

Waiting for Human Interaction



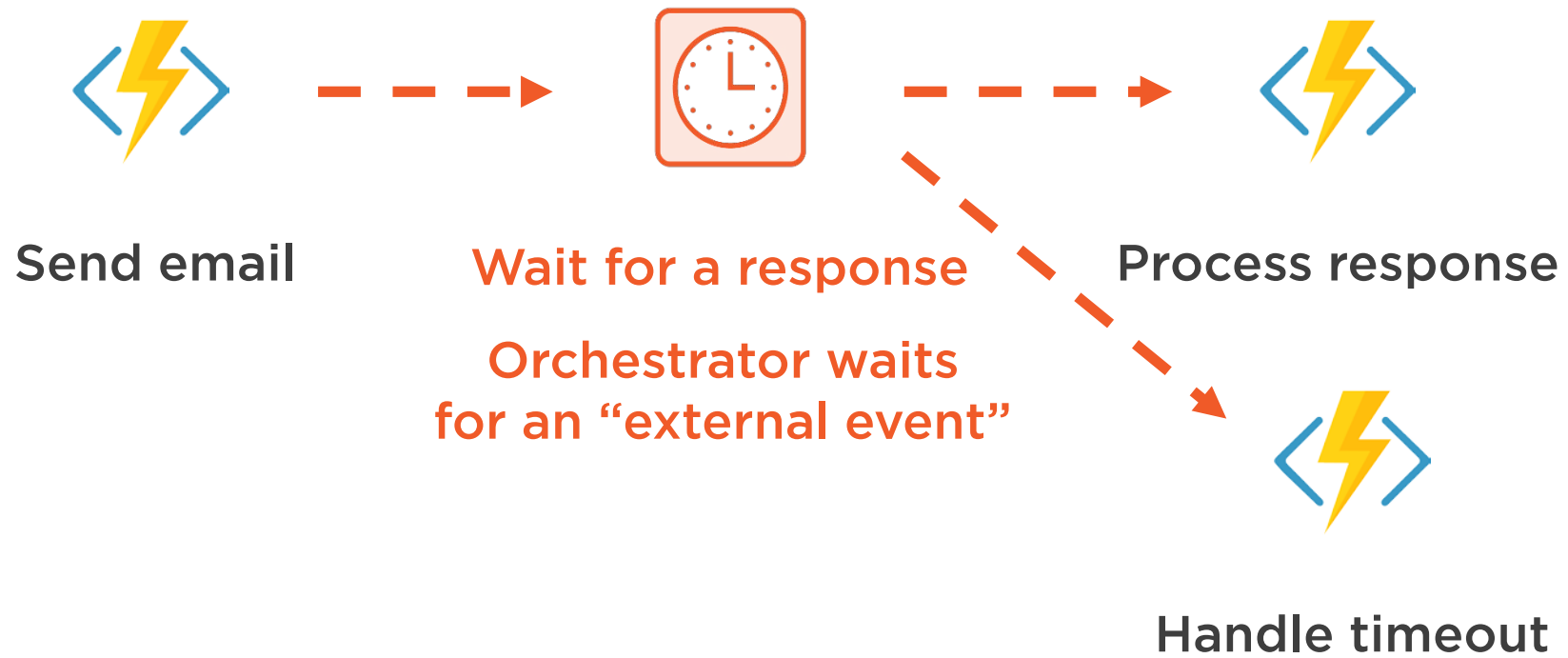
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Waiting for External Events



Demo Scenario



Demo



Waiting for an “external event”

- Send email activity function
- WaitForExternalEvent



Demo



Testing waiting for external events

- Send the event with REST API



Sending Events to Workflows



Send using the 'raiseEvent' API

- This endpoint includes a secret key

Human interaction triggers a regular Azure Function

- HTTP trigger
- Queue trigger

External systems might send webhooks

- Receive webhook and pass on event to workflow

DurableOrchestrationClient.RaiseEventAsync



Demo



Sending events to orchestrations

- Approval and rejection links
- HTTP triggered function
- Sends event to orchestration



Demo



Testing the approval workflow

- Send an email with SendGrid
- Follow the approval link
- Calls SubmitVideoApproval
- Look up orchestration id
- Pass the event on to the orchestration



Timing out External Events



Do-it-yourself approach

- Send a future scheduled message
- When it arrives, check if activity has completed

Durable Functions makes it easy!

Demo



Timing out external events

- Create a timer
- Determine what happened first



Demo



Testing the timeout workflow

- Wait for external event
- Timer task will fire



Summary



Wait for external events

- WaitForExternalEvent

Send an event to a workflow

- Use the REST API
- Use RaiseEventAsync

Implement timeouts

- CreateTimer
- Task.WhenAny

Up next ...

Never-ending
orchestrations

