

HEXAWARE

Streamlining Azure DevOps CI/ CD Pipeline for a Leading Professional Services Firm

Case study



Client

| Client

- Challenge
- Solution
- Benefits
- Summary

Professional Services Major

The client is a prominent global professional services firm that specializes in audit, tax, and advisory solutions. With a strong focus on innovation and operational excellence, the organization aimed to modernize its software development lifecycle and enhance its cloud infrastructure management using Azure DevOps and automation.



Challenge

Client

Challenge

Solution

Benefits

Summary

Managing Complex Pipelines and Ensuring Robust Security

The client faced several challenges in their Azure DevOps and cloud operations:

- **Complex CI/CD Pipelines:** The need to create and manage multi-stage CI/CD pipelines for multiple repositories and environments.
- **Access Control:** Establishing secure and granular access control for teams like Data Factory (DF), Testing, and Infrastructure & Operations (I&O) within Azure DevOps.
- **Manual Code Review:** Dependency on manual processes for code reviews, leading to inefficiencies.
- **Infrastructure Provisioning:** Provisioning multiple environments across different Azure subscriptions using Infrastructure as Code (IaC).
- **Global Resource Management:** Monitoring and managing Azure resources deployed across multiple global subscriptions.
- **Security Concerns:** Configuring Azure Security Center to detect, prevent, and respond to security threats effectively.



Solution

- Client
- Challenge
- Solution**
- Benefits
- Summary

Hexaware's Automation and Security-focused Approach

Hexaware implemented a comprehensive solution tailored to the client's needs, leveraging Azure DevOps automation and advanced cloud practices:

- **Unified Project Setup:** Created a single Azure DevOps project with multiple repositories for I&O, DF, and Testing teams, incorporating a well-defined branching strategy.
- **Access Management:** Configured user roles and access levels to isolate repositories and restrict unauthorized access.
- **Automated Code Review:** Integrated SonarQube into the CI/CD pipeline to automate the code review process, eliminating manual dependencies.
- **Infrastructure Provisioning:** Delivered Terraform scripts to provision multiple environments across Azure subscriptions efficiently.
- **Security Enhancements:** Configured Azure Defender and Azure Sentinel Policies to secure the Azure infrastructure and ensure compliance.
- **Monitoring and Alerts:** Deployed KPI dashboards, infrastructure monitoring, and automated alerts and notifications using IaC.
- **Task Automation:** Automated repetitive manual tasks using PowerShell scripting to improve productivity and reduce errors.



Benefits

- Client
- Challenge
- Solution
- Benefits**
- Summary

Enhanced Efficiency, Cost Savings, and Robust Security

The client achieved significant improvements in their operations through Hexaware’s solutions:

- **Faster Deployments:** Deployment windows were significantly reduced due to the use of IaC.
- **Cost Optimization:** Automation reduced manual intervention during deployments, leading to savings on Azure billing.
- **Error Elimination:** Automation minimized human errors during deployments, achieving a 100% reduction in deployment-related issues.
- **Improved Pipeline Management:** CI/CD pipeline management efficiency improved by 70% through automation.
- **Strengthened Security:** Azure Security Center configurations ensured robust threat detection and response for their Azure resources.



Summary

- Client
- Challenge
- Solution
- Benefits

| **Summary**

Revolutionized Azure DevOps Processes

Hexaware partnered with the client to revolutionize their Azure DevOps processes by implementing advanced automation, robust security measures, and efficient infrastructure management. By addressing challenges such as complex CI/CD pipelines, global resource management, and security concerns, Hexaware enabled the client to achieve faster deployments, cost savings, and enhanced operational efficiency.



About Hexaware

Hexaware is a global technology and business process services company. Every day, Hexawarians wake up with a singular purpose: to create smiles through great people and technology. With this purpose gaining momentum, we are well on our way to realizing our vision of being the most loved digital transformation partner in the world. We also seek to protect the planet and build a better tomorrow for our customers, employees, partners, investors, and the communities in which we operate. With offices across the world, we empower enterprises to realize digital transformation at scale and speed by partnering with them to build, transform, run, and optimize their technology and business processes.

Learn more about Hexaware at www.hexaware.com.

Get in touch