practicing configurations, and using exam answers as supplementary resources, learners can maximize their chances of success. Remember that certifications like CCNA are not only about passing exams but also about developing skills that will serve you throughout your networking career. Approaching your studies with integrity and a genuine desire to learn will ultimately lead to greater success and professional growth.

Question Answer What are the main topics covered in the CCNA Discovery 3 final exam? The CCNA Discovery 3 final exam covers topics such as LAN switching technologies, IP routing, network security fundamentals, wireless networking, and network management principles. How can I prepare effectively for the CCNA Discovery 3 final exam? Effective preparation includes reviewing the official course materials, practicing hands-on labs, taking practice exams, and understanding key networking concepts and protocols tested in the exam. Are there any reliable resources for CCNA Discovery 3 final exam answers? It's recommended to focus on understanding concepts rather than relying solely on answers. Official Cisco study guides, online tutorials, and practice exams are valuable resources to prepare thoroughly. What are some common topics that appear in the CCNA Discovery 3 final exam questions? Common topics include VLAN configuration, inter-VLAN routing, ACLs, wireless security settings, routing protocols like OSPF, and network troubleshooting techniques. Is there any risk in using 'exam dumps' for CCNA Discovery 3? Yes, relying on exam dumps can lead to incomplete understanding, violates exam policies, and may result in disqualification. Focus on learning the material thoroughly for long-term knowledge. How important is hands-on practice for passing the CCNA Discovery 3 final exam? Hands-on practice is crucial as it helps reinforce theoretical knowledge, improves troubleshooting skills, and prepares you for scenario-based questions in the exam. Can I find official Cisco practice tests for CCNA Discovery 3? Yes, Cisco offers official practice exams and resources through its learning platform and authorized training partners, which are helpful for exam preparation. What is the best strategy to approach the CCNA Discovery 3 final exam? Develop a study plan that covers all topics, practice extensively with labs, review key concepts regularly, and manage your time effectively during the exam.

Related keywords: CCNA Discovery 3, final exam, answers, Cisco networking, network fundamentals, routing and switching, network security, LAN and WAN, network protocols, Cisco certification

SPACE SHUTTLE DISCOVERY THE CHAMPION OF THE SPACE

Space Shuttle Discovery the Champion of the Space has etched its name in the annals of space exploration as one of the most iconic and versatile spacecraft in history. Renowned for its numerous missions, technological innovations, and contribution to scientific advancement, Discovery remains a symbol of human ingenuity and determination to explore the cosmos. This article delves into the history, achievements, technical specifications, and legacy of the space shuttle Discovery, highlighting why it is celebrated as a true champion of space.

Introduction to Space Shuttle Discovery

The space shuttle Discovery was one of NASA's most distinguished orbiters, part of the Space Shuttle fleet that revolutionized space travel from the 1980s through the early 2010s. Launched for the first time in 1984, Discovery completed a total of 39 missions, accumulating over 365 days in space, and traveling more than 148 million miles.

Historical Background and Development

Origins and Design

Discovery was originally designated as OV-103 and was built to replace the Challenger orbiter after its tragic accident in 1986. Its design incorporated advancements learned from previous shuttles, emphasizing safety, reliability, and versatility. NASA engineers and scientists aimed to create a spacecraft capable of supporting a diverse array of missions, including satellite deployment, space station assembly, and scientific research.

Construction and First Flight

Constructed at the Rockwell International facility, Discovery's maiden voyage took place on August 30, 1984, on mission STS-41-D. Its successful launch marked the beginning of a new era in space exploration, paving the way for numerous pivotal missions.

Major Achievements and Missions

Discovery's operational career is distinguished by several historic and groundbreaking missions:

Deployment of the Hubble Space Telescope

One of Discovery's most notable achievements was the deployment of the Hubble Space Telescope during the STS-31 mission in 1990. This telescope has since provided invaluable data, images, and insights into the universe, revolutionizing astronomy.

Construction and Servicing of the International Space Station (ISS)

Discovery played a vital role in building and servicing the ISS. It carried essential modules and components, including the Unity and Destiny modules, and conducted multiple servicing missions to upgrade and repair the station, ensuring its functionality and longevity.

Scientific Research and Experiments

Over its career, Discovery transported numerous scientific payloads, conducting experiments in microgravity that advanced our understanding of biology, physics, and materials science.

Notable Missions Summary

- STS-41-D (1984): Launch and deployment of communications satellites.
- STS-51-D (1985): Deployment of communications satellites and scientific experiments.
- STS-61 (1993): Servicing the Hubble Space Telescope with corrective optics.
- STS-95 (1998): Scientific investigations and the return of astronaut John Glenn to space.
- STS-114 (2005): First shuttle mission after the Columbia accident, focusing on safety and repair techniques.
- STS-133 (2011): Final mission, delivering the Express Logistics Carrier-4 and the Permanent Multipurpose Module to the ISS.

Technical Specifications of Discovery

Understanding the design and technical features of Discovery highlights its capabilities and resilience:

Physical Dimensions and Weight

- Length: approximately 37.2 meters (122 feet)
- Wingspan: 24.4 meters (80 feet)

- Height: 17.5 meters (57 feet)
- Max takeoff weight: around 2,050,000 pounds (930,000 kg)

Propulsion and Power

- Main engines: Three Space Shuttle Main Engines (SSMEs)
- Solid Rocket Boosters (SRBs): Two, providing the initial thrust during launch
- External tank: Carries fuel for the main engines

Capacity and Payload

- Crew capacity: Up to 8 astronauts
- Payload bay dimensions: 18 meters long and 4.2 meters wide
- Maximum payload weight: Approximately 27,500 pounds (12,500 kg)

Innovations and Safety Features

Discovery incorporated several safety enhancements, such as reinforced thermal protection tiles, upgraded avionics, and backup systems, to ensure crew safety during complex missions.

Legacy and Cultural Impact

Contributions to Space Exploration

Discovery's versatile mission portfolio contributed significantly to the construction of the ISS, the deployment of scientific instruments, and the advancement of human spaceflight. It demonstrated the practicality and importance of reusable spacecraft, setting the stage for future exploration initiatives.

Inspiring Future Generations

As a symbol of human achievement, Discovery has inspired countless individuals worldwide to pursue careers in science, technology, engineering, and mathematics. Its missions have been featured in documentaries, educational programs, and popular culture, cementing its place in history.

Preservation and Public Legacy

After completing its final mission in 2011, Discovery was retired and became part of the National Air

and Space Museum's collection in Washington, D.C. Visitors can tour the spacecraft, learn about its missions, and appreciate the technological marvels that made space exploration possible.

The Future of Spacecraft Inspired by Discovery

While Discovery itself is retired, its legacy influences current and future space endeavors:

- Continued development of reusable spacecraft, such as SpaceX's Starship and NASA's Orion.
- Enhanced focus on international cooperation in space stations and exploration missions.
- Advancements in scientific payloads and in-space servicing techniques inspired by Discovery's missions.

Conclusion

The space shuttle Discovery stands as a testament to human curiosity, innovation, and perseverance. Its extensive service record, historic missions, and technological advancements have left an indelible mark on space exploration. As the champion of space, Discovery not only expanded our understanding of the universe but also paved the way for future explorers to reach farther and achieve more. Its legacy continues to inspire the next generation of scientists, engineers, and explorers committed to unlocking the secrets of the cosmos.

Space Shuttle Discovery: The Champion of Space

The Space Shuttle Discovery stands out as one of the most iconic and celebrated spacecraft in the history of human space exploration. As a symbol of technological innovation, resilience, and pioneering spirit, Discovery has earned its reputation as the "champion of space" through decades of service, groundbreaking missions, and its pivotal role in expanding humanity's reach beyond Earth. From its first launch to its historic missions and eventual retirement, Discovery embodies the ingenuity and determination that have propelled us into the cosmos.

Introduction to Space Shuttle Discovery

The Space Shuttle Discovery was a part of NASA's Space Shuttle program, which operated from 1981 to 2011. Named after one of the five original space shuttles, Discovery was the third operational orbiter and was constructed to replace the Challenger, which tragically disintegrated shortly after launch in 1986. Over its lifespan, Discovery became a symbol of technological achievement and resilience, participating in a total of 39 missions—the most of any space shuttle—covering a wide array of scientific, military, and international collaboration efforts.

Design and Features of Discovery

The design of Discovery incorporated advanced technology and safety features to ensure successful missions and crew safety. It was built with a robust airframe, advanced thermal protection systems, and versatile payload capabilities.

Key Features:

- Length: Approximately 37.2 meters (122 feet)
- Wingspan: 23.79 meters (78.1 feet)
- Maximum Payload Capacity: Up to 27,500 kg (60,600 lbs) to low Earth orbit
- Crew Capacity: Typically 7 astronauts
- Thermal Protection System: Over 30,000 tiles made of silica-based material to withstand re-entry heat
- Unique Engineering Aspects: Modular design allowing for various mission configurations, including satellite deployment, space station servicing, and interplanetary science

Pros:

- Versatile payload bay capable of handling a wide array of scientific instruments and modules
- Reusable design significantly reduced mission costs over time
- Advanced safety systems contributed to a high crew survival rate

Cons:

- Complex maintenance and refurbishment processes
- Aging components required upgrades over its operational life
- High operational costs compared to newer spacecraft

Major Missions and Contributions

Discovery's extensive mission history showcases its central role in advancing space science, international cooperation, and technological development.

Significant Missions:

- Hubble Space Telescope Deployment (1990): One of Discovery's most famous missions, STS-31, launched and deployed the Hubble Space Telescope, revolutionizing astronomy and deep-space observation.

- International Space Station (ISS) Servicing: Discovery delivered modules, supplies, and crew to the ISS multiple times, playing a vital part in constructing and maintaining the station.
- Spacelab Missions: Conducted scientific experiments aboard Spacelab aboard the shuttle, contributing valuable data across various scientific disciplines.
- Return to Flight Missions: Post-Challenger and Columbia accidents, Discovery participated in critical missions to test and improve safety protocols, restoring public confidence in spaceflight.

Achievements and Impact:

- Scientific Advancement: Discovery's missions have expanded our understanding of the universe, from deploying telescopes to studying Earth's atmosphere.
- International Collaboration: The shuttle facilitated cooperation with international partners, launching satellites and modules for the European Space Agency, Japan, and others.
- Technological Innovation: The shuttle's reusable design and onboard systems set standards for future spacecraft.

Discovery's Role in Space Exploration Milestones

Discovery's contributions go beyond individual missions; they are woven into the broader narrative of space exploration.

Hubble Space Telescope Deployment

The deployment of Hubble aboard Discovery's STS-31 mission marked a turning point in astronomy. The telescope has provided unprecedented views of the universe, leading to discoveries about black holes, dark energy, and the age of the universe. Discovery's precise deployment and subsequent servicing missions ensured Hubble's longevity and scientific productivity.

Building the International Space Station

Discovery played a critical role in constructing and resupplying the ISS. Its cargo bay carried solar arrays, modules, and scientific instruments that formed the backbone of the station. Its missions facilitated international partnerships and demonstrated the shuttle's versatility in supporting long-term human presence in space.

Advancing Space Science and Technology

By testing new systems and launching experimental payloads, Discovery contributed to the development of future spacecraft and space technologies. Its missions helped refine thermal protection, navigation, and robotics systems that underpin current space missions.

Retirement and Legacy of Discovery

After completing 39 missions, Discovery was retired in 2011 and is now displayed at the Smithsonian National Air and Space Museum in Washington, D.C. Its legacy endures through its contributions to science, engineering, and international collaboration.

Pros of Discovery's Service:

- Most flown shuttle, demonstrating reliability and operational success
- Played a pivotal role in deploying and servicing critical space assets like Hubble
- Contributed extensively to the construction and resupply of the ISS
- Demonstrated the effectiveness of reusable spacecraft technology
- Fostered international cooperation and scientific progress

Cons and Challenges:

- Aging hardware necessitated extensive upgrades and maintenance
- High costs associated with refurbishment and operation
- Tragic accidents (Challenger and Columbia) underscored the inherent risks of spaceflight
- Limited payload capacity compared to newer launch systems

Features that Make Discovery a Champion:

- Durability and versatility in mission profiles
- Significant scientific and technological achievements
- Adaptability in supporting international space efforts
- Symbol of resilience and human ingenuity

The Cultural and Historical Significance of Discovery

Beyond its technical achievements, Discovery embodies the spirit of exploration and perseverance. It has inspired generations of scientists, engineers, and space enthusiasts. Its missions have been televised worldwide, capturing the imagination of millions and cementing its place in history.

The shuttle's image, often depicted with its distinctive white and black thermal tiles, has become synonymous with human spaceflight's adventurous spirit. Its contribution to science and international cooperation has set a benchmark for future exploration missions, including NASA's Artemis program and commercial space endeavors.

Conclusion: The Enduring Legacy of Space Shuttle Discovery

In conclusion, the Space Shuttle Discovery truly deserves the title of the "champion of space." Its remarkable service record, groundbreaking missions, and technological innovations have left an indelible mark on space exploration. It demonstrated that reusable spacecraft could revolutionize space travel, paving the way for future missions to the Moon, Mars, and beyond.

Discovery's legacy is not only in its achievements but also in the inspiration it continues to provide. As humanity looks toward a future of sustainable space exploration, the pioneering spirit embodied by Discovery remains a guiding light. Its contributions have helped expand our understanding of the universe, build international partnerships, and demonstrate that with perseverance and ingenuity, the sky is no longer the limit—it's just the beginning.

In summary, the Space Shuttle Discovery embodies the triumphs, challenges, and aspirations of human spaceflight. Its storied history, technological prowess, and cultural impact make it a true champion of space exploration—an enduring symbol of what we can achieve when we dare to reach for the stars.

Question What made Space Shuttle Discovery stand out as a champion of space exploration? **Answer** Space Shuttle Discovery was renowned for its reliability, versatility, and its role in numerous historic missions, including deploying the Hubble Space Telescope and assembling the International Space Station, earning it a reputation as one of NASA's most accomplished shuttles. How many missions did Space Shuttle Discovery complete during its service? Space Shuttle Discovery completed a total of 39 missions from 1984 to 2011, making it one of the most flown shuttles in NASA's fleet. What are some of the most significant achievements of Space Shuttle Discovery? Key achievements include launching and servicing the Hubble Space Telescope, delivering modules for the International Space Station, and supporting numerous scientific experiments and space station assembly tasks. Why is Space Shuttle Discovery often referred to as the 'champion of space'? Because of its extensive and successful mission record, pivotal role in space station construction, and its contributions to scientific discovery, Discovery earned the nickname as a symbol of NASA's space exploration leadership. What was the final mission of Space Shuttle Discovery? The final mission was STS-133 in February 2011, during which Discovery delivered supplies and components to the International Space Station before retiring from service. Where is Space Shuttle Discovery now displayed? Space Shuttle Discovery is permanently displayed at the Smithsonian National Air and Space Museum Steven F. Udvar-Hazy Center in Chantilly, Virginia. How did Space Shuttle Discovery contribute to advancing human spaceflight? Discovery's missions helped expand our understanding of space, facilitated the construction of the ISS, and demonstrated the capabilities of reusable spacecraft, paving the way for future exploration endeavors.

Related keywords: space shuttle, Discovery, NASA, space exploration, astronaut, space mission,

rocket, spacecraft, launch vehicle, space program

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