AGILE SERBIA by PUZZLE Software

COURSES PORTFOLIO
2023

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Scrum Alliance

2023 CONTENT

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Certification

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"WHO ARE WE?

Agile Serbia was founded as an educational center by Puzzle Software company with the main focus on Agile Software/Product Development.

Agility means having flexibility with purpose and allows organizations to make important decisions and carry out their work on the most efficient way. Agile businesses work faster, more flexible and deliver greater value for money – satisfied customers, motivating employees and increasing profit. That's why we believe in power of Agile and support organizations and business to reach their full agility.

Agile Serbia is fully committed to helping businesses be Agile – to be adaptable and flexible for changes and market challenges. We can offer Certified Agile Courses, same as Agile trainings, which can be both public, online or on-site. All Certified Courses are in partnership with Scrum Alliance. On-Site Courses and Training are customized, with focus on company's needs. Beside this, we provide significant support with Continues education process which include Agile Coaching and Mentoring Program, for all those interested to get more in-depth in Agile Transformation.

Furthermore, we organize various Agile Gatherings – free workshops and meet-ups. Our biggest regional Agile gathering is Agile Serbia Conference, brand famous in country and abroad.

2021, for the first time, we have organized Regional Scrum Gathering 2021 (first time in this part of the Europe). And this continues...

❞ CERTIFIED SCRUM MASTER

Scrum Master role is often pivotal within the successful use of Scrum. Primarily, Scrum Master observes and provides feedback to the Development Team and PO, helps the Development Team jells, visualizes information in the system. Scrum Master is an organizational change agent, who supports the Development Team's self-management, and much more.

By the end of the course you will:

- Learn what is Agile and when should it be used and which approach is appropriate in particular situation;
- Learn how to use feedback from the development team, to anticipate the opportunities, risks and consequences of planned work;
- Learn which techniques to use to "lure" valuable information and learn the needs of stakeholders;
- Be introduced with Agile estimation and planning and how to apply with particular tools and techniques;
- Have the skills to help your team jell and know how the Scrum Master role changes as the team matures;
- Deeply feel the power of working as an uninterrupted cross-functional Scrum team;
- Have an internationally recognized certification for Scrum Master role

▶ **SCRUM MASTER ROLE**
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▶ **WHAT BAD SCRUM MASTERS SAY**
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A-CSM CERTIFIED — Scrum Alliance

ADVANCED CERTIFIED SCRUM MASTER

A-CSM is the next step for certified Scrum Masters. This training prepares current Scrum Masters for their leadership role and how to facilitate Agile team, program, and increase company success with future Agile implementation. Advanced Certified Scrum Master ® (A-CSM) is an online, guided mentoring and coaching program for Scrum Masters and Agile Coaches looking to further develop their knowledge and skills.

By the end of the course you will:

- Improve your ability to come up with new, original, unique solutions to problems or ideas;
- Learn how to use the Agile Coaching Competency Framework and the skills required to coach at the enterprise level;
- Use The Integral Agile framework. We will help you widen your lens and increase your awareness of the holistic approach to agile adoption;
- Understand approaches to coaching and mentoring those in leadership roles;
- Develop better awareness of scaling and descaling patterns;
- Be step closer in your path to become certified coach/trainer in Scrum;
- Have an internationally recognized certification for Advanced Scrum Master

Requirements:
Have an active Certified Scrum Master (CSM) certificate

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Scrum Alliance
CSPO
CERTIFIED

" CERTIFIED PRODUCT OWNER

The Product Owner is responsible for maximizing the value of the product and work on the development team. The Product Owner is the person responsible for managing the Product Backlog. Therefore, Product Ownership is much more than User Stories and prioritizing the work. It's about leading the product to create happy customers and find business success.

By the end of the course you will:

- Learn why to use Agile and when is Scrum the right approach;
- Learn when should we use some other approach and can we combine different approaches;
- Discover what is expected to do in the Product Owner role and how to interact with the Development Team and the Scrum Master, or with the stakeholders;
- Know how to plan for future, what kind of commitments are safe to make and how do those commitments affect the work we do;
- Deeply feel the power of working as an uninterrupted cross-functional Scrum team;
- What techniques can you use to elicit needs and value information from your stakeholders;
- Have an internationally recognized certification for Product Owner role

▶ **WHAT BAD PRODUCT OWNER SAY**
watch now

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ADVANCED CERTIFIED PRODUCT OWNER

A-CSPO is the next step for certified Scrum Product Owners. In this training, you'll be focused on exploring ways to work with your stakeholder and product, applying that knowledge to release successful product increments to your stakeholders. This online program is iterative, we deliver it in small slices using your real-life challenges as the focus of the learning.

By the end of the course you will:
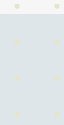
- Improve your ability to come up with new, original, unique solutions to problems or ideas;
- Explore ways to identify your Stakeholders;
- Understand Product Strategy, so that you can evolve it over time to meet customer expectations;
- Understand outcome versus output, so that we can focus on building the least output for the maximum outcome;
- Be step closer in your path to become certified coach/trainer in Scrum; Have an internationally recognized certification for Advanced Product Owner

Requirements:

Have an active Certified Scrum Product Owner (CSPO) certificate

CERTIFIED AGILE LEADERSHIP

"Agile" is promising resilience, effectiveness and speed for your business. That requires distributed authority, a learning culture, engagement on all levels. How do we achieve all that? Just tell everyone how to work differently? The current culture of your organization is the result and outcome of your leadership. That new, "agile" organization you are looking for… what kind of leadership is going to be creating it?

By the end of the course you will:

- Learn who leads in an agile organization – and how?
- Discover what does leadership mean for you and what kind of leadership will help you achieve what you want;
- Learn how to build relations successfully and how to improve your leadership skills;
- Understand how to reflect on your leadership;
- Discover how to overcome the usual business traps which result with limiting success, and establish your path to high performance;
- Learn how to use your Emotions to increase energy and impact; Improve listening skills;
- Have an internationally recognized certification for Agile Leadership role

AGILE LEADERSHIP
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MANAGEMENT 3.0

Is it possible to have a management model that goes beyond just theory and actually helps you manage the system and not the people?

This training enables you to make a valid analysis of the system and to come up with the right solutions for better and more effective leadership across organizations. It will help you learn how to analyze the system so you can transform your organization into a happier work environment with more motivated employees and empowered teams. Management 3.0 is about actionable leadership. Everything we do includes proactive leadership games and exercises to apply with your team immediately.

Learning objectives and some of the most important topics are:

- Boost productivity
- Nurture innovation
- Motivate any team
- Change the culture
- Become more Agile
- Increase happiness at work

Manage the system not the people

MANAGEMENT 3.0 PRACTICES
watch now

AGILITY IN HR

Become a better HR partner for those working in your company and provide greater support in the agile culture and mindset.

The program is hands-on, practical, and full of tools and methods to use in your own work.

In this Agile HR workshop business partners, leaders, generalists, trainers, recruiters and others who work in or closely with human resources, will learn about the Agile mindset, organizational design, roles, career paths, performance, goals & motivation, promotions, talent acquisition and retention as well as learning and development.

Learning objectives and some of the most important topics are:

- Learn the importance of business agility transformation in the "new normal";
- Understand why organizations are 'going Agile' and the implications for HR;
- What is agile and how to adopt it in the robust HR processes?
- Understanding complexity and redesigning processes in the organization;
- Learn to manage risk and prioritize your HR portfolio of work;
- How to implement Scrum and Kanban in the daily HR operations?
- Co-create a great employee experience using Agile HR techniques;
- How to improve talent acquisition, engagement, performance with Agile?
- Boost your own productivity and effectiveness with Agile HR tools;
- Creating "safe to fail" environment with psychological safety;
- Gain practical tools and evidence-based methods to start applying Agile HR;
- Lead successful projects and design HR services that your people and leaders need;
- How to create executive buy-in and an Agile mindset in the organization?
- Be a trusted business partner able to consult on Agile organizational transformation;
- Coach leaders and teams to build Agile networks of collaboration.

AGILITY IN HR: 8 QUESTIONS VIDEO
watch now

AGILITY IN MARKETING

The Agility in Marketing certification is an industry-recognized credential made by marketers, for marketers. It verifies an ability to articulate and implement agile marketing principles and deliver more responsive, customer-centric business outcomes. This knowledge-based certification is intended for marketing professionals, marketing leaders, transformation leads, Agile Coaches and Scrum Masters looking to help marketing teams/organizations adopt an agile way of working.

After the training you will have the tools to be able to:

- Develop adaptive strategy for your products/services
- Set goals with OKRs
- Generate a minimum viable product
- Improve the execution of projects and products using agile methods and frameworks (Scrum, Kanban,…)
- Align your company's people and teams with goals
- Manage leadership by applying management tools 3.0
- Establishing prioritization techniques.

AGILITY IN MARKETING
watch now

AGILITY IN MARKETING
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AGILE COACHING MASTER CLASS

This certification focuses primarily on the mindset, roles, and responsibilities of an Agile Coach. It introduces participants to foundational team coaching skills and team development concepts for starting and growing teams while focusing on teams and organizations as human systems. A key part of this certification focuses on developing an understanding of the professional coaching skill set and the value of honing these skills to serve individuals on an agile team.

ICP-ACC is for Agile and aspiring Coaches, Scrum Masters, Agile Project Managers, Product Owners, Business Analysts, HR people, team leaders, middle managers, business owners and anyone with the desire to explore the power of coaching.

During the this workshop you will:

- Understand what is included and what is not within the competence of Agile Coach;
- Better understand people, their needs, fears and the nature of resistance to change;
- Understand how coaching differs from mentoring and consulting
- Understand the difference between different coaching approaches and when to choose which one;
- Learn the basics of coaching and its key tools;
- Use coaching tools to find new uses for common Agile practices;
- Find your personal coaching style
- Learn to better understand the problems and needs of the business;
- Discover potential pitfalls of the transformation process and learn how to bypass them;
- Learn how to launch and lead Agile transformations in the company;
- Learn to plan and conduct large events at the company level.

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WORK

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TEAM AGILE EDUCATION

- You are planning or have already started using some Agile frameworks in your business?
- There is a tendency to be more Agile in order to create environment where you can adopt changes and make transformation successfully?
- There are individuals in your team who have already had experience with Agile, but
- still not everyone is on the same page regrading what Agile actually is or how some frameworks should be used?

On Site training provides organizations with a step by step guide to a better way to achieve goals, to support their Agile teams in improving organization.

This kind of Agile education is intended for all companies, teams and individuals that strive to improve their efficiency and deliver products with good quality that better meet the needs of customers.

To be Agile as an organization, you need to learn continuously and to improve Agile approach over time to achieve all your business goals Steady and continuous development is key for Agile success, immersing in a skills and competences or gaining knowledge, new perspectives for further development.

Agile Training serves to expand your knowledge in the field of Agile Development There are multiply opportunities for continuous Agile education covering various Agile topics and techniques Training are designed to foster the skills needed to succeed with Scrum and other Agile frameworks and approaches.

Trainings are tailor-made, interactive with practical workshops for up to 20 people from your team!

INTRO TO AGILE APPROACH

This training gives the answers on what Agile approach is about, what it means to be Agile, what Agile values, principles and the mindset are. Furthermore, it explains the differences between an Agile approach and Traditional (Waterfall) model, and the most common Agile frameworks and techniques (Scrum, User Stories).

You will find out when to use any of them and why. Final gain is understanding of the collaboration and communication needed between customer and developers for Agile to succeed. It is the best starting point for you to acquire skills and tools that enable you to build Agile techniques.

It helps you successfully implement Agile approach into your organization, product development, team's collaboration. How an Agile process is introduced into an organization will significantly impact the ultimate success of the process change. That's why training cover all the crucial segments you need to start successfully with Agile transformation.

7 BENEFITS OF USING AGILE
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WHAT IS AGILE
watch now

HOW LONG DOES IT TAKE TO BECOME AGILE?
watch now

INTRO TO SCRUM FRAMEWORK

Introduction to Scrum Framework Training is highly recommended for software engineers, also business people who are involved in software development lifecycle. Regardless of whether you are a member of a development or a business team, everyone should know the Scrum basics, the most common Agile framework in the world.

This training provides an interactive introduction to Scrum, including a deep understanding of each Scrum team member's responsibilities. Furthermore, how Scrum fosters the growth of organizations, teams, products, and individuals. You can apply with Scrum on your projects, manage a Product Backlog or successfully drive during the implementation of Scrum within your team and company.

The main topics of the training:

- Agile Approach vs. Waterfall;
- Scrum Elements & Characteristics;
- Scrum Roles;
- Sprint Planning;
- Scrum Artefacts;
- Exercises and Q&A's.

SCRUM ESSENTIALS IN UNDER 10 MINUTES
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**THE SCRUM FRAMEWORK AT A GLANCE**
download now

KANBAN TRAINING

Kanban originates from Toyota as a method to manage and optimize flow of the work. It enables teams to continuously improve through workflow visualization. In Kanban, teams use cards and boards to manage their work, trigger reaction in the systems, minimize waste, learn and continuously improve.

Kanban System can help if you experience a lot of waiting, long time to deliver, overwhelming work, lack of clarity of who does what and what is a priority and all that with frequent changes.

Using Kanban can help you to have:
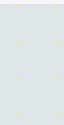
- optimized process for production and development;
- built-in process for improving team processes, effectiveness and satisfaction;
- shorter time to deliver, higher quality;
- a quick start without upfront change in order to evolve your organization.

blog post **KANBAN - WHEN AND WHY**
read now

blog post **KANBAN VS SCRUM**
read now

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DESIGN SPRINT TRAINING

A Way To Solve Critical Problems

The Design Sprint is an unavoidable framework that will help POs (and their teams) successfully discover what the users think of their ideas. In only 5 days team will experience the journey from understanding the problem they have to solve, through ideation of the solution. Furthermore, prototyping and finally validating their hypothesis with the end-users.

Learning objectives:

- What is the Design Sprint;
- When does it make sense to use it;
- Detailed tutorial for each day of the sprint with explained techniques used, roles and challenges;
- Simulation of each day of the sprint (the trainees go through main techniques on one imaginary use case);
- How to "sell" Design Sprint to your boss.

AGILE REQUIREMENTS & USER STORIES TRAINING

One of the biggest challenges in software development is very challenging task of gathering clear requirements and then getting those requirements to remain unchanged during code development. Very characteristic for traditional project management. Therefore, here Agile offers proper solution with User Stories.

The User Stories training offers a comprehensive, hands-on introduction to authoring high quality user stories combining various techniques. Because User Stories helps us manage requirements. Above all their primary job is to define the value a user gains from the system. Since User Stories focus on the underlying Agile values of collaboration and Just-In-Time definition, it makes them a good Agile tool.

blog post — **AGILE REQUIREMENTS AND USER STORIES – WHY AND HOW?**
read now

blog post — **CHALLENGES WITH USER STORY**
read now

AGILE PLANNING & ESTIMATING TRAINING

"Agile Planning & Estimating" is the training that provides an elaboration of Agile Planning and Estimating principles, practices and techniques, why to estimate and how to plan. Businesses need estimates to influence project selection, resource allocation, also to understand what will be delivered. Furthermore, when and at what cost, so needs good base for a successful plan. Training will help you with planning and show you how to create meaningful estimates even for complex, long-term projects.

Although many teams find planning as a potential break, still planning is a key part of all project development. Even with agile ones. It is possible to create a project plan that looks forward 6-9 months and is accurate and useful. Training provides insight into the common reasons what kind of advantages you can obtain comparing to traditional planning method.

This training will introduce participants with importance of estimating size and deriving duration, also with differences between story points and ideal time, same as with advantages of an abstract measure of size.

AGILE VS TRADITIONAL PLANNING – WHAT IS APPROPRIATE TO YOU?
WHY AGILE ESTIMATING?
read now

blog post

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OKRS FUNDAMENTALS CERTIFICATION WORKSHOP

Did you know that setting ambitious goals consistently leads to higher performance than just urging people to do their best? Building a goal model is a visual way to identify what the organization wants to achieve. It forces the team to ask the hard questions that lead to the higher purpose, but our environments change so quickly, which makes working with annual goals really hard.

This workshop will help you discover and master OKRs, an agile approach to goal setting, designed by John Doerr, the man who helped Google become the No.1 Company in the world by using this tool.

OKRs Fundamentals is a program dedicated to people looking for a modern approach to co-creating organizational goals. Goals that both inspire, allow you to direct and synchronize many work streams, and above all, engage colleagues.

Proper application of the OKR's concept, allows for building transparency of organizational goals, enabling setting priorities and minimizing the risk of conflict or exclusion of organizational goals, which paradoxically still takes place in many organizations.

▶ **WHY THE SECRET TO SUCCESS IS SETTING THE RIGHT GOALS | JOHN DOERR**
watch now

blog post 🌐 **WHY, WHAT, AND HOW TO MEASURE?**
read now

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TECHNICAL COURSES

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AVAILABLE COURSES

MICROSOFT AZURE

AMAZON WEB SERVICES

ANGULAR

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AVALIABLE MICROSOFT AZURE COURSES

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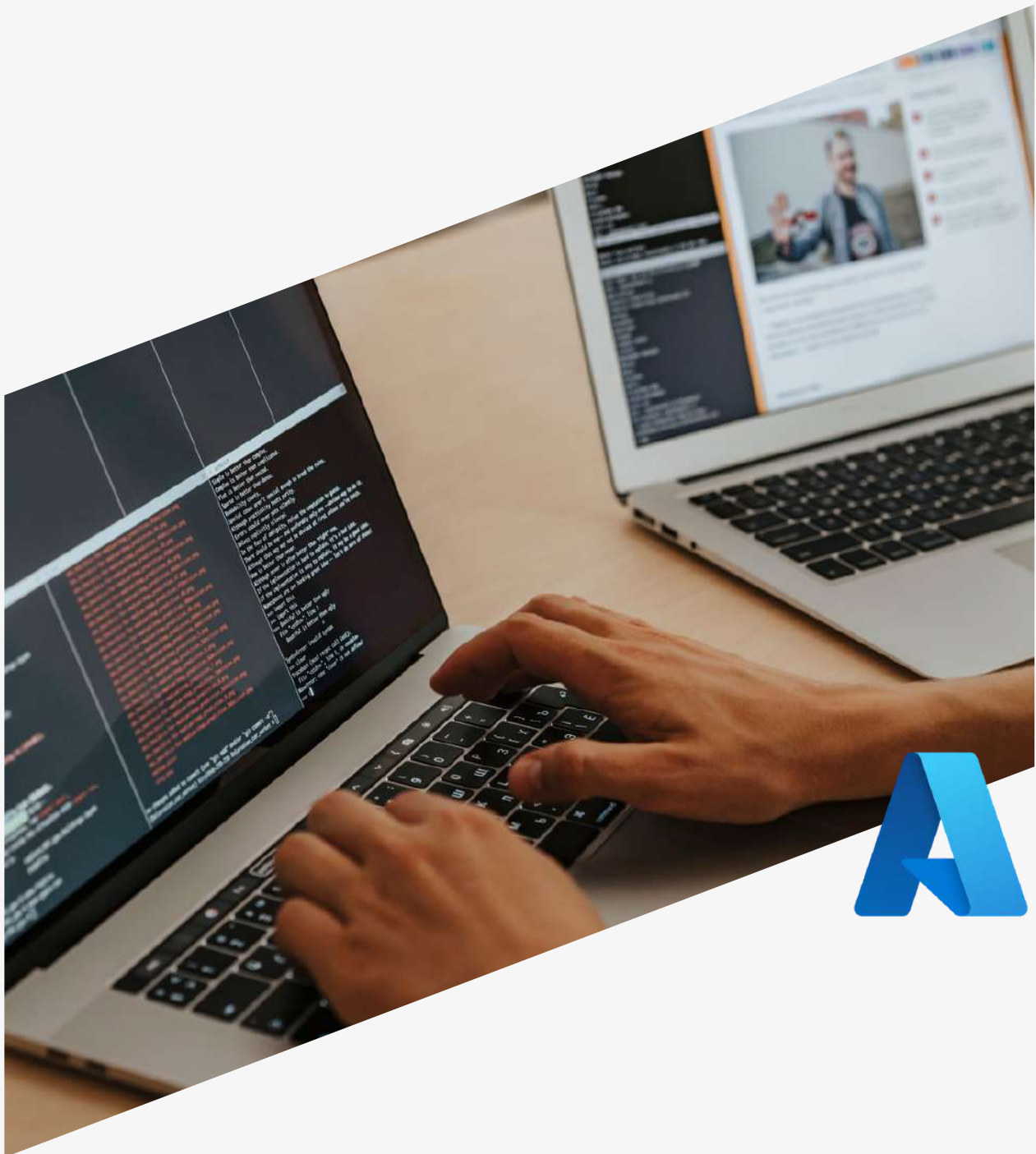
AZ-900: MICROSOFT AZURE FUNDAMENTALS

This course will provide foundational level knowledge on cloud concepts; core Azure services; and Azure management and governance features and tools. This course is suitable for IT personnel who are just beginning to work with Azure. This audience wants to learn about our offerings and get hands-on experience with the product. This course primarily uses the Azure portal and command line interface to create resources and does not require scripting skills. Students in this course will gain confidence to take other role-based courses and certifications, such as Azure Administrator.

This course is intended for:

- Cloud computing professionals
- IT system administrators
- Software engineers
- Software architects
- Other IT staff
- Project Managers
- Business Analyst
- Non IT staff

Recomended Prerequisites

- Basic understanding of IT services
- Basic knowledge of cloud computing concepts

Learning outcomes

- Understand core cloud computing concepts such as cloud computing and its benefits
- Be familiar with core Azure services and the available resources in the Azure platform
- Understand the concept of roles and role-based access control (RBAC) in Azure
- Be aware of the different pricing models

AZ-104: MICROSOFT AZURE ADMINISTRATOR

This course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

This course is intended for:

- IT professionals who are interested in learning about how to manage Microsoft Azure cloud-based services
- Professionals working in system administration, networking, cloud development, and DevOps, who need to understand how to implement, monitor and maintain Microsoft Azure solutions

Recomended Prerequisites

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks
- Understanding of network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies
- Understanding of Active Directory concepts, including users, groups, and role-based access control
- Understanding of resilience and disaster recovery, including backup and restore operations

Learning outcomes

- This course teaches participants how to manage Azure cloud services, identities, storage, network, and virtual machines. Participants will learn the key aspects to managing their Azure subscriptions, how to secure and organize resources, and how to monitor, troubleshoot and optimize their cloud applications.
- They will develop a solid understanding of cloud services, Azure administration and networking, and best practices for deploying, configuring, and managing workloads in Azure. The course covers the essential topics of Azure cost optimization and governance to ensure a successful cloud experience.

LEVEL: INTERMEDIATE

AZ-204: DEVELOPING SOLUTIONS FOR MICROSOFT AZURE

This course teaches developers how to create end-to-end solutions in Microsoft Azure. Students will learn how to implement Azure compute solutions, create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, implement authentication and authorization, and secure their solutions by using KeyVault and Managed Identities. Students will also learn how to connect to and consume Azure services and third-party services, and include event- and message-based models in their solutions. The course also covers monitoring, troubleshooting, and optimizing Azure solutions.

This course is intended for:

- Technology professionals in the role of software developer who develop customizations and applications for organizations running on the Microsoft Azure platform.
- Cloud and .NET developers, as well as DevOps engineers who want to develop and deploy applications and services to Microsoft Azure
- IT professionals planning to develop customizations for Azure solutions and for those who need to analyze existing customer solutions and understand how to design, write, and deploy cloud applications.

Recomended Prerequisites

- Hands-on experience with Azure IaaS and PaaS solutions, and the Azure Portal
- Experience writing in an Azure supported language at the intermediate level. (C#, JavaScript, Python, or Java)
- Ability to write code to connect and perform operations on, a SQL or NoSQL database product. (SQL Server, Oracle, MongoDB, Cassandra or similar)
- Experience writing code to handle authentication, authorization, and other security principles at the intermediate level
- A general understanding of HTML, the HTTP protocol and REST API interfaces

Learning outcomes

- This course teaches participants how to manage Azure cloud services, identities, storage, network, and virtual machines. Participants will learn the key aspects to managing their Azure subscriptions, how to secure and organize resources, and how to monitor, troubleshoot and optimize their cloud applications.
- They will develop a solid understanding of cloud services, Azure administration and networking, and best practices for deploying, configuring, and managing workloads in Azure. The course covers the essential topics of Azure cost optimization and governance to ensure a successful cloud experience.

LEVEL: ADVANCED

AZ-305: DESIGNING MICROSOFT AZURE INFRASTRUCTURE SOLUTIONS

This course teaches Azure Solution Architects how to design infrastructure solutions. Course topics cover governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations. The course combines lecture with case studies to demonstrate basic architect design principles.

This course is intended for:

- IT professionals with a minimum of 3-5 years' experience in administering and operating complex IT infrastructure solutions. Participants should include professionals working with Windows Server, Active Directory, and other IT resources, as well as professionals looking to learn how to architect, design, and deploy services in Microsoft Azure. Participants should also have some exposure to Azure, familiar with basic technologies, including virtualization, networking, storage, security, and the Microsoft software solutions

Recomended Prerequisites

- Previous experience deploying or administering Azure resources and strong conceptual knowledge of:
- Azure Active Directory
- Azure compute technologies such as VMs, containers and serverless solutions
- Azure virtual networking to include load balancers
- Azure Storage technologies (unstructured and databases)
- General application design concepts such as messaging and high availability

Learning outcomes

- This course helps individuals to gain the skills and knowledge needed to design solutions that run on Microsoft Azure. At the conclusion of this training, learners will have the ability to understand core Azure technologies in order to design effective architectures. Next, they will be able to identify appropriate technologies for business and technical requirements for Azure solutions and make differences between IaaS, Paas, & SaaS. Also, they will be able to design & deploy a virtual network in Microsoft Azure, design & configure storage solutions, analyze & configure Azure compute appropriate for requirements, design & implement an application infrastructure, plan & implement an Azure cost management strategy; develop & deploy Azure Cloud services, and design & deploy ARM (Azure Resource Manager) templates.

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LEVEL: ADVANCED

AZ-400: DESIGNING & IMPLEMENTING MICROSOFT DEVOPS SOLUTIONS

This course provides the knowledge and skills to design and implement DevOps processes and practices. Students will learn how to plan for DevOps, use source control, scale Git for an enterprise, consolidate artifacts, design a dependency management strategy, manage secrets, implement continuous integration, implement a container build strategy, design a release strategy, set up a release management workflow, implement a deployment pattern, and optimize feedback mechanisms.

This course is intended for:

- This course is designed to help IT Professionals, Developers and System Administrators gain skills to create comprehensive DevOps solutions on Microsoft Azure.
- This course is targeted at professionals who wish to move away from traditional development and to learn the latest DevOps techniques

Recomended Prerequisites

- Cloud computing concepts, including an understanding of PaaS, SaaS, and IaaS implementations
- Both Azure administration and Azure development with proven expertise in at least one of these areas
- Version control, Agile software development, and core software development principles. It would be helpful to have experience in an organization that delivers software

Learning outcomes

- This course will enable learners to understand the concepts and principles of DevOps and the application of DevOps on the Azure platform, as well as continuous delivery and release management. Attendees will be able to create and configure Kubernetes clusters, create and maintain Azure operations, and create and configure an automated build pipeline to build applications. Next, they will integrate Azure Monitor, App Insights and Network Watcher into DevOps processes and manage secure and reliable applications with Azure DevOps.

LEVEL: INTERMEDIATE

AZ-500: MICROSOFT AZURE SECURITY TECHNOLOGIES

This course provides IT Security Professionals with the knowledge and skills needed to implement security controls, maintain an organization's security posture, and identify and remediate security vulnerabilities. This course includes security for identity and access, platform protection, data and applications, and security operations.

This course is intended for:

- Systems administrators and security engineers who are responsible for the secure deployment and management of cloud solutions
- Architects and developers who need to understand security requirements for authentication, authorization, and auditing of services used in cloud-based solutions.

Recomended Prerequisites

- Security best practices and industry security requirements such as defense in-depth, least privileged access, role-based access control, multi-factor authentication, shared responsibility, and zero trust model
- Be familiar with security protocols such as Virtual Private Networks (VPN), Internet Security Protocol (IPSec), Secure Socket Layer (SSL), disk and data encryption methods
- Have some experience deploying Azure workloads. This course does not cover the basics of Azure administration, instead the course content builds on that knowledge by adding security specific information
- Have experience with Windows and Linux operating systems and scripting languages.

Learning outcomes

- This course will enable learners to understand Microsoft Azure security components and capabilities, such as Security Center, Monitor, Key Vault, and Log Analytics, and how to integrate on-premises environments with Azure for maximum security. Attendees will Learn about Azure AD identity and access management features, such as identity protection and access reviews as well as how to configure network security, role-based access control, and advanced threat protection. They will gain the skills and knowledge to secure data in Azure, including data storage, data encryption, rights management, and data classification. Also they will develop skills in implementing and managing identity, access, privacy, and security solutions on Azure, and an understanding of how to protect your applications using Azure App Service, Azure Kubernetes Service, and Application Security Groups.

LEVEL: INTERMEDIATE

DP-100: DESIGNING & IMPLEMENTING DATA SCIENCE SOLUTION ON AZURE

Learn how to operate machine learning solutions at cloud scale using Azure Machine Learning. This course teaches you to leverage your existing knowledge of Python and machine learning to manage data ingestion and preparation, model training and deployment, and machine learning solution monitoring in Microsoft Azure. This course is designed for data scientists with existing knowledge of Python and machine learning frameworks like Scikit-Learn, PyTorch, and Tensorflow, who want to build and operate machine learning solutions in the cloud.

This course is intended for:

- This course is ideal for data professionals, engineers, scientists and architects looking to broaden their skills in creating quality data science solutions on the Microsoft Azure platform.

Recomended Prerequisites

- Basic data science concepts such as data cleansing, analysis, interpretation, and visualizations
- Knowledge of the data science landscape and its associated tools Familiarity with Azure services, core Azure architecture, and the basics of working with virtual machines
- Familiarity with database technologies and query languages such as SQL
- Experience with development languages like Python, R, etc. to handle data science tasks
- Understanding of machine learning algorithms and processes, including supervised, unsupervised, and reinforcement learning

Learning outcomes

- After finishing this course learners will gain a deep understanding of the definition and scope of data science, will be knowledgeable of the various Azure services related to data science, will have an opportunity to apply their knowledge to designing a data science solution on Azure. They will understand how to use Azure Machine Learning development tools, such as Azure Notebooks, Visual Studio Code, and Jupyter Notebook, will be capable of using Azure Storage, including Azure Blob Storage, Azure Data Lake Storage and Azure SQL Database, will have the ability to use Azure Cognitive Services, such as the Microsoft Bot Framework, Language Understanding and Computer Vision APIs, will be able to use the Azure Machine Learning Model Management Service to manage and deploy predictive models. Finally, learners will have the capability to monitor the performance of their data science solutions on Azure.

LEVEL: INTERMEDIATE

SC-200: MICROSOFT SECURITY OPERATIONS ANALYST

Learn how to investigate, respond to, and hunt for threats using Microsoft Sentinel, Microsoft Defender for Cloud, and Microsoft 365 Defender. In this course you will learn how to mitigate cyberthreats using these technologies. Specifically, you will configure and use Microsoft Sentinel as well as utilize Kusto Query Language (KQL) to perform detection, analysis, and reporting. The course was designed for people who work in a Security Operations job role and helps learners prepare for the exam SC-200: Microsoft Security Operations Analyst.

This course is intended for:

- Cyber security professionals who wish to increase their knowledge and expertise in identifying, understanding, and responding to a variety of security threats.

Recomended Prerequisites

- Basic understanding of Microsoft 365
- Fundamental understanding of Microsoft security, compliance, and identity products
- Intermediate understanding of Microsoft Windows
- Familiarity with Azure services, specifically Azure SQL Database and Azure Storage
- Familiarity with Azure virtual machines and virtual networking
- Basic understanding of scripting concepts

Learning outcomes

- This course will enable attendees to understand foundational Microsoft security concepts such as cloud security architecture, security monitoring, and incident response, as well as to understand the importance of identity and authentication solutions such as multi-factor authentication and application access control. They will learn how to use Microsoft security solutions such as the Microsoft Security Graph to diagnose threats and assess attack surfaces, and how to tune security appliances and make system configurations to maximize protection. Learners will develop practical skills needed to identify exploitable vulnerabilities and threats, deploy mitigation solutions, and improve security posture, as well as develop best practices for logging and forensics techniques to accurately pinpoint the origin and impact of an incident. Finally, they will learn to create reports to document the results of security investigations with actionable analytics.

SC-300: MICROSOFT IDENTITY & ACCESS

The Microsoft Identity and Access Administrator course explores how to design, implement, and operate an organization's identity and access management systems by using Azure AD. Learn to manage tasks such as providing secure authentication and authorization access to enterprise applications. You will also learn to provide seamless experiences and self-service management capabilities for all users. Finally, learn to create adaptive access and governance of your identity and access management solutions ensuring you can troubleshoot, monitor, and report on your environment. The Identity and Access Administrator may be a single individual or a member of a larger team. Learn how this role collaborates with many other roles in the organization to drive strategic identity projects. The end goal is to provide you knowledge to modernize identity solutions, to implement hybrid identity solutions, and to implement identity governance.

This course is intended for:

- experienced system administrators
- IT auditors and information security professionals looking to gain the skills necessary to gain access control and identity management competency in their organizations

Recomended Prerequisites

- Security best practices and industry security requirements such as defense in depth, least privileged access, shared responsibility, and zero trust model
- Be familiar with identity concepts such as authentication, authorization, and active directory
- Have some experience deploying Azure workloads. This course does not cover the basics of Azure administration, instead the course content builds on that knowledge by adding security specific information
- Some experience with Windows and Linux operating systems and scripting languages is helpful but not required. Course labs may use PowerShell and the CLI

Learning outcomes

- After finishing this course learners will understand the components of the Microsoft Identity and Access Management Package (IAM) and how to deploy Microsoft Identity and Access Management systems. They will learn about privileges, roles, and entitlements for access control, learn to monitor and audit user access and how to manage the system from a remote environment. Attendees will develop an understanding of identity stores and users management, and of authentication and authorization. Finally, they will gain knowledge of identity lifecycle management and the skills necessary to effectively control, manage, and troubleshoot the IAM implementation.

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AVALIABLE AMAZON WEB SERVICES COURSES

aws

LEVEL: INTERMEDIATE

CLOUD OPERATIONS ON AWS

This course is for individuals who seek an overall understanding of the Amazon Web Services (AWS) Cloud, independent of specific technical roles. You will learn about AWS Cloud concepts, AWS services, security, architecture, pricing, and support to build your AWS Cloud knowledge. This course also helps you prepare for the AWS Certified Cloud Practitioner exam.

This course is intended for:
- System administrators and operators who are operating in the AWS Cloud
- Informational technology workers who want to increase their cloud operations knowledge

Recomended Prerequisites
- Completed AWS Cloud Practitioner Essentials
- A background in software development or systems administration
- Proficiency in maintaining operating systems at the command line, such as shell scripting in Linux environments or cmd/PowerShell in Windows
- Basic knowledge of networking protocols (TCP/IP, HTTP)

Learning outcomes
- In this course, you will learn to:
- Identify the AWS services that support the different phases of Operational Excellence, an AWS Well-Architected Framework pillar
- Manage access to AWS resources using AWS accounts and organizations and AWS Identity and Access Management (IAM)
- Maintain an inventory of in-use AWS resources by using AWS services, such as AWS Systems Manager, AWS CloudTrail, and AWS Config
- Develop a resource deployment strategy using metadata tags, Amazon Machine Images (AMIs), and AWS Control Tower to deploy and maintain an AWS cloud environment

Course outline
- Module 1: Introduction to System Operations on AWS
- Module 2: Access Management
- Module 3: System Discovery
- Module 4: Deploy and Update Resources
- Module 5: Automate Resource Deployment
- Module 6: Manage Resources
- Module 7: Configure Highly Available Systems
- Module 8: Automate Scaling
- Module 9: Monitor and Maintain System Health
- Module 10: Data Security and System Auditing
- Module 11: Operate Secure and Resilient Networks
- Module 12: Mountable Storage
- Module 13: Object Storage
- Module 14: Cost Reporting, Alerts, and Optimization

aws

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"ARCHITECTING ON AWS

Through a series of use case scenarios and practical learning, you will learn to identify services and features to build resilient, secure, and highly available IT solutions in the AWS Cloud. Expert AWS Instructors emphasize best practices using the AWS Well-Architected Framework and guide you through the process of designing optimal IT solutions, based on real-life scenarios. At the end of the course, you will practice building a solution and apply what you've learned with confidence.

This course is intended for:

- Solution architects
- Solution-design engineers
- Developers seeking an understanding of AWS architecting
- Individuals seeking the AWS Solutions Architect-Associate certification

Recomended Prerequisites

- Completed AWS Cloud Practitioner Essentials, or AWS Technical Essentials
- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Familiarity with IP addressing
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

Learning outcomes

- In this course, you will learn to:
- Identify AWS architecting basic practices
- Identify services and features to build resilient, secure, and highly available IT solutions in the AWS Cloud
- Learn the process of designing optimal IT solutions using the AWS Well-Architected Framework, based on real-life scenarios
- Explore AWS services for account security, networking, compute, storage, databases, monitoring, automation, containers, serverless architecture, edge services, and backup and recovery

Course outline

- Module 1: Architecting Fundamentals Review / Lab 1: Explore using the AWS API to deploy an EC2 instance
- Module 2: Account Security
- Module 3: Networking, part 1
- Module 4: Compute / Lab 2: Build your Amazon VPC Infrastructure
- Module 5: Storage
- Module 6: Database Services / Lab 3: Create a database layer in your Amazon VPC infrastructure
- Module 7: Monitoring and Scaling / Lab 4: Configure high availability in your Amazon VPC
- Module 8: Automation
- Module 9: Containers
- Module 10: Networking, Part 2
- Module 11: Edge Services / Lab 5: Build a Serverless Architecture
- Module 12: Serverless Architecture / Lab 6: Configure an Amazon CloudFront distribution with an Amazon S3 origin
- Module 13: Backup and Recovery / Capstone Lab

aws

LEVEL: INTERMEDIATE

DEVELOPING ON AWS

This course teaches experienced developers how to programmatically interact with AWS services to build web solutions. It guides you through a high-level architectural discussion on resource selection and dives deep into using the AWS Software Development Kits (AWS SDKs) and Command Line Interface (AWS CLI)to build and deploy your cloud applications. You will build a sample application during this course, learning how to set up permissions to the development environment, adding business logic to process data using AWS core services, configure user authentications, deploy to AWS cloud, and debug to resolve application issues. The course includes code examples to help you implement the design patterns and solutions discussed in the course. The labs reinforce key course content and help you to implement solutions using the AWS SDK for Python, .Net, and Java, the AWS CLI, and the AWS Management Console.

This course is intended for:
- Software developers
- Solution architects
- IT workers who want to improve their developing skills using AWS Services

Recomended Prerequisites
- Completed AWS Cloud Practitioner Essentials
- Working knowledge of AWS core services
- Programming experience in any one of the following languages: Python, Java or .NET

Learning outcomes
- In this course, you will learn to:
- Build a simple end-to-end cloud application using AWS Software Development Kits (AWS SDKs), Command Line Interface (AWS CLI), and IDEs
- Configure AWS Identity and Access Management (IAM) permissions to support a development environment
- Use multiple programming patterns in your applications to access AWS services
- Use AWS SDKs to perform CRUD (create, read, update, delete) operations on Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB resources

Course outline
- Module 1: Building a Web Application on AWS
- Module 2: Getting Started with Development on AWS
- Module 3: Getting Started with Permissions / Lab 1: Configure the Developer Environment
- Module 4: Getting Started with Storage
- Module 5: Processing Your Storage Operations / Lab 2: Develop Solutions Using Amazon S3
- Module 6: Getting Started with Databases
- Module 7: Processing Your Database Operations / Lab 3: Develop Solutions Using Amazon DynamoDB
- Module 8: Processing Your Application Logic / Lab 4: Develop Solutions Using AWS Lambda Functions
- Module 9: Managing the APIs / Lab 5: Develop Solutions Using Amazon API Gateway
- Module 10: Building a Modern Application
- Module 11: Granting Access to Your Application Users / Lab 6: Capstone – Complete the Application Build
- Module 12: Deploying Your Application
- Module 13: Observing Your Application / Lab 7: Observe the Application Using AWS X-Ray

aws

LEVEL: FUNDAMENTAL

AWS CLOUD PRACTITIONER ESSENTIALS

This course is for individuals who seek an overall understanding of the Amazon Web Services (AWS) Cloud, independent of specific technical roles. You will learn about AWS Cloud concepts, AWS services, security, architecture, pricing, and support to build your AWS Cloud knowledge. This course also helps you prepare for the AWS Certified Cloud Practitioner exam.

This course is intended for:
- Sales
- Legal
- Marketing
- Business analysts
- Project managers
- Other IT-related professionals

Recomended Prerequisites
- General IT business knowledge
- General IT technical knowledge

Learning outcomes
- In this course, you will learn to:
- Describe the basic global infrastructure of the AWS Cloud and its six benefits
- Describe and provide an example of the core AWS services, including compute, network, databases, and storage
- Describe the AWS Well-Architected Framework, the shared responsibility model, the core security services within the AWS Cloud, and the basics of AWS Cloud migration
- Articulate the financial benefits of the AWS Cloud for an organization's cost management, define the core billing, account management, and pricing models, and explain how to use pricing tools to make cost-effective choices for AWS services

Course outline
- Module 1: Introduction to Amazon Web Services
- Module 2: Compute in the Cloud
- Module 3: Global Infrastructure and Reliability
- Module 4: Networking
- Module 5: Storage and Databases
- Module 6: Security
- Module 7: Monitoring and Analytics
- Module 8: Pricing and Support
- Module 9: Migration and Innovation
- Module 10: The Cloud Journey
- Module 11: AWS Certified Cloud Practitioner Basics

The training can be organized on-site (in your company), tailored to companies needs.

aws

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AVALIABLE ANGULAR COURSES

BASIC ANGULAR 12

This course is designed to introduce you to Angular, as well as to familiarize you with all its functionalities through practical work. In this course you will create a complete one-page application, and in this process, you will best understand what are the advantages of one-page applications, how you can consume the REST API, how to manage data in the front end and how to provide the best user experience on its own application. You will learn how to make the most of all the advantages of the Angular framework and how to apply them in your business. Angular allows you to quickly compose functions using simple, declarative templates. Its flexibility allows you to focus on building amazing applications, instead of wasting time and energy on code fixes.

This course is intended for:

- If you know the basic principles of object-oriented programming and have experience working with HTML/CSS and JavaScript, basic Angular course is ideal for you.

Learning outcomes
In this course, you will learn to:

- Angular architecture concepts
- Creating and testing Angular applications
- Templates
- Data binding and forms
- Dependency injections
- Pipes
- Observables
- Directives and transclusion
- Routing and navigation
- Calling REST services
- Angular CLI
- Testing

Course outline

- Introduction to Angular
- TypeScript
- How Angular works?
- Built-in directives
- Forms in Angular
- Dependency injection
- HTTP
- Routing
- Data architecture in Angular
- Data Architecture with Observables
- Advanced components
- Testing
- NativeScript: Mobile apps for Angular

ADVANCED ANGULAR 12

Advanced Angular course is comprehensive and deeply explores the framework and architecture of more demanding applications. Through this course, you will have the opportunity to create complex one-page applications using all the functionalities of this framework. You will have a better understanding of Angular code and will be able to independently solve complex problems that you will encounter in your own or team projects. You will create scalable solutions with the advice of our experienced trainers, and you will always be confident in your code, because you will learn how to fully use the potential of Angular.

This course is intended for:

- If you already have experience working with the Angular framework, or you have completed basic Angular course and want to improve your knowledge, you are in the right place.

Learning outcomes

- In this course, you will learn to:
- The goal of the course is to enable users to create an interactive web application created using Angular 12 and advanced JavaScript techniques. Additionally, users will understand the working principle of the server language, client communication with the application, generation of drafts, exchange and work with data and their dynamic display.

Course outline

- Introduction
- Complex forms
- Custom validation
- Lazy loading
- Advanced components
- Unit testing
- Mock, stub and spy
- Interceptors
- Dependency injection
- Data caching strategies
- Practical exercises
- ngRx:
  *how to set up ngRx
  *basic examples – actions, effects, store update
  *tooling for ngRx
- Creating your own library for Angular projects
  *creating a project, adding features
  *setting up a project to npm repository

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