GWDG
AG Computing
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Exercise 1 / Feburary 21st, 2023
HPC System Administration / WiSe 2022/23
45 Minutes Total

Exercise Introduction

Contents

Task 1: Security concerns of an FTP server (15 min)

Assume that you are an IT administrator responsible for securing an FTP server listed in a service catalog (arguably the one from the previous exercise). 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: Service catalog for Performance Data Dashboards and Security (30 min)

You have installed the TIG stack from the monitoring tutorial. Now you want to provide this as Service "Performance Data Dashboards" to the HPC customers and engineers.

1. Add this service to the service catalog.

2. Enumerate potential security risks and formulate solutions to make the stack more secure.

Hints

- Recap the installation

- Think about the fact that Grafana and InfluxDB are installed on the same frontend, authentication, network traffic, etc.