



IT & Infrastructure Whitepaper

The Importance of conducting an IT Infrastructure Assessment before planning any IT Infrastructure changes.

simoda

Contents

Introduction	03
The Significance of IT Infrastructure Assessment	04
Benefits of Conducting an IT Infrastructure Assessment	06
6 Key Components of an IT Infrastructure Assessment	08
4 Stage plan for a Successful Assessment	10
Conclusion	12

Introduction

IT infrastructure is the backbone of modern organisations, serving as the foundation for delivering applications, services, and data to support business operations.

As technology continues to advance rapidly, businesses must frequently adapt their IT infrastructure to remain competitive, secure, and efficient. However, making changes to IT infrastructure without a thorough assessment can lead to costly mistakes, operational disruptions, and security vulnerabilities.

The Significance of IT Infrastructure Assessment

An IT infrastructure assessment is a systematic evaluation of an organisation's existing infrastructure assets and resources. It aims to provide a comprehensive understanding of the current state of the environment.

Before planning any infrastructure changes, an assessment is essential for several reasons:

01

Informed Decision-Making

An assessment provides decision-makers with accurate and up-to-date information about the existing infrastructure's strengths and weaknesses. This data enables informed decisions on what changes are necessary and how they should be implemented to align with the organisation's goals.

02

Risk Mitigation

Identifying vulnerabilities, compliance gaps, and potential security risks within the existing infrastructure allows organisations to proactively address these issues before they lead to costly breaches or downtime.

03

Cost Control

By assessing the current infrastructure, organisations can identify areas where cost savings can be achieved through optimisation or consolidation, preventing unnecessary spending on new technology.

04

Performance Optimisation

Understanding the performance bottlenecks and limitations of the existing infrastructure enables organisations to design and implement changes that enhance efficiency and user experience.

Alignment with Business Objectives

An IT infrastructure assessment helps ensure that any changes made align with the organisation's strategic goals, ensuring that technology investments support business objectives, these include the drive for IT sustainability.

Benefits of Conducting an IT Infrastructure Assessment

The benefits of conducting an IT infrastructure assessment are numerous and extend across various aspects of an organisation:

01

Improved Security:

Identifying and addressing security vulnerabilities and compliance gaps can enhance the overall security posture of the organisation, protecting sensitive data and mitigating the risk of cyberattacks.

02

Enhanced Efficiency

During the assessment opportunities to optimise the infrastructure estate can be uncovered and will lead to increased operational efficiency, reduced downtime, and improved productivity across the organisation.

Benefits of Conducting an IT Infrastructure Assessment continued

03

Cost Savings

By identifying areas where resources are underutilised or redundant, organisations can reduce operational costs and allocate resources more effectively.

05

Strategic Planning

An IT infrastructure assessment provides valuable insights for long-term strategic planning, ensuring that technology investments align with the organisation's growth and innovation objectives.

04

Scalability

Assessments help organisations plan for future growth by ensuring that infrastructure changes can accommodate increased demands and scalability requirements, this includes modelling application workloads in the public cloud.

The 6 Key Components of an IT Infrastructure Assessment

A comprehensive IT infrastructure assessment should cover various aspects of an organisation's technology environment:

Infrastructure Planning

Host analysis, licensing & inventory, VM right sizing, shared storage analysis

01

Infrastructure Health

Virtual hardware allocation, Health of guest tools, vSphere cluster health, DRS health

03

Performance Troubleshooting

VM issues, IO contentions, data store issues

02



The 6 Key Components of an IT Infrastructure Assessment continued

Capacity Management

Data space analysis, reclaimable storage capacity

04

Workload & Cloud Simulator

Simulate workloads on-prem, as a service and in public cloud services including Azure, AWS & Google Cloud

06

Application Dependency Mapping

Highlight applications & services that are connected.

05

Plan For A Successful Assessment

To ensure a successful IT infrastructure assessment, Simoda Infrastructure Assessment follows a 4-stage plan:

01

Discovery Call

Initial discovery call with infrastructure specialist to define the goals and objectives of the assessment, ensuring alignment with the organisation's strategic priorities.

02

Run the infrastructure assessment tool

Install and run specialised assessment tools and technologies to automate data collection and analysis, ensuring accuracy and efficiency. To proactively address these issues before they lead to costly breaches or downtime.

03

Infrastructure Review Session

A dedicated session or meeting with infrastructure specialist is held to review the findings of the infrastructure assessment.

04

Develop an Action Plan

Create a detailed action plan that outlines the recommended changes and improvements, including timelines and resource allocation.

Regularly Review and Update

IT infrastructure assessments should be conducted regularly to ensure that the organisation's technology environment remains aligned with evolving business needs and technological advancements.



Conclusion

Conducting an IT infrastructure assessment before planning any changes is not just a best practice; it's a strategic imperative for modern organisations. By gaining a comprehensive understanding of the existing infrastructure, organisations can make informed decisions, mitigate risks, optimise performance, and align technology investments with their business objectives. In an era of rapid technological change and evolving security threats, an IT infrastructure assessment is the cornerstone of a resilient, efficient, and secure IT environment.

An astronaut in a full space suit stands on the surface of the moon, looking out at a vast, colorful nebula in space. The scene is dark with a bright, glowing orange and red nebula in the upper right corner. The astronaut's shadow is cast on the lunar surface.

Simplify • Modernise • Accelerate

Get in touch today.

Let's see where we can help you.

0114 553 3600 | www.simoda.co.uk

Follow our socials

@simodalimited





simoda

simoda.co.uk