Develop Azure Compute Solutions

└ 1.2 Implement Azure App Service Web Apps

└ 1.2.5 Implement Auto-Scaling

1. What scaling options are available in Azure App Service?
2. How do you configure autoscale rules using CLI?
3. What metrics can be used for autoscaling?
4. How do you set instance count manually?
5. What are best practices for autoscaling App Service?

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1. What scaling options are available in Azure App Service?

- Manual scale: Fixed instance count
- Autoscale: Rule-based via CPU, memory, schedule
  Available in Standard, Premium, Isolated tiers only.

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2. How do you configure autoscale rules using CLI?

```
az monitor autoscale create \
  --resource <app-service-plan-id> \
  --resource-group <rg> \
  --name autoscale-rule \
  --min-count 1 --max-count 5 --count 2
az monitor autoscale rule create \
  --resource-group <rg> \
  --autoscale-name autoscale-rule \
  --condition "CpuPercentage > 70 avg 5m" \
  --scale out 1
```

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3. What metrics can be used for autoscaling?

- CPUPercentage
- MemoryPercentage (Premium+ plans)
- HttpQueueLength
- Schedule-based triggers

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4. How do you set instance count manually?

```
az appservice plan update \
  --name <plan> --resource-group <rg> \
  --number-of-workers <count>
```

Used for fixed scaling when autoscale is not enabled.

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5. What are best practices for autoscaling App Service?

- Use min/max limits to control scale boundaries
- Combine CPU and schedule rules for stability
- Enable App Insights to monitor autoscale behavior
- Use Premium tiers for memory-based and faster scaling