
Exercise Introduction

You will complete two exercises focused on security in IT services:

- **Security Concerns of an FTP Server:** Identify potential security risks and propose mitigation strategies as an IT administrator.
- **Performance Data Dashboards and Security:** Analyze security risks associated with the TIG (Telegraf, InfluxDB, Grafana) and suggest improvements.

Consider aspects such as access controls, data protection, and network security. Let's get started!

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Task 1: Security concerns of an FTP server (10 min)

Assume that you are an IT administrator responsible for securing an FTP server (listed in a service catalog). Your goal is to ensure that the FTP server is used in a secure and compliant manner.

1. What are the potential security risks associated with this service?
2. What are solutions and best practices for mitigating these risks?

Hints

- Think about access controls, network security, data protection, emergency plan, etc.

Task 2: Performance Data Dashboards and Security (10 min)

Having deployed the TIG (Telegraf, InfluxDB, Grafana) stack, following the monitoring tutorial, you've offered it as a service called "Performance Data Dashboards" to both HPC customers and engineers. Enumerate potential security risks associated with this setup and propose solutions to enhance the security of the stack.

Hints

- Think about the fact that InfluxDB and Grafana are running on the same frontend node, with shared resources. Consider risks around authentication, authorization, network traffic etc.