Microsoft

Azure Essentials
resource kit

Elevate **reliability, security**, and **ongoing performance of workloads** for your cloud and AI investments to **maximize value** and **empower transformation.**

Accelerate business outcomes - Azure Essentials resource kit

In this resource kit, you'll discover Microsoft's best practices for approaching key business priorities from AI to resiliency with guidance to help you maximize your business value on Azure with Azure Essentials.

For expert support powered by Azure Essentials with migration-related projects, try Azure Migrate and Modernize; for support with AI and analytics projects, try Azure Innovate.

This kit provides step-by-step guidance for you to enhance your cloud and AI investments across common scenarios to help you:

- Successfully adopt AI and build new AI-infused apps.

- Migrate your SAP workloads, infrastructure, and databases.

- Unify your data platform and empower your developers.

- Proactively keep critical workloads reliable and secure.

Curated guidance to help you improve your stance on Azure

Azure offers a solution to support your end-to-end cloud journey:

Azure Essentials helps you elevate reliability, security, and ongoing performance of workloads for your cloud and AI investments to maximize value and empower transformation. It provides comprehensive resources in one place, extensive coverage, and expert help from Microsoft or partners.

This offering includes:

Comprehensive resources in one place

- Take advantage of guidance and free training to design and build secure, reliable workloads.
- Get insights and recommendations from products, tools, and interactive assessments.
- Manage your cloud investments efficiently by choosing the pricing offers that best meet your needs.

Direct access to experts

- Receive assistance from Microsoft experts or specialized partners.
- Benefit from Microsoft-led delivery of engagements for Microsoft Unified customers.

Extensive coverage—from migration to innovation

- Cover all your cloud journey needs from reliability and security to ongoing performance management and AI.
- Design for resiliency and performance proactively from the start.
- Enhance your existing deployments to address core business priorities.

Common scenarios for new Azure projects

From transforming your stance on Azure to cloud management,
choose the scenario that best matches your needs:

[Innovate with AI platform](#)

[Build and modernize AI apps](#)

[Activate data for AI innovation](#)

[Migrate to innovate](#)

[Migrate SAP workloads](#)

[Accelerate software development](#)

Common scenarios for existing Azure projects

Building and managing resilient workloads is key to success in the cloud to address possible issues related to reliability and security, **choose the scenario** that best matches your needs:
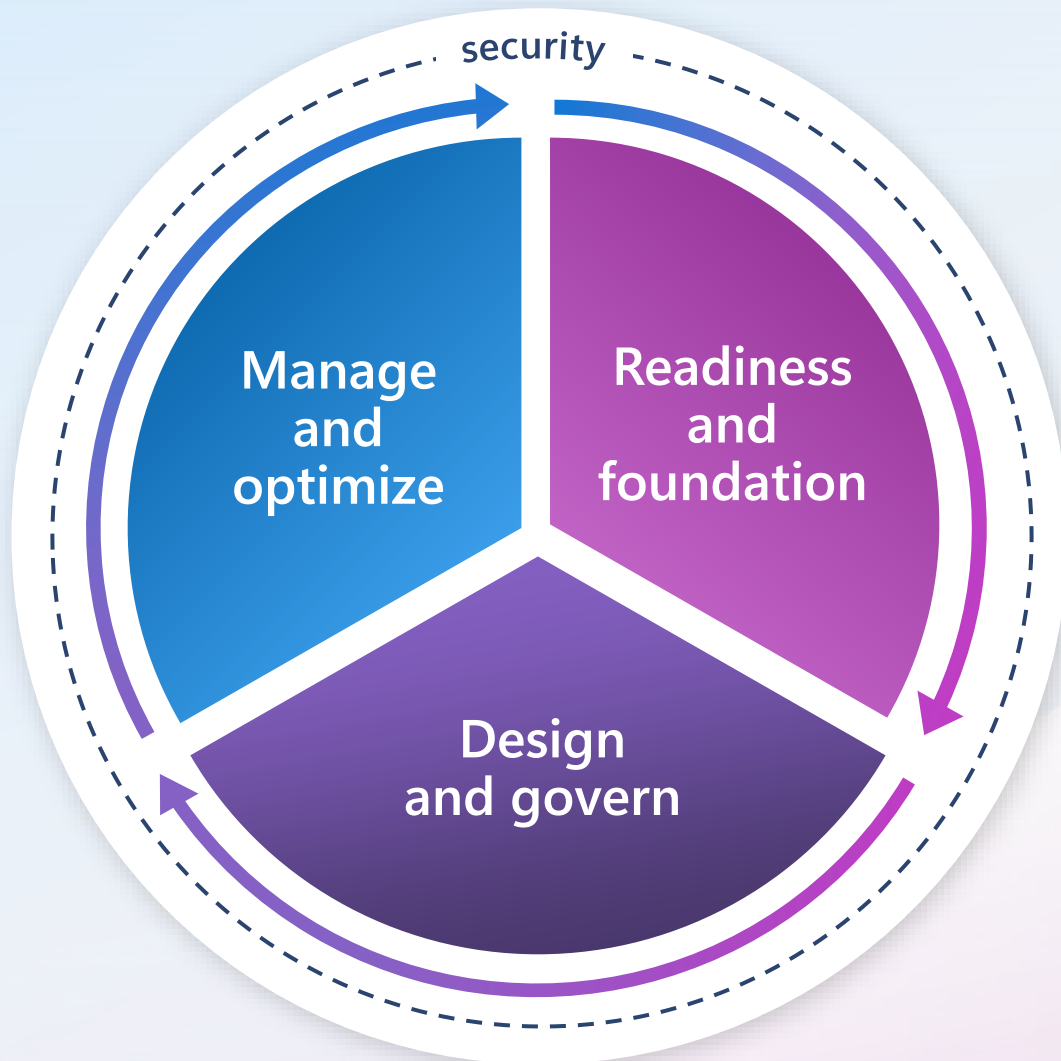
Azure Proactive Resiliency

→ **Infrastructure**

→ Applications
COMING SOON

→ Data
COMING SOON

→ Security
COMING SOON

Innovate with
AI Platform

Best practices for getting AI-ready

Use the concepts in each phase to ensure successful AI adoption on Azure at scale.

security

Manage and optimize

Readiness and foundation

Design and govern

- Data collocation
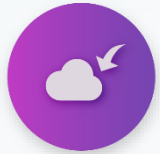- FinOps adoption
- Pricing
- Platform landing zone
- Skilling and training

- Responsible AI principles
- Azure AI Content Safety
- Data governance, security, privacy, and compliance
- Architectural guidance
- GenAIOps

- Monitoring and security
- Management and optimization
- Proactive resiliency for critical workloads

Readiness and foundation

Azure Essentials assists in optimizing your cloud investments during each phase.

Data collocation

Migrate infrastructure and collocate data and apps.

Build a business case

Azure Migrate overview

Migration tools

Migration FAQ

FinOps adoption

Control and manage your Azure and AI spend.

Cost optimization of AI workloads

How to forecast AI services costs in the cloud

FinOps Framework

FinOps Review

Pricing

Make pricing decisions with confidence.

Azure pricing calculator

PTU Reservations blog

Azure OpenAI capacity calculator

Azure pricing overview

Pricing blog

Platform landing zone

Use a pre-configured environment for efficient cloud management.

Landing zone deployment options

ISV considerations

Get landing zone help

Landing zone FAQ

Skilling and training

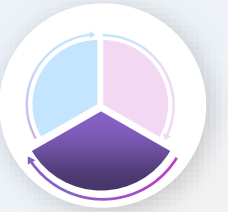Empower individuals to successfully adopt AI.

Azure AI fundamentals

Azure AI Engineer Associate

Azure Data Scientist Associate

Transform your business with Microsoft AI

Design and govern

Azure Essentials assists in optimizing your cloud investments during each phase.

Responsible AI principles

Empower responsible AI practices.

[Responsible AI Toolbox](#)

[Azure Confidential Computing](#)

[Responsible AI tools and practices](#)

[Tools for Responsible AI](#)

Azure AI Content Safety

Add guardrails for GenAI and controls for user-generated content.

[Azure AI content safety](#)

[Learn how to build responsible AI](#)

[Responsible AI Impact Assessment](#)

[Azure AI Content Safety pricing](#)

Data governance, security, privacy, and compliance

Deploy scalable architectures that leverage shared services.

[Introducing modern data governance for the era of AI](#)

[Best practice for data and AI governance](#)

[Unpacking AI governance to shape digital transformation](#)
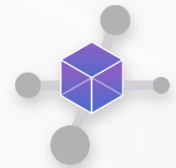
Architectural guidance

Design with confidence.

[Baseline OpenAI end-to-end chat reference architecture](#)

[Access Azure OpenAI and other language models through a gateway](#)

[Azure OpenAI chat baseline architecture in an Azure landing zone](#)

GenAIOps

Operationalize AI development with GenAIOps.

[GenAIOps Assessment](#)
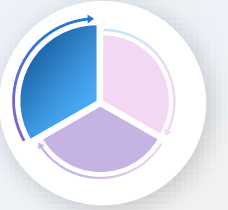
[GenAIOps with prompt flow and GitHub](#)

[Designing and developing a RAG solution](#)

[RAG with Azure Machine Learning prompt flow](#)

[Build apps with GenAI](#)

Manage and optimize

Azure Essentials assists in optimizing your cloud investments during each phase.

Monitoring and security

Establish monitoring, logging, real-time evaluation, tracing, and debugging.

Model monitoring for generative AI applications

Inference data collection from models in production

Shared responsibility AI

Management and optimization

Perform benchmarking, sizing, and cost management.

Optimizing Generative Applications on Azure Open AI

Azure OpenAI Studio

Service Benchmarking tool

Solution sizing tool

Resource utilization and efficiency

Understand and optimize costs with the cost optimization workbook

Azure carbon optimization

Optimize costs with Azure pricing

Proactive resiliency for critical workloads

Periodic assessments of architecture aligned with business policies and capability tradeoffs.

Azure Advisor

Well-Architected Review - MLOps

Groundedness tests
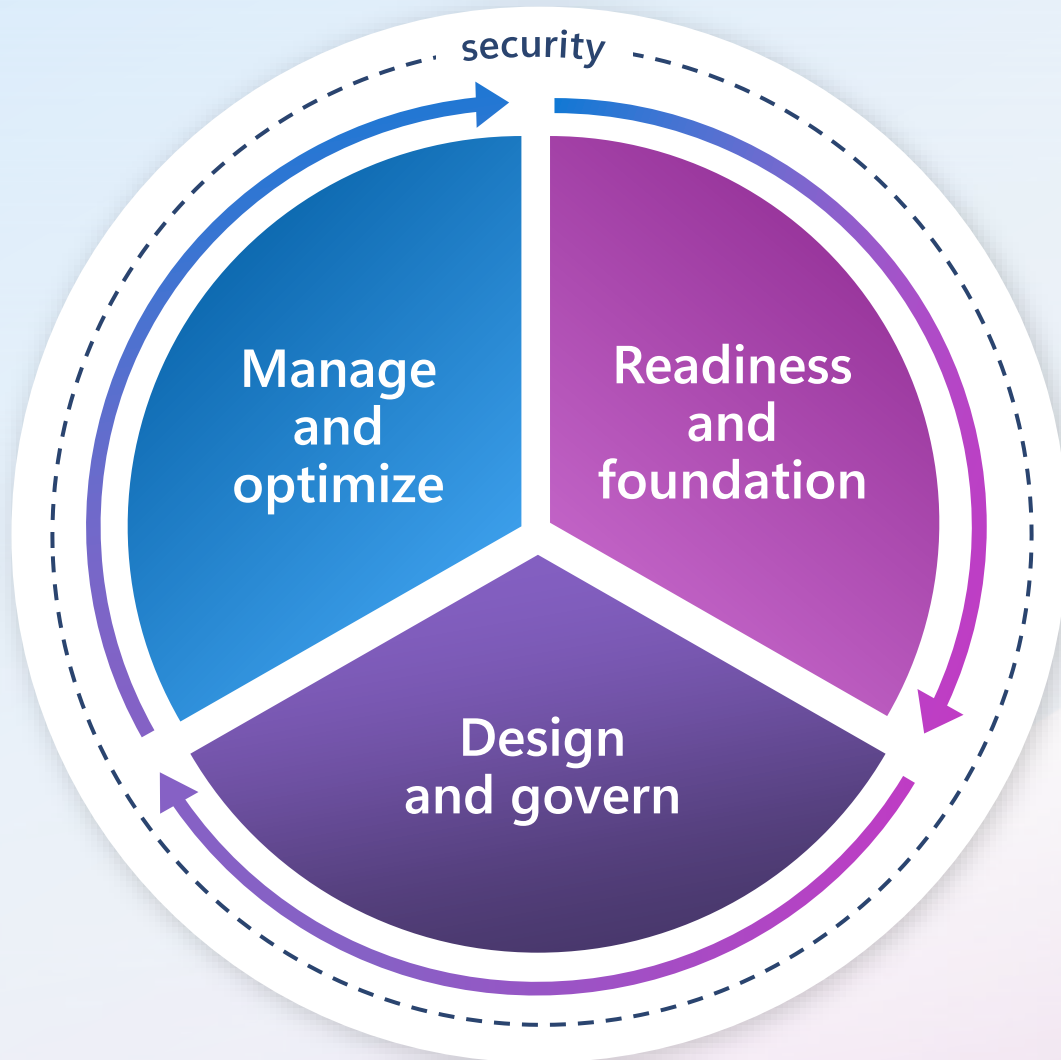
GovViz Tool

Build and modernize
AI apps

Build and modernize AI apps

Use the concepts in each phase to ensure the successful deployment and operation of AI apps.

security

- **Manage and optimize**
- **Readiness and foundation**
- **Design and govern**

- Migration strategy
- Platform landing zone
- Pricing and FinOps adoption
- Security and compliance planning
- Skilling and training

- App and data estate modernization
- Application patterns
- API management
- Data needs
- AI considerations

- Application testing
- Application health
- Database tuning
- Continued innovation and modernization
- AI apps performance optimization

Readiness and foundation

Azure Essentials assists in optimizing your cloud investments during each phase.
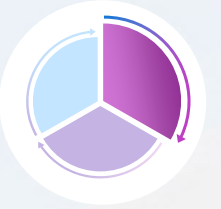
Migration strategy

Identify opportunities to drive AI impact with applications.

Azure Migrate

Azure Verified Modules

Azure Proactive Resiliency Library

Azure Monitor Baseline Alerts

Azure Site Recovery

Azure Database Migration Service

Azure Migrate demo

Platform landing zone

Use a pre-configured environment for efficient cloud management.

Prepare your landing zone for migration

Azure landing zone

Landing zone deployment options

ISV considerations

Landing zone FAQ

Pricing and FinOps adoption

Control and manage Azure and AI spend.

Cost optimization of AI workloads

Forecasting AI services costs

FinOps Framework

FinOps Review

Azure pricing overview

PTU Reservations blog

Azure Hybrid Benefit

Azure OpenAI capacity calculator

Security and compliance planning

Address security and compliance requirements early.

Azure Security Center

Azure Defender for Servers

Microsoft Copilot for Security

Confidential computing

Microsoft Purview

Extended Security Updates enabled by Azure Arc

GitHub Advanced Security for Azure DevOps

Azure Monitor, Azure Backup and Site Recovery

Skilling and training

Accelerate app modernization and foster AI innovation.

Plans on Learn: Apps platform and data solutions

Plans on Learn: Build AI apps

Plans on Learn: Modernize AI apps

Azure cost optimization workbook

Design and govern

Azure Essentials assists in optimizing your cloud investments during each phase.
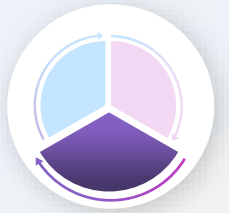
App and data estate modernization

Ready your IT estate for AI-powered app solutions.

- [Azure Verified Modules](#)
- [The Total Economic Impact™ of Azure PaaS](#)
- [Modernize any application](#)
- [Migrate ASP.NET apps to Azure](#)
- [Modernize apps with Azure apps platform and data solutions](#)

Application patterns

Leverage proven patterns to build reliable, scalable, and secure applications.

- [Cloud monitoring service level objectives](#)
- [Azure Pipelines baseline architecture](#)
- [Azure App Configuration](#)
- [Azure Developer CLI templates](#)

API management

Scale up your application solution.

- [GenAI gateway capabilities in Azure API Management](#)
- [Azure OpenAI Service REST API reference](#)
- [Azure AI Model Inference API](#)
- [Gartner® Magic Quadrant™ for Enterprise Low-Code Application Platforms](#)

Data needs

Achieve superior database performance and scalability.

- [Choose a data storage approach in Azure](#)
- [Microsoft Intelligent Data Platform](#)
- [Choose an Azure data service](#)
- [Choose an Azure service for vector search](#)

AI considerations

Infuse AI capabilities and best practices into your application workflows.

- [Responsible AI resources](#)
- [Responsible AI standard](#)
- [AI impact assessment template](#)
- [AI impact assessment guide](#)
- [Transparency notes](#)

Manage and optimize

Azure Essentials assists in optimizing your cloud investments during each phase
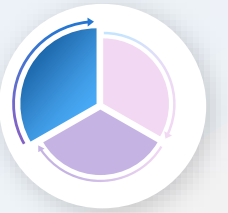
Application testing

Optimize for performance with comprehensive application testing.

[Azure Load Testing](#)

[Recommendations for performance testing](#)

[Azure Chaos Studio](#)

[Workload operations in cloud management](#)

[Microsoft Playwright Testing](#)

Application health

Create resilient applications through monitoring and remediation.

[The Total Economic Impact™ Of Microsoft Azure Resilience Guidance](#)

[Application Health extension-Azure Virtual Machines](#)

[Monitor Azure Container Instances](#)

[Application Insights-Azure Monitor](#)

Database tuning

Build faster and more efficient GenAI solutions and intelligent apps.

[Enable semantic caching](#)

[Query Performance Insight](#)

[Query Performance Insight - Azure Database for PostgreSQL](#)

Continued innovation and modernization

Leverage Azure's advanced services to optimize your server workloads.

[Resource management best practices for Azure Kubernetes Service](#)

[Build AI apps with Azure services and best practices](#)

[Multi-tier web application built for HA/DR](#)

AI apps performance optimization

Explore best practices to enhance your apps.

[Azure Code Optimizations](#)

[Azure Cache for Redis](#)

[Performance & latency with Azure OpenAI](#)

[PTU Management for GenAI](#)

[Optimizing Azure OpenAI](#)

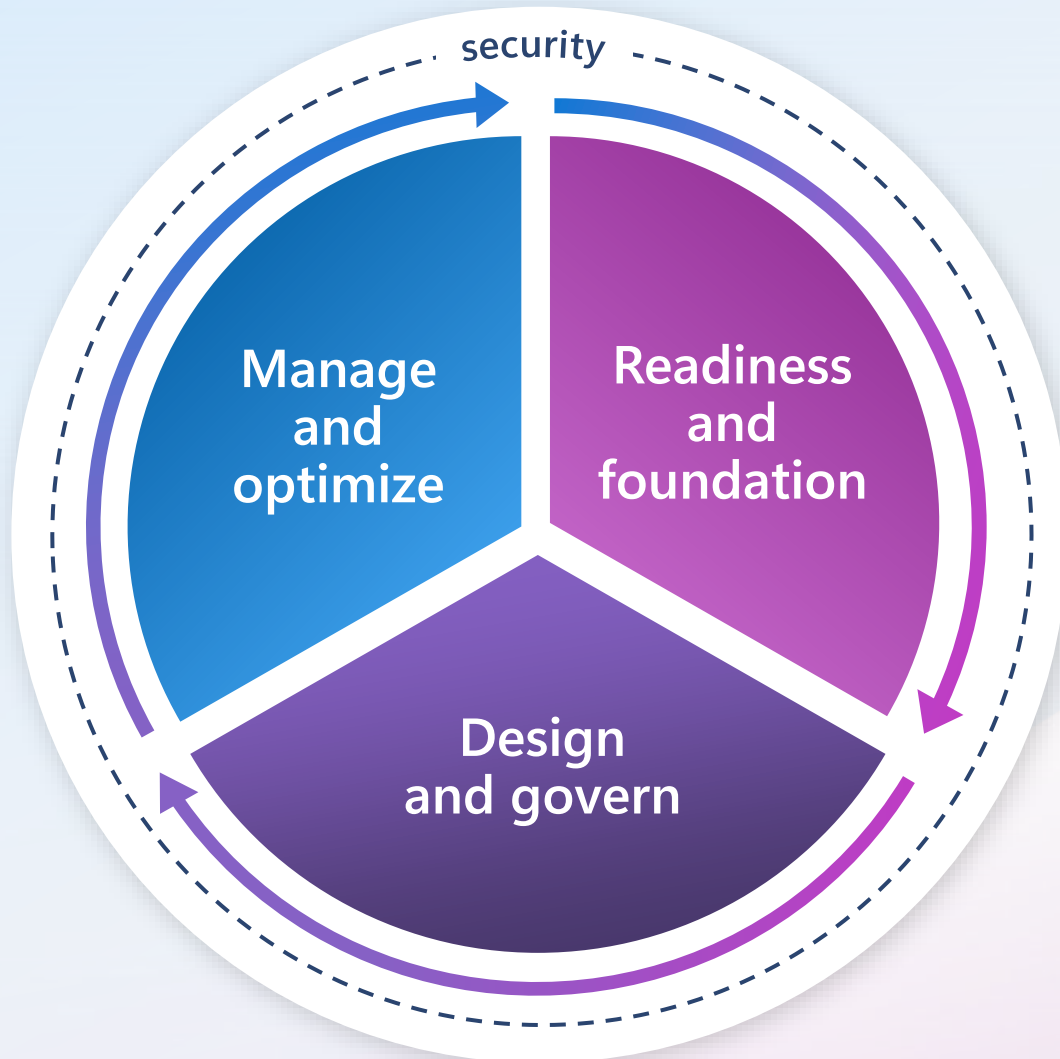[Performance tips - Azure AI Search](#)

Activate data for AI innovation

Activate data for AI innovation

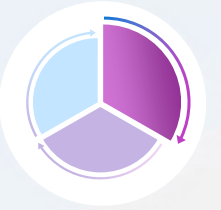Use the concepts in each phase to ensure successful cloud-scale data analytics.

- **Cloud-scale analytics strategy**
- **Secured data analytics estate**
- **Platform landing zone**
- **On-premise data consolidation**
- **Pricing and FinOps adoption**
- **Skilling and training**

- **Data analytics architectural best practices**
- **Analytics governance**
- **AI-ready data foundation**

- **Proactive resiliency for critical workloads**
- **Monitoring and security**
- **Management and optimization**
- **Continuous workload improvement**

Readiness and foundation

Azure Essentials assists in optimizing your cloud investments during each phase.

Cloud-scale analytics strategy

Have a plan in place for your data strategy.

Roles and teams for cloud-scale analytics

Integrating cloud-scale analytics into your cloud adoption strategy

Secured data analytics estate

Address security requirements early in your planning process.

Microsoft Fabric security

Microsoft Fabric end-to-end security scenario
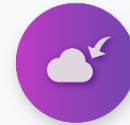
Secure cloud-scale analytics in Azure

Platform landing zone

Use a pre-configured environment for compliance and scaling.

Cloud Adoption Framework enterprise-scale landing zones

Deploying Azure landing zones

Azure landing zones for cloud-scale analytics

On-premise data consolidation

Move and consolidate on-premise data to the cloud.

OneLake in Microsoft Fabric

Integrating on-premises data into Fabric using data pipelines in Data Factory

Accessing on-premises data sources in Data Factory

Data pipeline connectors in Microsoft Fabric

Pricing and FinOps adoption

Control and manage your Azure and AI spend.

FinOps Framework

FinOps Review

Azure pricing overview

Azure Reservations

Skilling and training

Empower individuals to successfully migrate to innovate on Azure.

Evaluate an enterprise data scenario

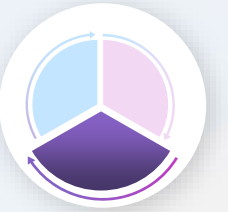Create a data product batch

Set up a data product batch

Clean up resources

End-to-end Fabric tutorials

Azure Data Fundamentals

Implement a machine learning solution with Azure Databricks

Design and govern

Azure Essentials assists in optimizing your cloud investments during each phase

Data analytics architectural best practices

Design with confidence.

[Implement medallion lakehouse architecture in Fabric](#)

[Data architectures overview](#)

Analytics governance

Establish governance for your data workloads.

[Data governance overview](#)

[Requirements for governing data](#)

[Data catalog](#)

[Data governance processes](#)

[Lineage in Microsoft Fabric](#)

[Microsoft Fabric governance](#)

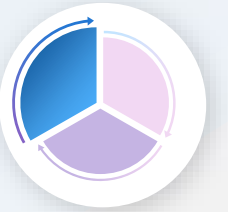[Governance and compliance in Microsoft Fabric](#)

AI-ready data foundation

Learn about AI-specific considerations.

[Azure Machine Learning as a data product for cloud-scale analytics](#)

Manage and optimize

Azure Essentials assists in optimizing your cloud investments during each phase.

Proactive resiliency for critical workloads

Periodic architecture assessments aligned with business policies and capability tradeoffs.

[Azure Advisor](#)

[Azure Well-Architected Review](#)

[Reliability in Microsoft Fabric](#)

Monitoring and security

Establish monitoring, logging, real-time evaluation, tracing, and debugging.

[OneLake disaster recovery](#)

[Azure Security Center](#)

[Azure Defender for Servers](#)

[Microsoft Copilot for Security](#)

[Confidential computing](#)

[Microsoft Purview](#)

[Extended security updates - Azure Arc](#)

[GitHub Advanced Security - Azure DevOps](#)

[Azure Monitor](#)

[Azure Backup Site Recovery](#)

Management and optimization

Perform benchmarking, sizing, and cost management.

[Resource utilization and efficiency](#)

[Cost optimization workbook](#)

[Azure carbon optimization](#)

[Optimize spend with savings plan and reserved instance](#)

Continuous workload improvement

Review and enhance your data analytics workloads.

[Databases: Azure service guidance mapped to Azure Well-Architected Framework](#)

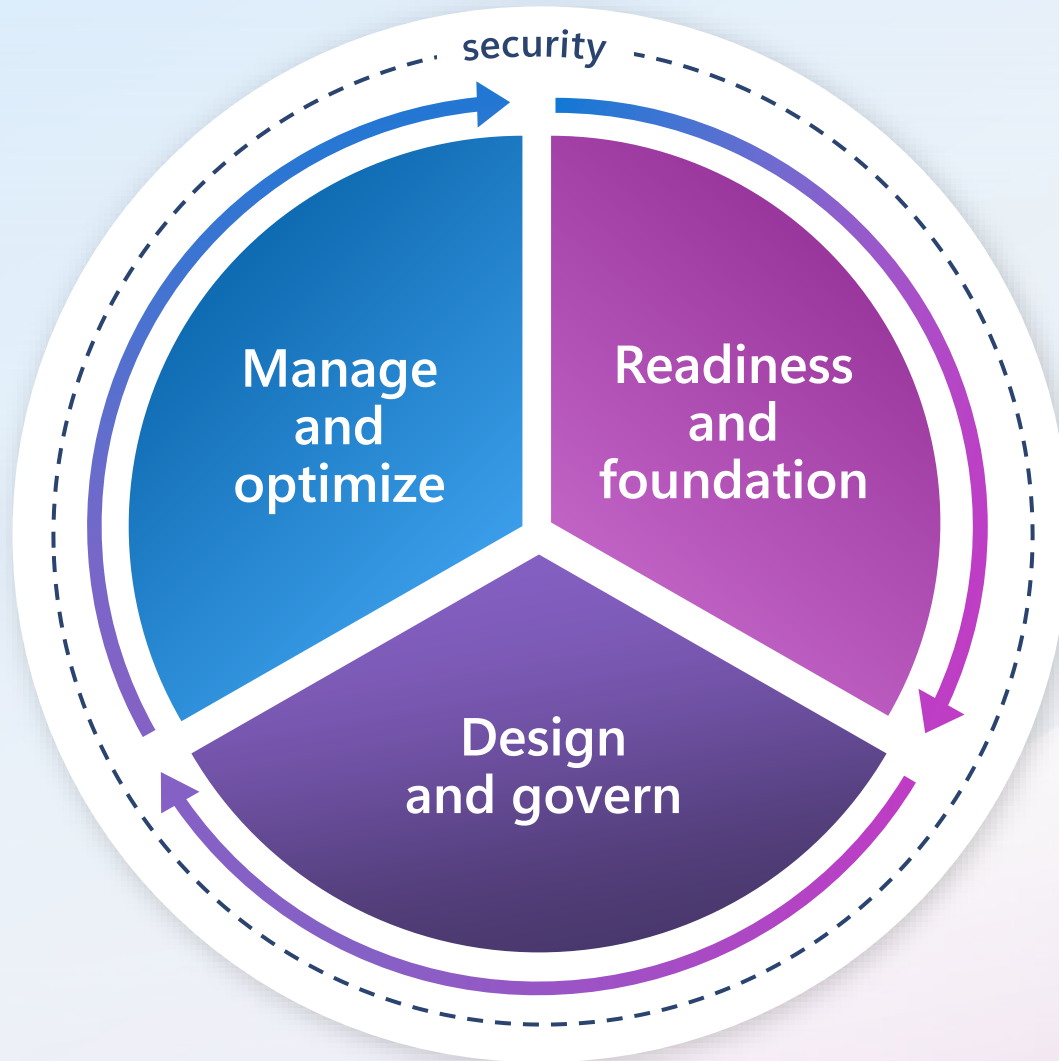[What's new in the Azure Well-Architected Framework](#)

[Azure Well-Architected Framework for data workloads](#)

Migrate
to innovate

Migrate to innovate

Use the concepts in each phase to ensure successful migration.

security

Manage and optimize

Readiness and foundation

Design and govern

- **Migration strategy**
- **Security and compliance training**
- **Platform landing zone**
- **Pricing and FinOps adoption**
- **Skilling and training**

- **Architectural best practices**
- **Cloud workload deployment**
- **Cloud deployment governance**
- **AI-ready migration**

- **Proactive resiliency for critical workloads**
- **Monitoring and security**
- **Management and optimization**
- **Continuous workload improvement**

Readiness and foundation

Azure Essentials assists in optimizing your cloud investments during each phase.
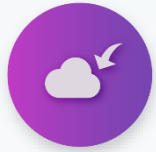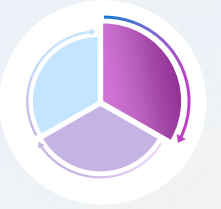
Migration strategy

Conduct a detailed inventory of IT estate and create a comprehensive migration strategy.

Migrate overview - Cloud Adoption Framework

Azure Site Recovery

Azure Database Migration Service for SQL Server migrations

Security and compliance planning

Address security and compliance requirements early in the planning process.

Security overview - Cloud Adoption Framework

Define a security strategy

Platform landing zone

Use a pre-configured environment for compliance and scaling.

Prepare your landing zone for migration

Landing zone deployment options

ISV considerations

Get landing zone help

Landing zone FAQ

Pricing and FinOps adoption

Control and manage Azure and AI spend.

FinOps Framework

FinOps Review

Azure pricing overview

Azure Hybrid Benefit cost calculator

Skilling and training

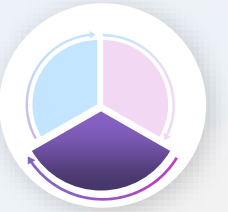Empower individuals to successfully migrate to innovate on Azure.

Azure Fundamentals

Leverage Plans on Microsoft Learn for Windows Server, SQL Server, and Linux

Virtual Training Days

Azure Credentials

Design and govern

Azure Essentials assists in optimizing your cloud investments during each phase.

Architectural best practices

Design with confidence.

[Design workload architecture before migration](#)
[Design migration to Azure](#)
[Deploy Azure SQL Database](#)
[Azure database and analytics services](#)
[Securing Azure SQL](#)
[Azure Cosmos DB](#)
[Azure Database for PostgreSQL](#)
[Azure Database for MySQL](#)
[SQL Server on Azure VMs](#)
[Run a Linux VM on Azure](#)

Cloud workload deployment

Assess, test, and deploy cloud workloads.

[Migration assessment checklist](#)
[Migration deployment checklist](#)

Cloud deployment governance

Establish governance for your cloud workloads.

[Cloud Adoption Framework governance overview](#)
[Migration release checklist](#)

AI-ready migration

Learn about AI-specific considerations for migration.

[Microsoft's Responsible AI principle](#)
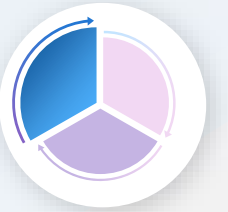[Azure AI Content Safety](#)
[Learn how to build responsible AI](#)
[Azure AI Content Safety pricing](#)
[Azure AI Content Safety videos](#)

Manage and optimize

Azure Essentials assists in optimizing your cloud investments during each phase.

Proactive resiliency for critical workloads

Perform periodic architecture assessments aligned with business policies and capability tradeoffs.

Azure Advisor

Azure Well-Architected Review

Monitoring and security

Establish monitoring, logging, real-time evaluation, tracing, and debugging.

What is Microsoft Defender for Cloud?

Azure Security Center

Azure Defender for Servers

Microsoft Copilot for Security

Confidential computing

Microsoft Purview

Extended Security Updates enabled by Azure Arc

GitHub Advanced Security

Azure Monitor

Azure Backup Site Recovery

Management and optimization

Perform benchmarking, sizing, and cost management.

Resource utilization and efficiency

Cost optimization workbook

Azure carbon optimization

Optimize costs with Azure pricing

Continuous workload improvement

Review and enhance your cloud workloads.

Databases: Azure service guidance mapped to Well-Architected Framework

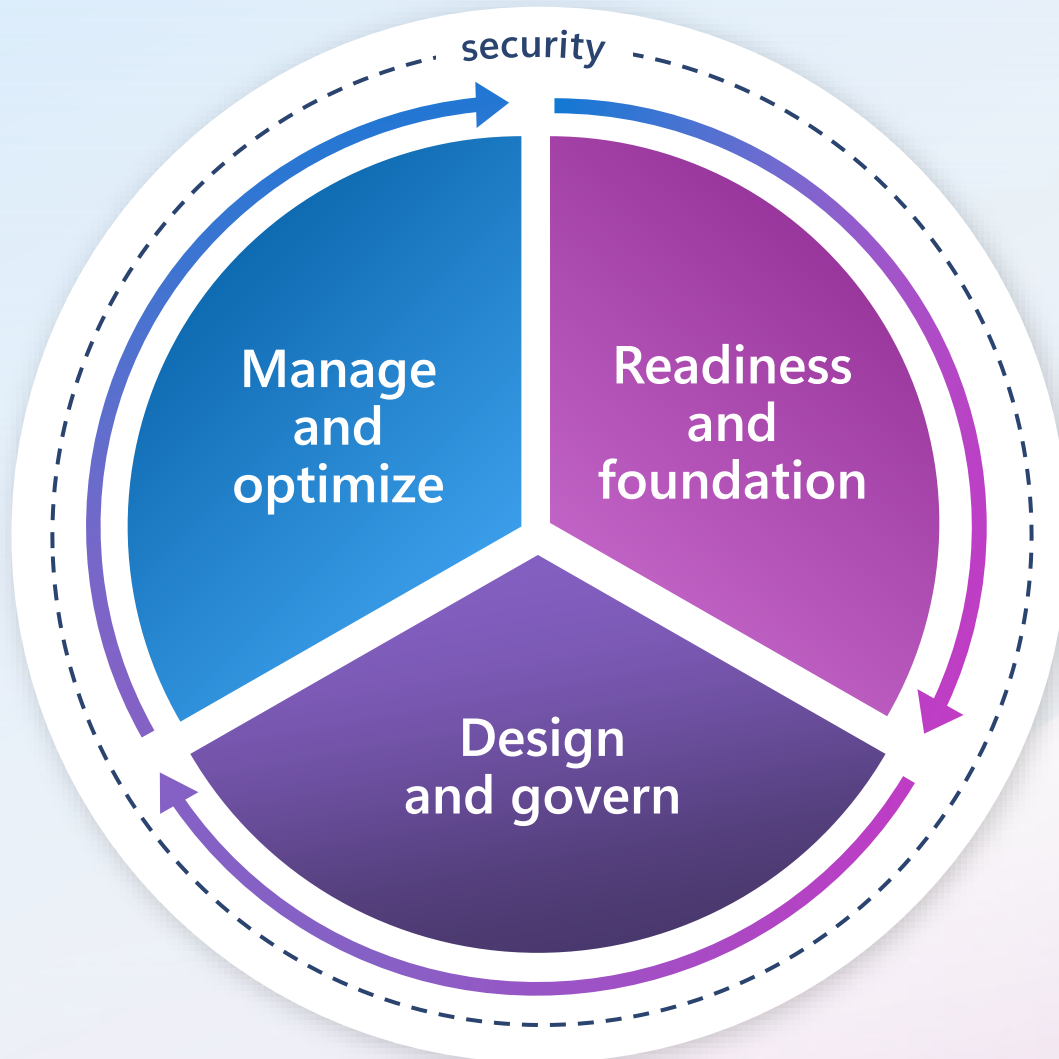What's new in the Azure Well-Architected Framework

Migrate
SAP workloads

Migrate SAP workloads

Use the concepts in each phase to ensure a successful SAP to Azure migration.

security

Manage and optimize

Readiness and foundation

Design and govern
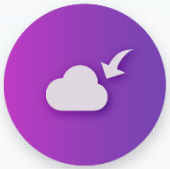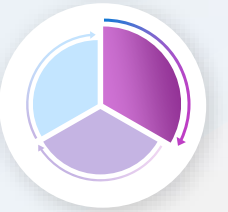
- Deployment model strategy
- Platform landing zone
- Security and compliance planning
- Pricing and FinOps adoption
- Skilling and training

- Architectural best practices
- AI-ready SAP migration
- SAP workload deployment
- SAP cloud deployment governance

- Proactive resiliency for SAP workloads
- Monitoring and security
- Management and optimization
- Continuous workload improvement

Readiness and foundation

Azure Essentials assists in optimizing your cloud investments during each phase.

Deployment model strategy

Assess SAP estate, inventory dependencies, and choose a deployment model of RISE with SAP or native SAP on Azure.

Microsoft and SAP Partnering for Customer Success

Cloud Adoption Framework for SAP

Integrating Azure with SAP RISE

Migration assessment checklist

Platform landing zone

Use Microsoft and SAP expertise to prepare migration strategy and establish an Azure landing zone.

Azure landing zones

Azure landing zone for SAP migration

Azure Center for SAP solutions

Security and compliance planning

Plan environment needs for compute, networking, security and database.

Cloud Adoption Framework security overview

Microsoft Entra ID Governance
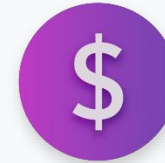
Plan to deploy the Microsoft Sentinel solution for SAP

Pricing and FinOps adoption

Control and manage Azure and AI spend.

FinOps Framework

FinOps Review

Azure pricing overview

Microsoft Azure pricing calculator

Skilling and training

Empower individuals to successfully migrate SAP on Microsoft Cloud.

Azure Fundamentals

Skilling Plan on Microsoft Learn for SAP

SAP on Azure Virtual Training Days

Azure Credentials

Design and govern

Azure Essentials assists in optimizing your cloud investments during each phase.
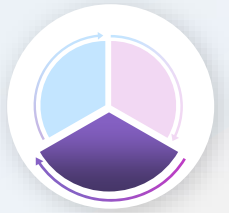
Architectural best practices

Design with confidence, assess the SAP platform and dependent workloads, and evaluate sizing.

Foundations of IaaS for SAP on Azure

Integrating Azure with SAP RISE

SAP on Azure Architecture Center

SAP reference architectures

SAP workload documentation

AI-ready SAP migration

Use the broad set of Microsoft AI services with SAP workloads to innovate and maximize business outcomes.

Microsoft's Responsible AI principle

Azure AI Content Safety

Joint capabilities from Microsoft and SAP

Integrate your SAP data into Fabric

Streamline SAP processes with Microsoft AI services

Combine SAP and other data

Connect Power Platform to SAP on Azure

Import an SAP API using the Azure portal

SAP workload deployment

Begin technical implementation of the migration aligned with chosen deployment model – Native or RISE.

Deploy SAP on Azure

Integrate Azure with SAP RISE

Explore Azure Center for SAP solutions

SAP deployment using an Oracle DB

Migration process of SAP on Azure

SAP cloud deployment governance

Implement security, compliance, and governance design criteria for enterprise-scale SAP on Azure.

Governance disciplines for SAP on Azure

Foundations of identity and governance for SAP on Azure

Cloud Adoption Framework governance overview
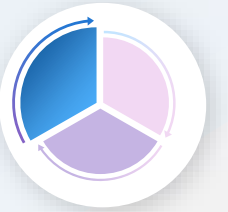
Migration release checklist

Microsoft Purview

Manage and optimize

Azure Essentials assists in optimizing your cloud investments during each phase.

Proactive resiliency for SAP workloads

Perform periodic assessments of architecture aligned with business policies and capability tradeoffs.

[Ensure stable operations and optimization](#)

[Azure Well-Architected Review - SAP assessment](#)

[Introduction to application resiliency in Azure](#)

[Reliability guidance overview](#)

[Design and architect Azure ExpressRoute for resiliency](#)

Monitoring and security

Use SAP and Microsoft Security tools help monitor and secure your entire application environment.

[Identity and security in Azure with SAP RISE](#)

[Azure Well-Architected Framework](#)

[Azure Security Center](#)

[Microsoft Purview](#)

[Microsoft Defender for Cloud](#)

[Manage access to your SAP applications - Microsoft Entra ID Governance](#)

[Plan to deploy the Microsoft Sentinel solution for SAP](#)

Management and optimization

Leverage free native tools to optimize SAP environment.

[Introduction to Azure Advisor](#)

[Resource utilization and efficiency](#)

[Cost optimization workbook](#)

[Azure carbon optimization](#)

[Optimize costs with Azure pricing](#)

Continuous workload improvement

Ensure workload reliability, security, cost optimization, performance, and operational excellence.

[Well-architected SAP workload](#)

[Databases: Azure service guidance mapped to Well-Architected Framework](#)

[What's new in the Azure Well-Architected Framework](#)

[Azure Advisor resiliency reviews](#)

[Azure for SAP workloads Specialty](#)

Accelerate software development

Accelerate software development

Use the concepts in each phase to accelerate developer productivity.

security

Manage and optimize

Readiness and foundation

Design and govern
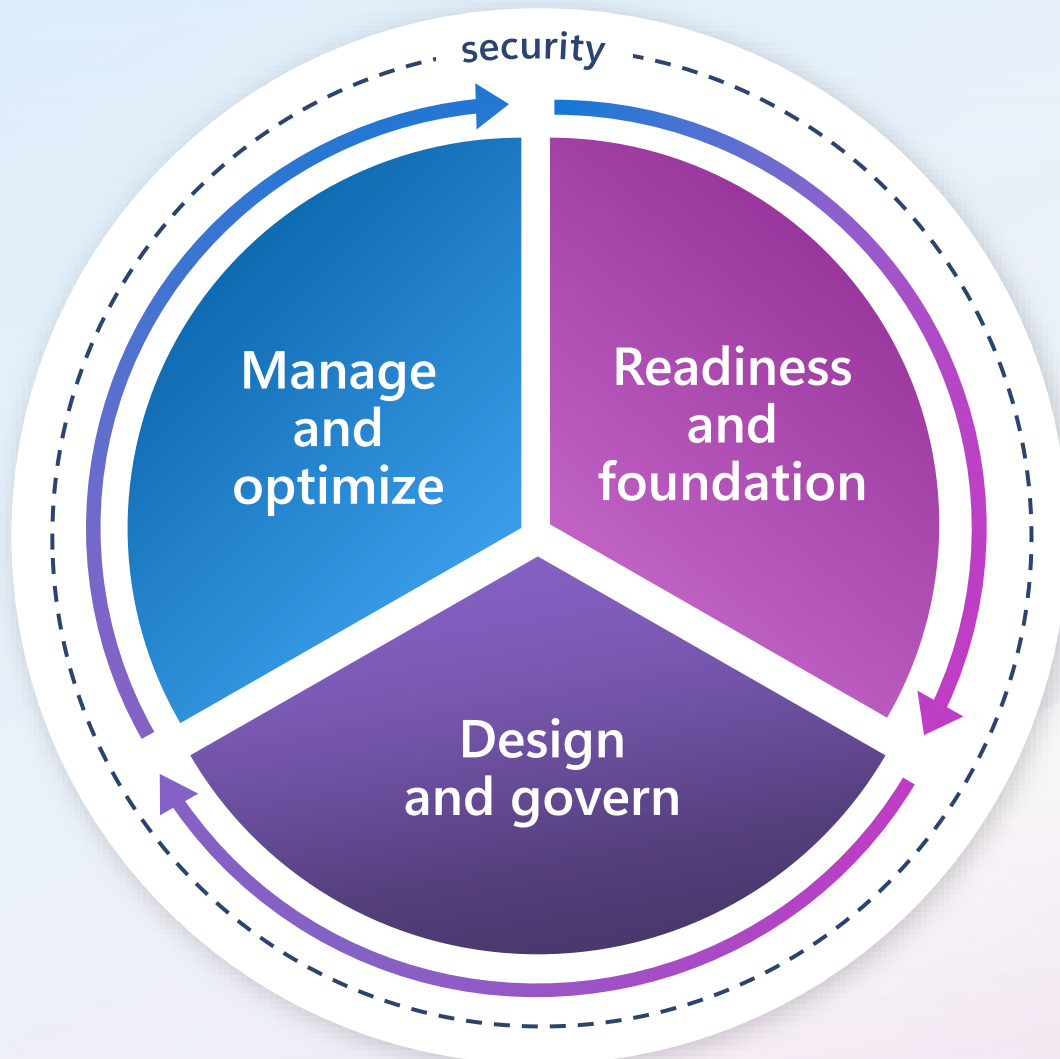
- Data sources and infrastructure
- Platform landing zone
- DevOps enablement
- Pricing and FinOps adoption
- Skilling and training

- Operational excellence best practices
- AI-ready app development
- Application landing zones

- Monitoring and security
- Management and optimization
- Emergency response strategy

Readiness and foundation

Azure Essentials assists in optimizing your cloud investments during each phase.

Data sources and infrastructure

Access and secure data sources and computing infrastructure.

[Solution architect's checklist](#)

Platform landing zone

Use a pre-configured environment for compliance and scaling.

[Deploy Azure landing zones](#)

[Bicep modules design considerations](#)

[Terraform module design considerations](#)

[Subscription vending implementation guidance](#)

DevOps enablement

Set up a modern software development lifecycle to take advantage of Azure.

[DevOps resource center](#)

[Microsoft Dev Box](#)

Pricing and FinOps adoption

Control and manage Azure and AI spend.

[FinOps Framework](#)

[FinOps Review](#)

[Azure pricing overview](#)

[Azure Hybrid Benefit cost calculator](#)

Skilling and training

Empower individuals to successfully accelerate development processes.

[Training for DevOps Engineers](#)

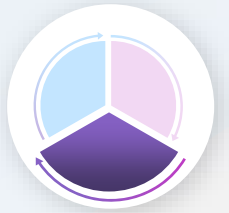[Introduction to GitHub Copilot](#)

[GitHub Copilot fundamentals](#)

[Accelerate app development using GitHub Copilot](#)

[Use GitHub Copilot with Python](#)

[Add AI-generated code using Copilot](#)

Design and govern

Azure Essentials assists in optimizing your cloud investments during each phase

Operational excellence best practices

Design with confidence.

[Cloud design patterns that support operational excellence](#)

[Operational excellence quick links](#)

[Recommendations for designing and creating a monitoring system](#)

AI-ready app development

Assess, test, and deploy cloud workloads.

[DevOps architecture design](#)

[Azure Well-Architected Review assessment](#)

[Azure Well-Architected Review](#)

[GitHub Actions for Azure](#)

[GitHub Copilot extension overview](#)

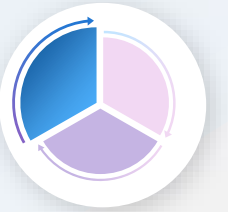[Azure and GitHub integration](#)

Application landing zones

Build environments for specific workloads but leverage shared services across the organization.

[What is infrastructure as code (IaC)?](#)

[Azure Verified Modules](#)

Manage and optimize

Azure Essentials assists in optimizing your cloud investments during each phase.

Monitoring and security

Establish monitoring, logging, real-time evaluation, tracing, and debugging.

Get compliance data - Azure Policy

Azure Governance Visualizer

Manage Azure Policies with GitHub

DevOps tooling for Well-Architected Recommendation Process

Determine causes of non-compliance - Azure Policy

Remediate non-compliant resources - Azure Policy

Management and optimization

Perform benchmarking, sizing, and cost management.

Optimize workload design using flows

Cost Optimization workbook

Use Azure Advisor score

Microsoft Cost Management

Make resources more secure with Azure Advisor

Service Retirement workbook

Workload sustainability

Sustainability assessment

Reliability workbook

Optimize costs with Azure pricing

Emergency response strategy

Build response strategies that detect and mitigate emergencies

Designing an emergency response strategy

Creating an observability framework

Designing a monitoring and alerting strategy

Recommendations for self-healing and self-preservation

Azure proactive resiliency

Azure proactive resiliency

1 **Identify**

Document your critical workloads on Azure.

2 **Assess**

Conduct an assessment to understand opportunities for enhancement either through Well-Architected Reliability Assessment or Enterprise Security Assessment.

3 **Remediate**

Based on your assessment results and your highest priorities, determine which workloads are most crucial for remediation.

Infrastructure

COMING SOON
Applications

COMING SOON
Data

COMING SOON
Security

Infrastructure resiliency

1

Identify and document

- Identify a business-critical workload that you would like to assess for its resiliency.

- Understand the [Business critically in cloud management](#).

2

Assess and recommend

- The Well-Architected Reliability Assessment offers technical analysis of all Azure services in critical workloads, including shared services. It covers high availability, backup and recovery, disaster recovery, monitoring, alerting, maintenance control, outage history, performance, and security. The results are shared via Azure Advisor and support needs are documented for regular follow-up.

- Define the workload to be assessed.

- Use the Azure Proactive Resilience Library (APRL) to discover deficiencies.

- Load recommendations into [Azure Advisor](#) for monitoring status.

- Learn about the [overview and usage of APRL Scripts](#) in the APRL v2.

3

Plan for remediation and execute

- Communicate findings and discuss potential remediation with all relevant stakeholders.

- Focus on highest risk areas, select services aligned to the remediation recommendations.

- Execute recommendations to reduce gaps.

- Explore how to use the [Reports Generator PowerShell script](#).

Key gaps to address

Single availability-zone deployments:

Multi-zonal deployment of services can prevent customer impact during outages, ExpressRoute Gateways should be deployed across multiple availability zones.

Accelerate adoption with expert help and resources

Microsoft

Azure Innovate

Infuse AI into solutions, advance analytics capabilities, and help to build custom cloud-native applications.

Azure Migrate and Modernize

Securely and efficiently move existing workloads to Azure, while delivering enhanced application and data experiences.

New · **Azure Essentials**

Elevate reliability, security, and ongoing performance of cloud and AI investments with extensive guidance, resources, and tooling.

Ready to begin an innovation or migration project with Azure?
Get started now with **Azure Innovate or Azure Migrate and Modernize**.