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APPLIED CLOUD AND DEVOPS

Slide 1: Introduction

• Title: Me

Slide 2: NVIT

- Name of Institution: NVIT
- Overview of NVIT's mission and focus
- Mention any relevant achievements or specializations

Slide 3: Your Background

- Your discipline in school
- Any notable achievements or experiences
- Faith or relevant personal information for context

Slide 4: Why DevOps?

Explanation of why you chose DevOps

• Any specific interests or experiences that led you to this field

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Slide 5: Expectations and Goals

- Your expectations from working in DevOps
- What you hope to achieve in this field

Slide 11: Introduction to Cloud

- Definition and importance of cloud computing

• Types of Cloud Service Providers (AWS, Azure, Google Cloud, etc.)

Slide 12: Personal Research

- **Emphasize the importance of effective research skills**
- Mention tools/platforms used for research (Google, StackOverflow,

ChatGPT)

Slide 13: Cautions on Al

- Highlight the role of AI in research
- Caution on not relying excessively on Al
- Emphasize the irreplaceable role of human decision-making

Slide 1: Introduction To DevOps

- Title: DevOps OverviewSubtitle: Bridging the Gap between Development and Operations

Slide 2: Development Team

- Produces code for various applications (web, mobile, desktop).
- Dependencies and software versions specific to their environment.

Slide 3: Operations Team

- Ensures application functionality, security, and adherence to specs.

• Uses tools for deployment, monitoring, and maintenance.

Slide 4: Challenges

- Different environments lead to compatibility issues.
- Blame-shifting and lack of collaboration cause delays.

Slide 5: DevOps as a Solution

- Cultural and technical approach.
- Collaboration, automation, and CI/CD practices.

Slide 6: Key DevOps Concepts

• Culture, Automation, CI/CD.

Slide 7: Automation

- Reducing manual errors.
- Speeding up processes.

Slide 8: CI/CD

- Frequent, reliable code releases.
- Reduced deployment times.

Slide 9: Operating System

• Preferred: Linux for stability and open-source nature.

Slide 10: Version Control

• Git and GitHub for version control.

Slide 11: Containerization

• Docker for packaging applications.

Slide 12: Container Orchestration

• Kubernetes for managing containers.

Slide 13: Automation/CI Tools

• Jenkins for deployment automation.

Slide 14: IaC (Infrastructure as Code)

• Terraform and Ansible for infrastructure provisioning.

Slide 15: Monitoring

• Grafana and Prometheus for system monitoring.

Slide 16: Learning DevOps

- Understanding cultural aspects and tools.
- Emphasis on collaboration, automation, CI/CD.