

## Concevoir des solutions d'infrastructure Microsoft Azure

**Durée: 4 Jours**    **Réf de cours: M-AZ305**    **Méthodes d'apprentissage: Intra-entreprise & sur-mesure**

### Résumé:

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.

#### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

### Public visé:

Successful students have experience and knowledge in IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance. Students also have experience designing and architecting solutions.

### Objectifs pédagogiques:

- **Skills gained**
- Design a governance solution.
- Design a compute solution.
- Design an application architecture.

### Pré-requis:

Before attending this course, students must have previous experience deploying or administering Azure resources and 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
- M-AZ104 - Microsoft Azure Administrateur

## Contenu:

### Module 1: Design compute and application solutions

In this module you will learn about governance, compute, and application architectures.

#### Lessons of Module 1

- Design for governance
- Design for compute solutions
- Design for application architectures

#### Lab : Case studies of Module 1

After completing this module, students will be able to:

- Design a governance solution.
- Design a compute solution.
- Design an application architecture.
- Design non-relational storage solutions.
- Design relational storage solutions.
- Design a data integration solution.
- Design authentication and authorization solutions.
- Design network solutions.
- Design backup and disaster recovery.
- Design monitoring solutions.
- Design for migrations.

### Module 2: Design storage solutions

In this module, you will learn about non-relational storage, relational storage, and data integration solutions.

#### Lessons of Module 2

- Design a non-relational storage solution.
- Design a relational storage solution.
- Design a data integration solution.

#### Lab : Case studies of Module 2

After completing this module, students will be able to:

- Design a governance solution.
- Design a compute solution.
- Design an application architecture.
- Design non-relational storage solutions.
- Design relational storage solutions.
- Design a data integration solution.
- Design authentication and authorization solutions.
- Design network solutions.
- Design backup and disaster recovery.
- Design monitoring solutions.
- Design for migrations.

### Module 3: Design networking and access solutions

In this module you will learn about authentication and authorization, identity and access for applications, and networking solutions.

#### Lessons of Module 3

- Design authentication and authorization solutions
- Design networking solutions

#### Lab : Case studies of Module 3

After completing this module, students will be able to:

- Design a governance solution.
- Design a compute solution.
- Design an application architecture.
- Design non-relational storage solutions.
- Design relational storage solutions.
- Design a data integration solution.
- Design authentication and authorization solutions.
- Design network solutions.
- Design backup and disaster recovery.
- Design monitoring solutions.
- Design for migrations.

### Module 4: Design business continuity solutions

#### Lessons of Module 4

- Design for backup and disaster recovery
- Design monitoring solutions
- Design for migrations

#### Lab : Case studies of Module 4

After completing this module, students will be able to:

- Design a governance solution.
- Design a compute solution.
- Design an application architecture.
- Design non-relational storage solutions.
- Design relational storage solutions.
- Design a data integration solution.
- Design authentication and authorization solutions.
- Design network solutions.
- Design backup and disaster recovery.
- Design monitoring solutions.
- Design for migrations.

## Autres moyens pédagogiques et de suivi:

- Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
- Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.
- Modalités d'évaluation : le participant est invité à s'auto-évaluer par rapport aux objectifs énoncés.
- Chaque participant, à l'issue de la formation, répond à un questionnaire de satisfaction qui est ensuite étudié par nos équipes pédagogiques en vue de maintenir et d'améliorer la qualité de nos prestations.

Délais d'inscription :

- Vous pouvez vous inscrire sur l'une de nos sessions planifiées en inter-entreprises jusqu'à 5 jours ouvrés avant le début de la formation sous réserve de disponibilité de places et de labs le cas échéant.
- Votre place sera confirmée à la réception d'un devis ou ""booking form"" signé. Vous recevrez ensuite la convocation et les modalités d'accès en présentiel ou distanciel.
- Attention, si vous utilisez votre Compte Personnel de Formation pour financer votre inscription, vous devrez respecter un délai minimum et non négociable fixé à 11 jours ouvrés.