

**Skills**  
Network

**Class Component Lifecycle**

**IBM**

# Class Component Lifecycle

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# What you will learn

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Explain a component's lifecycle



Describe each phase

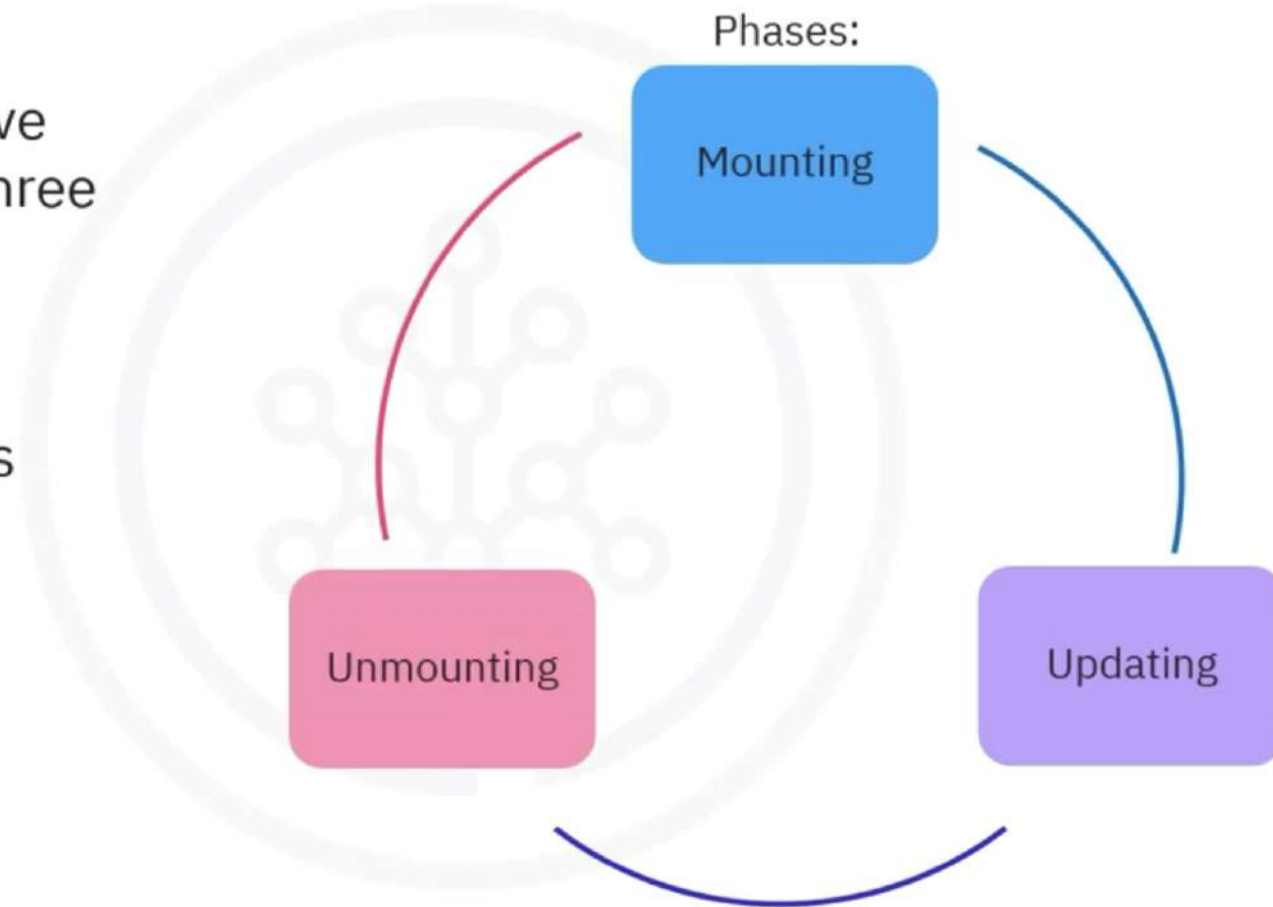


List methods used in each phase

# Lifecycle overview

Components have lifecycles with three phases

Each phase has distinct methods



# Lifecycle phase overview

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## ***Mounting***

- Instantiate the component
- Constructor with props and default state



## ***Updating***

- Component changes
- Component re-renders

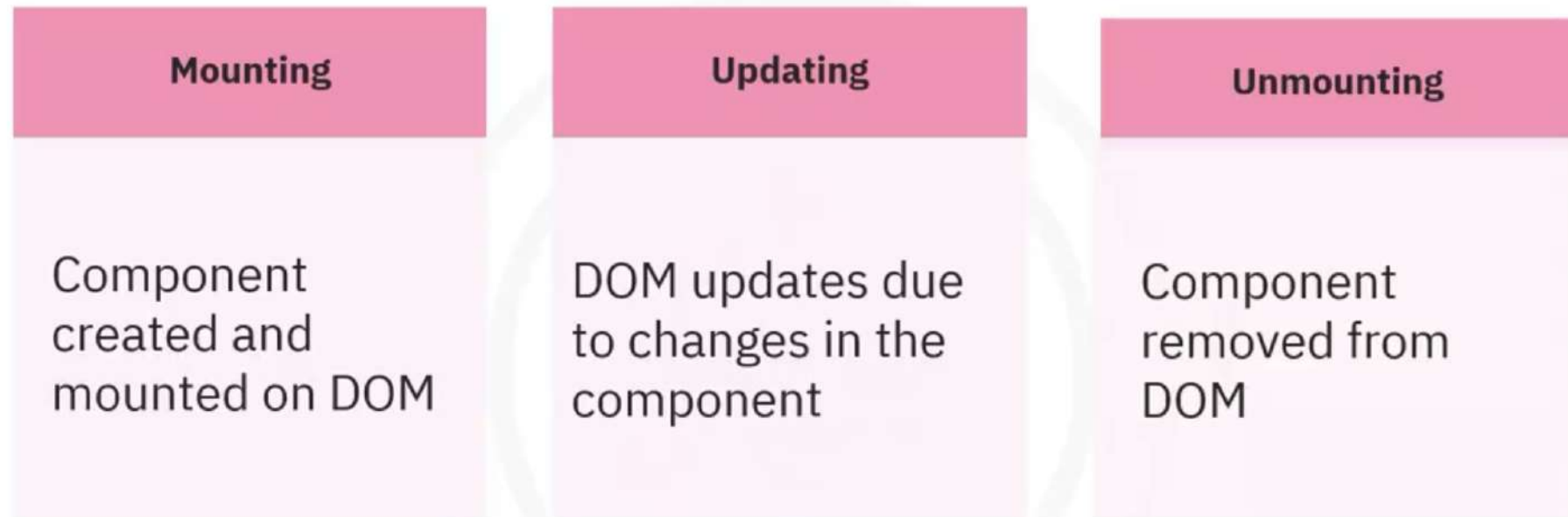


## ***Unmounting***

- Component removed from UI

# The DOM and the lifecycle

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Each phase has specific methods  
Automatically invoked  
You have access

# Mount methods



# Update methods

`getDerivedStateFromProps()`

Reflect updated props  
in the state

`getSnapshotBeforeUpdate()`

Access previous props

`componentDidUpdate()`

Create side effects

`render()`

Update UI per  
state changes



# Unmount methods

`componentWillUnmount()`  
Cleanup to prevent  
memory leaks

Cancel network requests  
Remove listeners

# Recap

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In this video, you learned that:

- A component's lifecycle refers to its relationship with the DOM
- The three phases in the lifecycle include mount, update, and unmount
- In the mount phase, the methods called include **`componentWillMount()`** and **`componentDidMount()`**
- Methods invoked during the update phase include
  - **`getDerivedStateFromProps()`**
  - **`getSnapshotBeforeUpdate()`**
  - **`componentDidUpdate()`**
- In the final unmount phase, React calls the **`componentWillUnmount()`** method
- The **`render()`** method is called in both the mount and update phases