Service Level Agreements (SLAs)



- Contractual document between a service provider and a service consumer
 - Customer and cloud service provider (CSP)
 - Customer and Internet service provider (ISP)
 - Sales department and usage of internal IT resources
- Each cloud service has its own SLA



Service Level Agreements (SLAs)







Service Level Agreements (SLAs)



- Performance and reliability
- Percentage of uptime within a calendar month or year
 - E.g. 99.99%
- < 99.99% = 3 day service credit
- < 95.00% = 7 day service credit

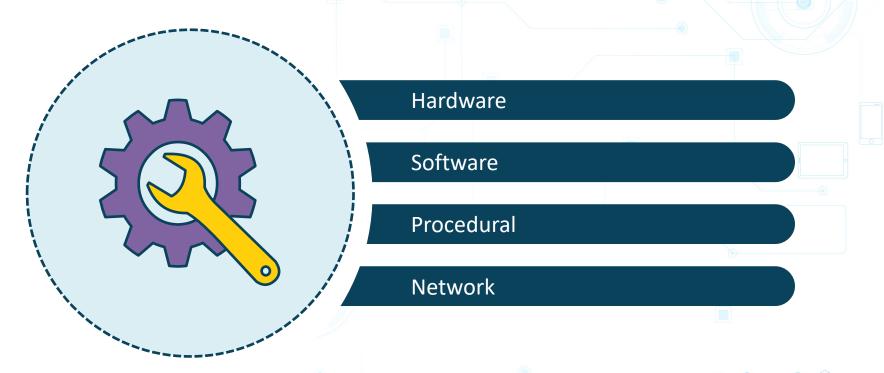


Change Management



- Enact standard procedures for implementing change
 - Reduced risk related to IT changes
 - Increased efficiency
 - Compliance (laws and regulations)
 - Reduced IT-related downtime
- The focus is on the process to implement change

Types of IT Changes







Change Management Event Flow

Change request creation



Change request evaluation



Change request approval



Change implementation and review



Configuration Management



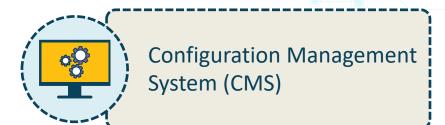
"A machine is made up of components or parts. Each part is arranged in a specific configuration to make the machine whole.

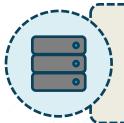
In simple terms, **configuration** means arrangement of the parts while **change** means modification of the parts or the whole machine."

-Praveen Malik, certified Project Management Professional



Configuration Management Components





Configuration Management Database (CMDB)



Configuration Items (CIs)

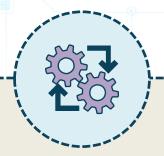


Configuration Management



- Defined responsibilities for configuration management tasks
- Verification of configuration item validity
- Documentation of configuration changes implementation

Vulnerability Management



- IT or process weakness identification and mitigation
 - Reduced cost, legal liability, and improved compliance
- Auditors must consider internal and external threat actors
 - Risk-based approach
 - Which vulnerabilities should be addressed first?



Vulnerability Examples



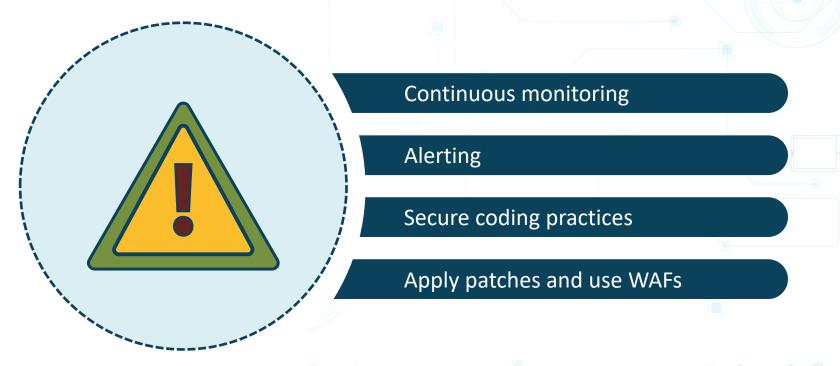
- Software patches out of date
- No encryption for sensitive data at rest
- Failure to disable user accounts upon termination
- Default configurations
- Unneeded running network services

Vulnerability Management



- History of attacks
 - Overall in the industry
 - Within the specific organization
 - How much downtime was experienced?
- Organizational security policies
- User awareness and training

Vulnerability Management Program







In this exercise, you will

- Explain the purpose of a Service Level Agreement (SLA)
- Establish a performance baseline on Windows Server 2016
- Enable Microsoft Group Policy GPO link delegation
- Use SCCM to centrally deploy a web link to an Intranet site





Service Level Agreement (SLA)

- Contractual document between a service provider and a service consumer
- Uptime
- Service credits



