Salesforce Flow Local Actions
Intro & Deep Dive
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What is a Local Action?
Local Actions are Flow Actions
Once installed, you’ll find them in your Action picker
What Do You Use Local Actions For?

Unlike all other Flow Actions, “Local” Actions execute javascript, so they run on the client machine.

This gives them the power to interact with the local browser environment.
Access On-Premises Data with Direct Data Queries
Enable New Integrations via Local Flow Actions

Traditional points of integration operate via the Salesforce Cloud, requiring firewall access.

Direct Data Queries add high-speed, private connectivity to on-prem and private cloud data.

Learn More
Add Browser Features to Flows

Flow Action Components tap into hardware and OS features

Display Pop-up Alert

Play Sound

Open Web Page

Use Camera

Learn More
What Do You Use Local Actions For?

This makes them ideal for:

1) Direct Data Queries to on-premises or private cloud data sources
2) Activities that integrate with the user’s computer environment, such as loading new web pages, playing sounds, and popping up notifications
Local Action Limitations

- Many local actions use Salesforce force events, a way of passing messages to the browser.
- Force Events work in normal lightning experience flows, including flows launched from Quick Actions, but will not work when run from inside Flow Builder or via a Custom Button. They will not work from Visualforce pages.
Elements of Local Actions
Add the Marker Interface to your Lightning Component

```xml
<aura:component implements="lightning:availableForFlowActions">
  <aura:attribute name="userId" type="String" required="true"/>
  <aura:attribute name="ssn" type="String"/>
</aura:component>
```

Local Actions are not yet available as Lightning Web Components.
Adding a **Invoke Method** - Synchronous

The basic synchronous approach:

2. You don’t need the callback at all! It’s now automatic

```javascript
invoke : function(component, event, helper) {
  var args = event.getParam("arguments");
  var destUrl = component.get("v.url");
  var pattern = new RegExp('^http|https):/\/[\^ "]+$');
  if (!pattern.test(destUrl)) {
    destUrl = 'http://' + destUrl;
  }

  var urlEvent = $A.get("e.force:navigateToURL");
  urlEvent.setParams({
    "url": destUrl
  });
  urlEvent.fire();
}
```
Using **Invoke With a Promise**

**Recommended**

```javascript
{{
  invoke : function(component, event, helper) {
      return new Promise(function(resolve, reject) {
        // Do something asynchronously, like get data from
        // an on-premise database

        // Complete the call and return to the flow
        if (/* request was successful */) {
            // Set output was successful */
            // Set output values for the appropriate attributes
            resolve();
        } else {
            reject(new Error("My error message"));
        }
    });
}}
```
When Using External Callouts, Whitelist Your Domains

If you’re calling out:

```javascript
});

var userId = component.get("v.userId");

xhr.open("GET", "https://e45sfxhtub.execute-api.eu-west-1.amazonaws.com/demo/ssn?userid="+userId, true);
xhr.send(null);
```