

Smart Home Simulator — Build Guide 06

Add Echo Show 5, Alexa Account Setup, and Third-Party Device Apps

TYPE	PHASE	CONTROL LAYER	USE
Tabletop Simulator Panel	Alexa + Device Apps	Echo Show 5 / Alexa App	IoT / Smart Home Training

BEFORE: Router Wi-Fi must already be configured from Guide 05. Use the Smart Home Admin SSID for admin phones/tablets and use the IoT Devices SSID for smart devices unless the instructor provides a different lab plan.

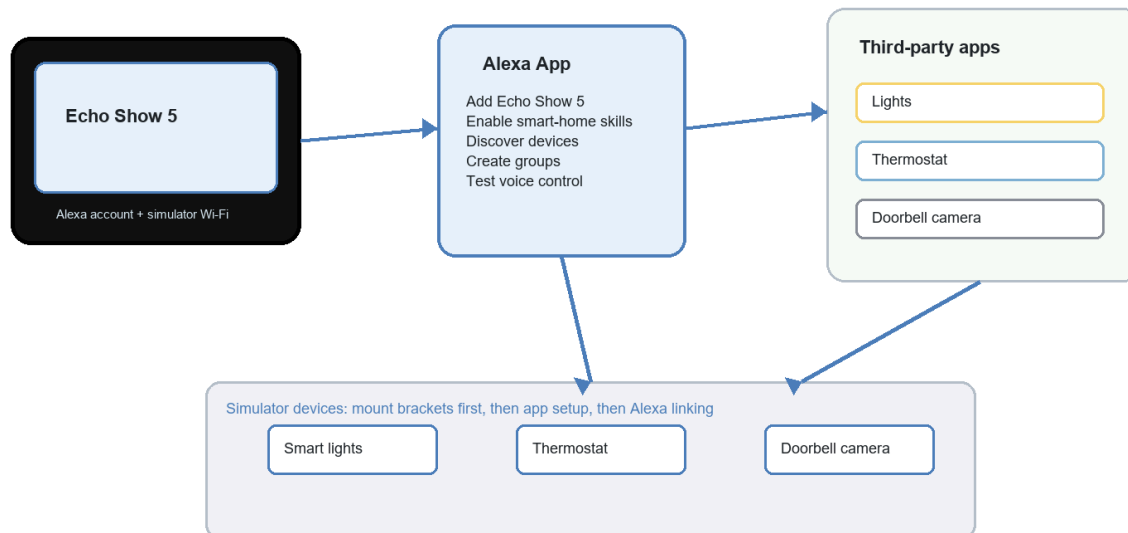
GOAL OF THIS PHASE

Add the Echo Show 5 to the simulator, complete the initial Alexa account setup, prepare the Alexa app, and get ready to install the separate third-party apps required by the lights, thermostat, doorbell camera, and other smart-home devices.

- Record Alexa account information in the worksheet before adding devices.
- Install physical brackets, bases, or plates for third-party devices before app setup.
- Each third-party device may need its own vendor app and account before it can sync to Alexa.
- Do not start automations or advanced routines until basic app and Alexa control tests pass.

SYSTEM FLOW

Alexa control layer: Echo Show 5 + third-party apps



Each third-party app must be installed, configured, and linked to Alexa before the Echo Show can reliably control that device.

Fig 1 — Echo Show 5 and Alexa app become the control layer after third-party apps link their devices to Alexa.

SET UP ECHO SHOW 5

1

Power on Echo Show 5

Place it where students can see and hear the display. Connect power and wait for the setup screen.

2

Connect to simulator Wi-Fi

Use the Smart Home Admin SSID for the Echo Show 5 unless the instructor assigns it to a different network.

3

Sign in with Alexa/Amazon account

Use the simulator Alexa account. Do not use a personal student account for the shared demo wall.

4

Confirm device appears in Alexa app

Open the Alexa app on the admin phone/tablet and confirm the Echo Show 5 appears under Devices.

5

Name and place the Echo Show

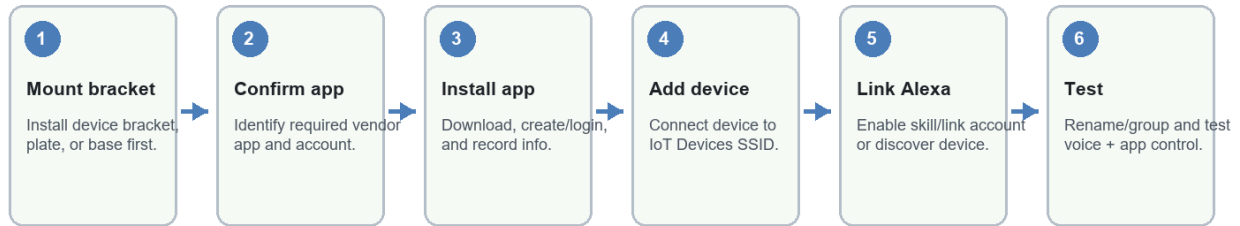
Rename it to a clear simulator name, such as Demo Wall Echo Show 5, and assign it to the simulator room/group.

ALEXA ACCOUNT WORKSHEET

FIELD	VALUE / NOTES
Alexa/Amazon account email	
Password storage location	
Recovery email/phone	
MFA method / backup location	
Echo Show 5 device name	Demo Wall Echo Show 5
Alexa room/group name	
Admin phone/tablet used	
Instructor initials/date	

THIRD-PARTY DEVICE APP WORKFLOW

Repeat this setup pattern for each third-party device



Examples: light app, thermostat app, doorbell camera app. Each app may have a different pairing mode, account login, and Alexa skill/linking step.

Do not move to the next phase until mounts are secure, apps are documented, devices appear in Alexa, and basic controls test pass.

Fig 2 — Repeat this workflow for lights, thermostat, doorbell camera, and any additional smart-home device.

1 **Install mounting bracket first**
Install the device bracket, base plate, wall plate, or camera mount before app pairing. Confirm it is secure and positioned correctly.

2 **Confirm required app**
Check the device label, QR code, quick-start card, or manufacturer instructions to identify the required app.

3 **Download and configure app**
Install the app on the admin phone/tablet. Create or log into the third-party account and record the account information in the worksheet.

4 **Add the device in its app**
Follow the vendor pairing steps. Connect Wi-Fi smart devices to the IoT Devices SSID unless the instructor specifies otherwise.

5 **Update device firmware if prompted**
Run firmware updates inside the vendor app before linking to Alexa when the app recommends it.

6 **Link to Alexa**
In the Alexa app, enable the matching skill or account link if required, sign into the third-party account, and discover devices.

7

Rename, group, and test

Use clear names like Demo Light 1 or Demo Doorbell. Add the device to the simulator room/group and test app control plus Alexa voice control.

THIRD-PARTY APP ACCOUNT WORKSHEET

DEVICE	APP NEEDED	ACCOUNT EMAIL	PASSWORD LOCATION	ALEXA LINKED?	NOTES
Lights				<input type="checkbox"/> Yes	
Thermostat				<input type="checkbox"/> Yes	
Doorbell camera				<input type="checkbox"/> Yes	
Other				<input type="checkbox"/> Yes	

DEVICE SETUP TRACKER

DEVICE	MOUNT INSTALLED	APP CONFIGURED	ALEXA DISCOVERED	TEST RESULT
Light 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Light 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Thermostat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Doorbell camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

FINAL ALEXA READINESS CHECKLIST

CHECK	PASS CRITERIA	STATUS
Echo Show 5 online	Echo Show is powered, named, and visible in Alexa app.	<input type="checkbox"/> Pass
Alexa account recorded	Account email and password storage location are documented.	<input type="checkbox"/> Pass
Third-party apps listed	Required apps and account info locations are documented.	<input type="checkbox"/> Pass
Mounts installed	Device brackets/bases/plates are secure before app pairing.	<input type="checkbox"/> Pass
Devices discovered	Lights, thermostat, and doorbell camera appear in Alexa when available.	<input type="checkbox"/> Pass
Voice test	Alexa can control or display each synced device as expected.	<input type="checkbox"/> Pass

Ready for next phase	Basic control works before routines/scenes/security settings are added.	[] Pass
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NEXT PHASE — BUILD THE HVAC SIMULATOR PROJECT BOX

<p>READY FOR GUIDE 07</p> <ul style="list-style-type: none">HVAC project boxColored 24V LEDs24V AC power supplySmart thermostat wiringBoard mounting	<p>DO NOT SKIP</p> <ul style="list-style-type: none">Echo Show onlineApps documentedThird-party accounts linkedDevices discoveredBasic control tests passed
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