

CLUSTER REPLY

GitHub Copilot Workshop





OUR MISSION

The mission of **Cluster Reply** is to advise companies on an national and international level on **Microsoft technologies**, to develop and to support them in system integration. Cluster Reply creates individual benefits for its customers and guides them through the digital age with our professional, as well as technical know-how and the wide network of the Reply group.



Consulting



Systems
Integration



Development &
Implementation



Operation

OUR CLOUD JOURNEY

CLUSTER REPLY DE



Cloud Applications

- › Application Development
- › Azure Integration
- › Agile Transformation
- › DevOps
- › Industry Cloud
- › Cloud IoT

Artificial Intelligence

- › Image Processing
- › Machine Learning Modeling
- › Smart Apps using cognitive services
- › Bots

Cloud Infrastructure

- › Cloud Transition
- › Cloud & Hybrid Network
- › Data Security and privacy
- › Cloud Governance
- › Modern Workplace
- › Adoption and Change Management

Data

- › Business Intelligence
- › Modern Datawarehouse
- › Big Data & Analytics
- › Internet of Things
- › Modern Reporting
- › Data Governance

Business Applications

- › Sales
- › Customer Service
- › Marketing
- › Field Service
- › Project Service Automation
- › Intelligence
- › Sales CoPilot

Security

- › Defender Endpoint Protection
- › Defender for Cloud
- › Sentinel – XDR
- › Defender for IoT
- › Application Security



ENVISIONING WORKSHOP

UNLOCK THE POTENTIAL

Unlock the potential of GitHub Copilot for your development team and catalyze your digital transformation.

Envisioning Workshop: Harnessing GitHub Copilot for Digital Excellence

In this focused session, we align your business goals with the transformative capabilities of GitHub Copilot. By examining your objectives, we'll craft a strategic, actionable blueprint to integrate Copilot's AI-assisted coding into your development processes, enhancing efficiency and innovation.

Workshop Highlights:

- **Interactive Review:** Aligning Copilot's capabilities with your business and technological ambitions
- **Strategic Planning:** Crafting a tailored plan to leverage GitHub Copilot for cloud-native development acceleration
- **Outcome-Driven Discussions:** Identifying opportunities to overcome challenges, enhance strategic initiatives, and maximize value through digital transformation with GitHub Copilot
- **Azure Integration:** Explore opportunities to integrate GitHub CoPilot capabilities with Azure DevOps and Azure Data Studio

Outcomes:

- **Unified Vision:** A clear, shared understanding of how GitHub Copilot can revolutionize your development practices
- **Strategic Action Plan:** Prioritized insights and strategies for Copilot integration, focused on achieving measurable business outcomes
- **Guidelines for Action:** A roadmap combining desirability, viability, and feasibility to guide your Copilot adoption journey



ENVISIONING WORKSHOP UNLOCK THE POTENTIAL

Following the workshop, we extend our partnership to implement the strategic roadmap defined during our session. Our comprehensive post-workshop services ensure that the actionable insights and plans from the Envisioning Workshop are executed to perfection, transforming your cloud-native development landscape with GitHub Copilot.

Post-Workshop Implementation Services:

- **Roadmap Realization:** We provide hands-on support to bring the envisioned GitHub Copilot integration and optimization strategy to life, ensuring seamless execution according to the defined milestones and objectives
- **Business Case Development:** Crafting a compelling business case to secure stakeholder buy-in and investment for the GitHub Copilot initiative, detailing benefits, expected ROI, and impact on development processes
- **Technology Integration:** Guiding the technical deployment of GitHub Copilot within your existing cloud-native development environment, ensuring compatibility and maximum utility. Learn about integration value when combined with Azure DevOps and Azure Data Studio
- **Change Management and Training:** Offering tailored change management strategies and training programs to accelerate adoption among your development teams, maximizing the benefits of GitHub Copilot's AI-assisted capabilities

Our aim is to ensure that the transition to a more efficient, innovative development workflow is smooth, and that you quickly realize the value and competitive advantage it brings to your organization.



ACCELERATE WORKFLOWS / COPILOT BUSINESS

WRITING CODE
WITH A
GENERAL
KNOWLEDGE OF
SOFTWARE
DEVELOPMENT.

55%

faster coding

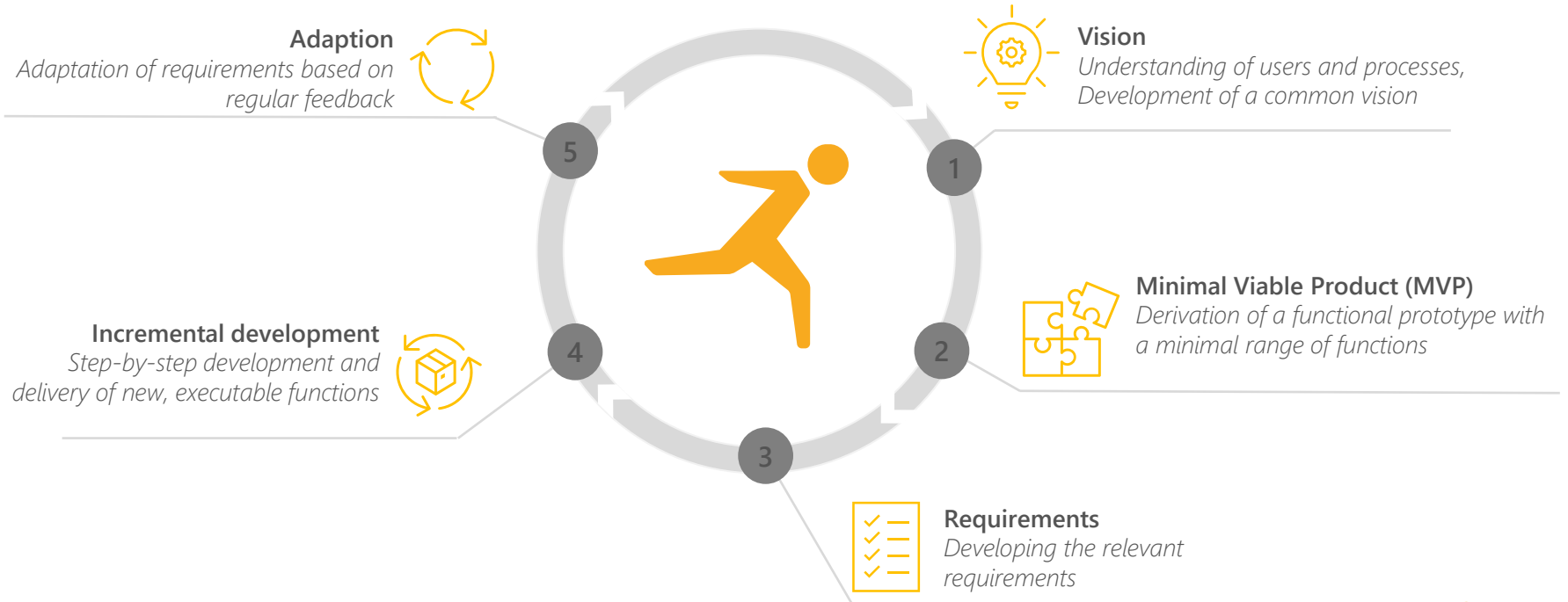
46%

of code written by AI

15%

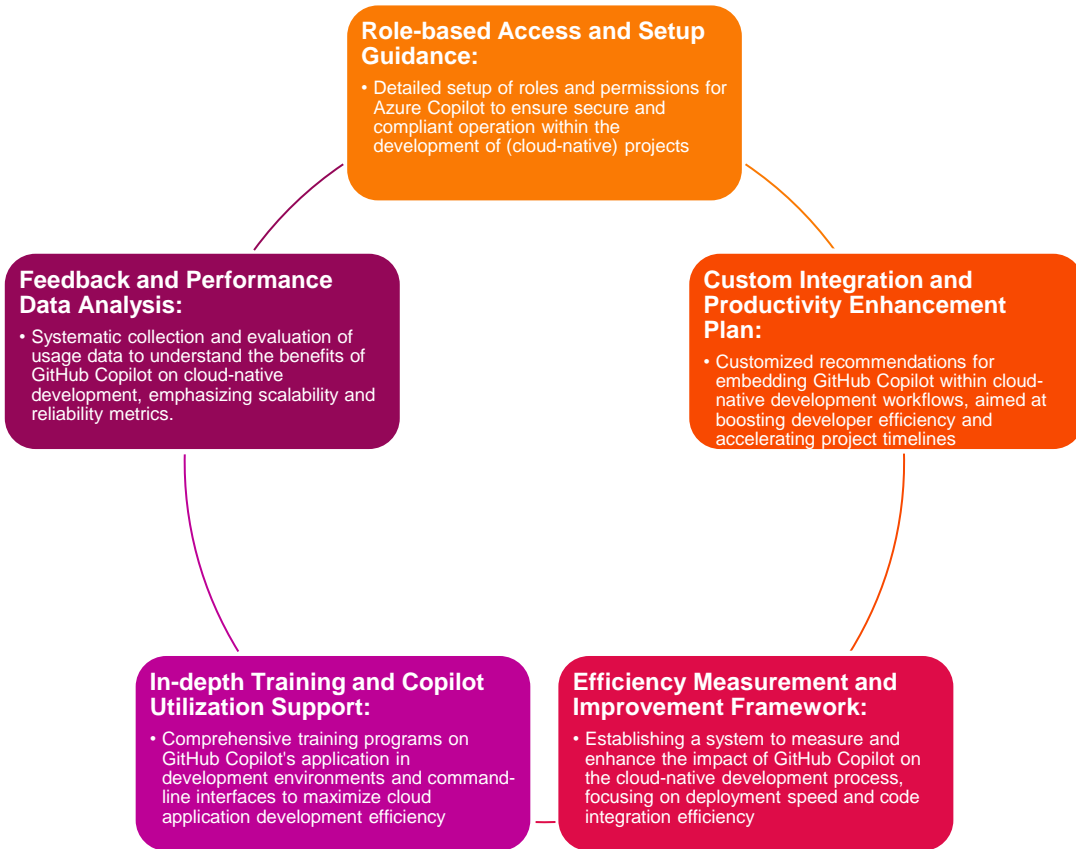
higher code quality

AGILE DEVELOPMENT BY CLUSTER REPLY



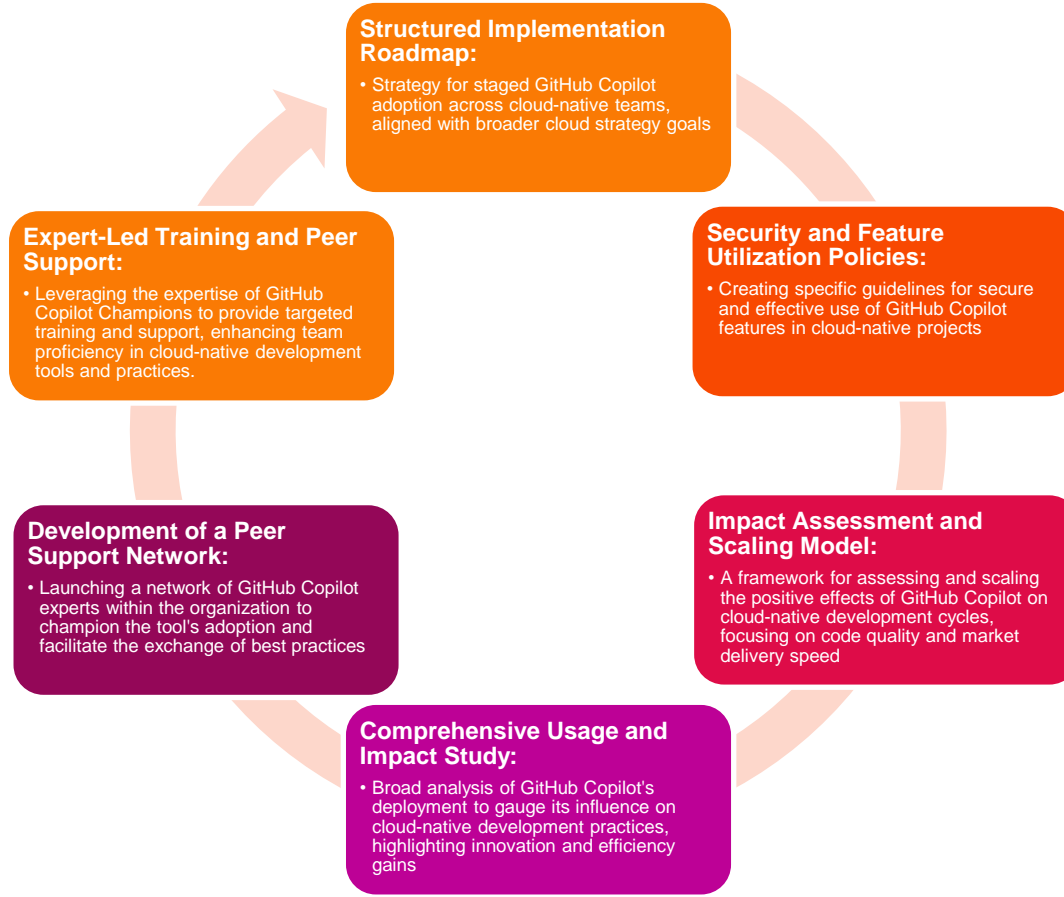


GITHUB COPILOT OFFERING STRATEGY & ADOPTION





GITHUB COPILOT OFFERING ORGANIZATIONAL ENABLEMENT & SCALING

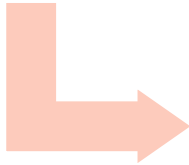




EXAMPLE WORKSHOP AGENDA

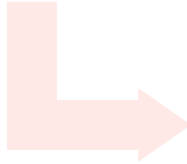
Day 1 - Envisioning

- Demonstration
- Understanding Customer needs
- Defining Vision & Goal
- Defining Target KPIs



Day 2 – Roadmap

- Stakeholder Definition
- Evaluating Integration Options
- Adoption Plan
- Developing step-by-step deployment plan



Optional & Post- Workshop

- Proof-Of-Concept
- Implementation Services
- User Training



GITHUB COPILOT AZURE INTEGRATION SCENARIOS

Infrastructure as Code (IaC)

Automate the creation of Azure Resource Manager (ARM) templates, Terraform or Bicep configurations, reducing manual errors and speeding up the setup of cloud environments

Automation Scripts

Generate scripts for Azure CLI or PowerShell to automate deployment, configuration, and management tasks of Azure resources

Azure Code Migration Support

Customized guidance on addressing issues identified during migration assessment. Select specific Azure target environments, enhancing the relevance of issue identification and recommendations

CI/CD Pipelines

Suggest configurations for Azure Pipelines (YAML files) to automate build, test, and deployment processes, ensuring faster release cycles

Configuration Files

Help in creating and optimizing Dockerfiles and Kubernetes deployment files, facilitating containerized application deployment on Azure



GITHUB COPILOT AZURE INTEGRATION SCENARIOS

Security and Compliance

Propose code and configuration changes to enhance security and compliance, including Azure policies and role-based access control (RBAC) setups.

Monitoring & Logging

Suggest setups for Azure Monitor and Application Insights to improve logging, monitoring, and alerting capabilities for applications and infrastructure.

Database Management

Generate scripts for managing Azure databases (e.g., Azure SQL, Cosmos DB) including schema migrations, backups, and performance tuning queries.

Cost Optimization

Provide recommendations for optimizing Azure resource usage to reduce costs, such as identifying underutilized resources or suggesting more cost-effective configurations.

Integration with Azure Services

Assist in integrating with various Azure services, such as Azure Functions for serverless computing, Azure Logic Apps for workflow automation, and Azure Event Grid for event routing.