

NUTANIX

Top 6 Must-Dos for Implementing GenAI in 2025

As GenAI adoption accelerates in 2025, IT leaders need a clear roadmap to implement and scale it effectively. This quick-start guide highlights the **top 6 must-dos** to ensure your applications and infrastructure are GenAI-ready, from containerizing apps and scaling workloads to securing data and building AI expertise. Follow these essential steps to stay ahead in the fast-evolving GenAI landscape.

1 Containerize Applications for GenAI Compatibility

- **Prioritize containerization** for your applications to enhance compatibility with GenAI workloads.
- **Modernize IT infrastructure** to support cloud-native apps and containers.

2 Prepare Infrastructure for GenAI

- **Focus on high-performance computing**, high-throughput storage, and low-latency networking.
- **Integrate GenAI workloads** into your existing IT infrastructure and develop lifecycle management processes for GenAI models.

3 Strengthen Data Security and Privacy

- **Invest in data security and governance frameworks**, especially around large language models (LLMs) and sensitive data.
- **Implement encryption and robust access controls** to safeguard data.
- **Ensure compliance** with regulatory requirements for GenAI usage.

4 Address Skill Gaps

- **Provide internal training** for current IT teams on GenAI and cloud-native applications.
- **Leverage existing AI models** and consider hiring AI talent where necessary.

5 Ensure Compliance and Resilience for GenAI Workloads

- **Implement high availability and disaster recovery** strategies to meet the demands of enterprise-level GenAI solutions.
- **Use cloud-native tools** for compliance and resilience in case of unexpected failures or regulatory requirements.

6 Adopt Cloud-Native Architecture for Flexibility and Scalability

- **Move towards a cloud-native architecture** to enable seamless scaling for GenAI applications.
- **Embrace hybrid or multicloud strategies** for broader flexibility and risk mitigation.