

	301111	are Services Pvt. Ltd.
Course Name	AZ-400: Designing and Implementing Microsoft DevOps Solution	ons
About the Course	This course teaches students how to design and implement DevOps processes and practice. This course will teach implementing DevOps practices like CI/CD, infrastructure as code, and automation so that you can manage and implement DevOps services and tools effectively	
Key Skills You Will Learn	Plan and practice DevOps using Azure Boards, Manage builds and packages using Azure Artifacts and containers, Design a license management strategy, Design a strategy for integrating on-premises and cloud resources, Build a secure and quality DevOps setup, Understand site reliability engineering	
Course Pre-Requisite	You should be familiar with Azure administration and development, and have passed either the AZ-104 Azure Administrator Associate or AZ-204 Azure Developer Associate exam	
Target Audience	IT professionals: Aspiring Azure DevOps Engineer Experts, or those preparing for the AZ-400 exam, System administrators, developers, and IT professionals: Wanting to learn how to build DevOps solutions on Microsoft Azure, Professionals with a background in software engineering: With a basic understanding of DevOps, Professionals interested in roles like DevOps engineers, release managers, or automation architect	
Job prospects with this role	DevOps Engineer, Software Engineer, Senior DevOps Engineer, Site Reliability Engineer, Software Release Manager.	
Course Duration	~ 32 Hrs	
Course Customisation	Not applicable	
Certification	READYBELL AZ-400: Designing and Implementing Microsoft DevOps Solutions Certi	ficate
Mode of Training	Instructor-led 100% Online or 100% Classroom (Salt Lake, Kolkata - India) or hybrid mode (Online + Classroom) as suitable for the learner	
Course Fees	Please contact us	
Refund Policy	Get a 3-hours free trial during which you can cancel at no penalty. After that, we don't give refunds	
Job Assistance	Will assist candidate in securing a suitable job	
Contact	READYBELL SOFTWARE SERVICES PVT. LIMITED AH 12, SALT LAKE SECTOR 2, KOLKATA (INDIA) - 700 091 E-MAIL: contact@readybellsoftware.com PH: +91 - 9147708045/9674552097, +91 - 33-79642872	Ready Bell Software Services Pvt. Ltd.

Module 4: Collaborate with pull requests in Azure Repos
Introduction
Collaborate with pull requests
Exercise Azure Repos collaborating with pull requests
Module 5: Explore Git hooks
Introduction
Introduction to Git hooks
Implement Git hooks
Module 6: Plan foster inner source
Introduction
Explore foster inner source
Implement the fork workflow
Describe inner source with forks
Module 7: Manage and configure repositories
Introduction
Work with large repositories
Explore monorepo versus multiple repos
Implement a change log
Implement Scalar and cross repo when cross repo sharing
Recover specific data by using Git commands
Purge repository data
Manage releases with GitHub Repos
Automate release notes with GitHub
Create API documentation
Implement automation of Git history documentation
Configure source control repository permissions using GitHub
Configure GitHub tags to organize repositories
Module 8: Identify technical debt
Introduction
Examine code quality
Examine complexity and quality metrics
Introduction to technical debt
Measure and manage technical debt
Introduction to GitHub Advanced Security
Integrate other code quality tools
Plan effective code reviews
AZ-400: Implement CI with Azure Pipelines and GitHub Actions
Module 9: Explore Azure Pipelines
Introduction
Explore the concept of pipelines in DevOps
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Describe Azure Pipelines Understand Azure Pipelines key terms Module 10: Manage Azure Pipeline agents and pools Introduction Choose between Microsoft-hosted versus self-hosted agents Explore job types Introduction to agent pools Explore predefined agent pool Understand typical situations for agent pools Communicate with Azure Pipelines Communicate to deploy to target servers Examine other considerations Describe security of agent pools Configure agent pools and understand pipeline styles Module 11: Describe pipelines and concurrency Introduction Understand parallel jobs Estimate parallel jobs Describe Azure Pipelines and open-source projects Explore Azure Pipelines and Visual Designer Describe Azure Pipelines and YAML Enable Continuous Integration with Azure Pipelines Module 12: Design and implement a pipeline strategy Introduction Configure agent demands Explore multi-configuration and multi-agent Integrate GitHub repos and Azure Pipelines Design and implement a comprehensive testing strategy Implement code coverage and show in the pipeline Implement multi-job builds Explore source control types supported by Azure Pipelines Module 13: Integrate with Azure Pipelines Introduction Describe the anatomy of a pipeline Understand the pipeline structure Detail templates Explore YAML resources Use multiple repositories in your pipeline		
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Introduction What are actions? Explore Actions flow Understand Workflows Describe standard workflow syntax elements Explore Events Explore Jobs Explore Jobs Explore Runners Examine release and test an action Module 15: Learn continuous integration with GitHub Actions Introduction Describe continuous integration with actions Examine environment variables Share artifacts between jobs Examine Workflow badges Describe best practices for creating actions Mark releases with Git tags Create encrypted secrets Use secrets in a workflow Implement GitHub Actions for CI/CD Module 16: Design a container build strategy Introduction Examine structure of containers Work with Docker containers Understand Dockerfile core concepts Examine multi-stage dockerfiles Explore Azure containers to Azure App Service web apps AZ-400: Design and implement a release strategy Module 17: Create a release pipeline Introduction Describe Azure DevOps release pipeline capabilities Explore release pipelines Explore artifact sources Choose the appropriate artifact source Examine considerations for deployment to stages Explore build and release tasks	T
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Examine considerations for deployment to stages Explore build and release tasks	
Explore build and release tasks	
	Explore custom build and release tasks

Explore release jobs
Understand database deployment task
Configure Pipelines as Code with YAML
Module 18: Explore release recommendations
Introduction
Understand the delivery cadence and three types of triggers
Explore release approvals
Explore release gates
Use release gates to protect quality
Explore GitOps release strategy and recommendations
Control Deployments using Release Gates
Module 19: Provision and test environments
Introduction
Provision and configure target environments
Exercise - set up service connections
Configure automated integration and functional test automation
Understand Shift-left
Set up and run availability tests
Explore Azure Load Testing
Set up and run functional tests
Module 20: Manage and modularize tasks and templates
Introduction
Examine task groups
Explore variables in release pipelines
Exercise - create and manage variable groups
Module 21: Automate inspection of health
Introduction
Automate inspection of health
Explore events and notifications
Explore service hooks
Configure Azure DevOps notifications
Configure GitHub notifications
Explore how to measure quality of your release process
Examine release notes and documentation
Examine considerations for choosing release management tools
Explore common release management tools
AZ-400: Implement a secure continuous deployment using Azure Pipelines
Module 22: Introduction to deployment patterns
Introduction

Explore microservices architecture
Examine classical deployment patterns
Understand modern deployment patterns
Module 23: Implement blue-green deployment and feature toggles
Introduction
What is blue-green deployment?
Explore deployment slots
Introduction to feature toggles
Describe feature toggle maintenance
Module 24: Implement canary releases and dark launching
Introduction
Explore canary releases
Examine traffic manager
Understand dark launching
Module 25: Implement A/B testing and progressive exposure deployment
Introduction
What is A/B testing?
Explore CI-CD with deployment rings
Module 26: Integrate with identity management systems
Introduction
Integrate GitHub with single sign-on (SSO)
Design and implement permissions and roles in GitHub
Design and implement permissions and security groups in Azure DevOps
Explore workload identities
Implement managed identities
Module 27: Manage application configuration data
Introduction
Rethink application configuration data
Explore separation of concerns
Understand external configuration store patterns
Implement Azure DevOps secure files
Introduction to Azure App Configuration
Examine Key-value pairs
Examine App configuration feature management
Integrate Azure Key Vault with Azure Pipelines
Manage secrets, tokens and certificates
Examine DevOps inner and outer loop
Integrate Azure Key Vault with Azure DevOps
Enable Dynamic Configuration and Feature Flags

AZ-400: Manage infrastructure as code using Azure and DSC
Module 28: Explore infrastructure as code and configuration management
Introduction
Explore environment deployment
Examine environment configuration
Understand imperative versus declarative configuration
Understand idempotent configuration
Module 29: Create Azure resources using Azure Resource Manager templates
Introduction
Why use Azure Resource Manager templates?
Explore template components
Manage dependencies
Modularize templates
Manage secrets in templates
Module 30: Create Azure resources by using Azure CLI
Introduction
What is Azure CLI?
Work with Azure CLI
Module 31: Explore Azure Automation with DevOps
Introduction
Create automation accounts
What is a runbook?
Understand automation shared resources
Explore runbook gallery
Examine webhooks
Explore source control integration
Explore PowerShell workflows
Create a workflow
Explore hybrid management
Examine checkpoint and parallel processing
Module 32: Implement Desired State Configuration (DSC)
Introduction
Understand configuration drift
Explore Desired State Configuration (DSC)
Explore Azure Automation State configuration (DSC)
Examine DSC configuration file
Implement DSC and Linux Automation on Azure
Module 33: Implement Bicep
Introduction
What is Bicep?

Install Bicep	
Exercise - Create Bicep templates	
Understand Bicep file structure and syntax	
Exercise - Deploy a Bicep file from Azure Pipelines	
Exercise - Deploy a Bicep file from GitHub workflows	
Deployments using Azure Bicep templates	
AZ-400: Design and implement a dependency management strategy	
Module 34: Explore package dependencies	
Introduction	
What is dependency management?	
Describe elements of a dependency management strategy	
Identify dependencies	
Understand source and package componentization	
Decompose your system	
Scan your codebase for dependencies	
Module 35: Understand package management	
Introduction	
Explore packages	
Understand package feeds	
Explore package feed managers	
Explore common public package sources	
Explore self-hosted and SaaS based package sources	
Consume packages	
Introduction to Azure Artifacts	
Publish packages	
Package management with Azure Artifacts	
Module 36: Migrate consolidate and secure artifacts	
Introduction	
Identify existing artifact repositories	
Migrate and integrating artifact repositories	
Secure access to package feeds	
Examine roles	
Examine permissions	
Examine authentication	
Module 37: Implement a versioning strategy	
Introduction	
Understand versioning of artifacts	
Explore semantic versioning	
Examine release views	
Promote packages	

Explore best practices for versioning
Module 38: Introduction to GitHub Packages
Introduction
Publish packages
Install a package
Delete and restore a package
Explore package access control and visibility
AZ-400: Implement continuous feedback
Module 39: Implement tools to track usage and flow
Introduction
Understand the inner loop
Introduction to continuous monitoring
Explore Azure Monitor and Log Analytics
Examine Kusto Query Language (KQL)
Explore Application Insights
Implement Application Insights
Design and implement metrics and queries
Monitor application performance with Application Insights
Module 40: Develop monitor and status dashboards
Introduction
Configure monitoring in GitHub
Explore Azure Dashboards
Explore Azure Monitor workbooks
Explore Power BI
Build your own custom application
Monitor pipeline health, including failure rate, duration, and flaky tests
Optimize a pipeline for cost, time, performance, and reliability
Optimize pipeline concurrency for performance and cost
Module 41: Share knowledge within teams
Introduction
Share acquired knowledge within development teams
Introduction to Azure DevOps project wikis
Integrate GitHub and Azure DevOps with Microsoft Teams
Share team knowledge using Azure Project Wiki
Module 42: Design processes to automate application analytics
Introduction
Explore rapid responses and augmented search
Integrate telemetry
Examine monitoring tools and technologies
Explore IT Service Management Connector

Madula 42: Managa planta blamalaga retrappactives and a just culture	
Module 43: Manage alerts, blameless retrospectives and a just culture	
Introduction	
Examine when to get a notification	
Explore how to fix it	
Explore smart detection notifications	
Improve performance	
Understand server response time degradation	
Reduce meaningless and non-actionable alerts	
Examine blameless retrospective	
Develop a just culture	
AZ-400: Implement security and validate code bases for compliance	
Module 44: Introduction to Secure DevOps	
Introduction	
Describe SQL injection attack	
Understand DevSecOps	
Explore Secure DevOps Pipeline	
Explore key validation points	
Explore continuous security validation	
Understand threat modeling	
Explore CodeQL in GitHub	
Module 45: Implement open-source software	
Introduction	
Explore how software is built	
What is open-source software?	
Explore corporate concerns with open-source software components	
Introduction to open-source licenses	
Explore common open-source licenses	
Examine license implications and ratings	
Module 46: Software Composition Analysis	
Introduction	
Inspect and validate code bases for compliance	
Explore software composition analysis (SCA)	
Implement GitHub Dependabot alerts and security updates	
Integrate software composition analysis checks into pipelines	
Examine tools for assess package security and license rate	
Automate container scanning, including container images	
Interpret alerts from scanner tools	
Module 47: Security Monitoring and Governance	
Introduction	
Implement pipeline security	
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Explore Microsoft Defender for Cloud	
Examine Microsoft Defender for Cloud usage scenarios	
Explore Azure Policy	
Understand policies	
Explore initiatives	
Explore resource locks	
Understand Microsoft Defender for Identity	
Integrate GitHub Advanced Security with Microsoft Defender for Cloud	
Configure GitHub Advanced Security for GitHub and Azure DevOps	
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