NEXUS

Tablet Kiosk Setup Guide

ðŸ"□ 332 Bridgegate Dr, Cary, NC 27519

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Dashboard URL: https://witty-cliff-0461f7f10.3.azurestaticapps.net

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What is Kiosk Mode?

Kiosk mode locks your tablet to display only the NEXUS dashboard. It prevents accidental exits, hides system notifications, keeps the screen always on, and

automatically restarts the app if it crashes. This is perfect for wall-mounted smart home control panels.

1. Introduction

Welcome to your NEXUS Home Control Center! This guide will walk you through setting up tablets as dedicated wall-mounted control panels throughout your home at 332 Bridgegate Dr.

Your Dashboard URL

This is the address you'll enter on each tablet:

```
https://witty-cliff-0461f7f10.3.azurestaticapps.net
```

> ðŸ'¡ **Tip:** Bookmark this URL or save it as a note. You'll need it for each tablet you set up.

What Each Tablet Will Do

â˜ Display the NEXUS dashboard 24/7

â˜ Show real-time Alexa activity from all Echo devices

â˜ Control lights, thermostat, and scenes with touch

â˜ Display weather, time, and security status

â˜ Quick-launch apps like Spotify, Netflix, Ring

â˜ Wake on motion (with compatible apps)

Backend Services

Your deployment includes these Azure services that power the dashboard:

Service	URL
SignalR (Real-time)	`https://nexus-alexa-bridge-45799.azurewebsites.net/api/negotiate`
Broadcast Test	`https://nexus-alexa-bridge-45799.azurewebsites.net/api/broadcast`

2. Recommended Hardware

Tablets

Location	Recommended Tablet	Price	Why
Kitchen	Amazon Fire HD 10	~$150	Large screen, built-in Alexa, Show Mode
Living Room	Amazon Fire HD 10	~$150	Consistent experience across home
Hallway	Amazon Fire HD 8	~$100	Compact, budget-friendly
Bedroom	Echo Show 8	~$130	Native Alexa, smaller footprint
Office	Samsung Galaxy Tab A8	~$180	Full Android, Play Store access

Mounting Solutions

Type	Product	Price
Magnetic Mount	MagicMount (removable)	~$30
Flush Wall Mount	VidaMount or TabMount	~$50-80

| With Charging | PoE Texas Tablet Mount | ~$150 |

Power Solutions

Option	Pros	Cons
USB Wall Outlet	Clean install, no visible cables	Requires electrical work
Cable Raceway	No electrical work needed	Visible (but paintable)
PoE (Power over Ethernet)	Power + network in one cable	Most expensive, requires PoE switch

ðŸ'¡ **Budget Estimate:** 3 Fire tablets + mounts + cables â‰ˆ $500-600 total

3. Amazon Fire Tablet Setup

ðŸ"¥ **Amazon Fire HD 8 / HD 10**
Best budget option with built-in Alexa

Option A: Show Mode (Simplest)

Turns your Fire tablet into an Echo Show-like device.

1 **Enable Show Mode**

Settings â†' Device Options â†' Show Mode â†' Toggle ON

2 **Set to Auto-Enter Show Mode**

Enable "Automatically enter Show Mode when docked"

3 **Connect to Charging Dock**

When plugged in, it will show the Alexa home screen

> âš ï¸ **Limitation:** Show Mode displays Amazon's interface, not your custom NEXUS dashboard. For full NEXUS experience, use Option B.

Option B: Fully Kiosk Browser (Recommended)

Locks the tablet to your NEXUS dashboard with advanced features.

Install Fully Kiosk Browser

Open Amazon Appstore â†' Search "Fully Kiosk Browser" â†' Install

2 **Open Fully Kiosk Browser**

Launch the app from your home screen

3 **Enter Dashboard URL**

Type: **https://witty-cliff-0461f7f10.3.azurestaticapps.net**

4 **Access Settings**

Swipe from left edge or triple-tap top-left corner

5 **Configure Kiosk Mode**

See "Fully Kiosk Configuration" section for detailed settings

6 **Enable Kiosk Mode**

Settings â†' Kiosk Mode â†' Enable Kiosk Mode â†' ON

License: Fully Kiosk Browser costs ~$7 per device for full features. Free version works but shows occasional prompts.

3. Amazon Fire Tablet Setup (Continued)

Fire Tablet Quick Settings

Apply these settings for optimal kiosk performance:

1 **Disable Lock Screen**

Settings â†' Security & Privacy â†' Lock Screen Password â†' OFF

2 **Disable Auto-Sleep**

Settings â†' Display â†' Screen Timeout â†' Never (when plugged in)

3 **Enable Stay Awake**

Settings â†' Device Options â†' Developer Options â†' Stay Awake â†' ON

4 **Disable Notifications**

Settings â†' Notifications â†' Turn off for all non-essential apps

5 **Set Brightness**

Settings â†' Display â†' Adaptive Brightness OFF, set to 70-80%

6 **Disable Alexa Hands-Free**

Settings â†' Alexa â†' Hands-Free Mode â†' OFF (prevents accidental triggers)

> 🛡 **Enable Developer Options:** Settings â†' Device Options â†' Tap "Serial Number" 7 times

Fire Tablet Specific Issues

Issue	Solution
Lockscreen ads appearing	Pay $15 to remove ads, or contact Amazon support
Software updates interrupting	Settings â†' Device Options â†' System Updates â†' Turn off auto-updates
Amazon apps opening	Use Fully Kiosk to block other apps completely
Screen burn-in concerns	Enable screensaver in Fully Kiosk with motion wake

4. Android Tablet Setup

ðŸ¤— Samsung / Lenovo / Generic Android

Full Android experience with Play Store

Option A: Screen Pinning (Free, Built-in)

Basic lockdown using Android's built-in feature.

1 **Enable Screen Pinning**

Settings â†' Security â†' Advanced â†' Screen Pinning â†' ON

2 **Open Chrome/Browser**

Navigate to: **https://witty-cliff-0461f7f10.3.azurestaticapps.net**

3 **Add to Home Screen**

Chrome menu (â‹®) â†' "Add to Home screen" â†' Name it "NEXUS"

4 **Open Recent Apps**

Tap the square navigation button

5 **Pin the App**

Tap the app icon at top of card â†' "Pin this app"

> âš ï¸ **Limitation:** Users can unpin by holding Back + Recent buttons. For true lockdown, use Option B.

Option B: Fully Kiosk Browser (Recommended)

1 **Install from Play Store**

Search "Fully Kiosk Browser" â†' Install

2 **Grant Permissions**

Allow all requested permissions for full functionality

3 **Set Dashboard URL**

Enter: **https://witty-cliff-0461f7f10.3.azurestaticapps.net**

4 **Configure & Lock**

See Fully Kiosk Configuration section

Samsung Knox (Enterprise Option)

For Samsung tablets, Knox provides enterprise-grade lockdown:

â˜ Remote device management

â˜ App whitelisting/blacklisting

â˜ Over-the-air configuration

☁ Requires Knox license (~$5/device/year)

4. Android Tablet Setup (Continued)

Essential Android Settings

1 **Disable Lock Screen**

Settings â†' Security â†' Screen Lock â†' None or Swipe

2 **Keep Screen On (Developer Option)**

Settings â†' Developer Options â†' Stay Awake â†' ON

3 **Disable Adaptive Brightness**

Settings â†' Display â†' Adaptive Brightness â†' OFF

4 **Set Display Timeout**

Settings â†' Display â†' Screen Timeout â†' 30 minutes (Fully Kiosk overrides this)

5 **Disable Notifications**

Settings â†' Notifications â†' For each app â†' OFF

6 **Disable Software Updates**

Settings â†' Software Update â†' Auto Download â†' OFF

ðŸ'¡ **Enable Developer Options:** Settings â†' About Tablet â†' Tap "Build

Number" 7 times

Recommended Android Tablets

Model	Screen	Price	Notes
Samsung Galaxy Tab A8	10.5"	~$180	Best value, good performance
Samsung Galaxy Tab S6 Lite	10.4"	~$250	Better display, S Pen included
Lenovo Tab M10 Plus	10.3"	~$150	Budget option, decent specs
Google Pixel Tablet	11"	~$400	Premium, includes charging dock

5. iPad Setup

ðŸ□Ž **Apple iPad**
Premium option with excellent display

Option A: Guided Access (Free, Built-in)

Apple's built-in kiosk mode, simple and effective.

1 **Enable Guided Access**

Settings â†' Accessibility â†' Guided Access â†' Toggle ON

2 **Set a Passcode**

Tap "Passcode Settings" â†' "Set Guided Access Passcode"

3 **Enable Accessibility Shortcut**

This allows triple-click to start/stop Guided Access

4 **Open Safari**

Navigate to: **https://witty-cliff-0461f7f10.3.azurestaticapps.net**

5 **Add to Home Screen**

Tap Share button â†' "Add to Home Screen" â†' Name it "NEXUS"

Open NEXUS from Home Screen

This opens it as a full-screen web app

7 **Start Guided Access**

Triple-click Side button (or Home button) â†' Tap "Start"

To Exit: Triple-click Side button â†' Enter passcode â†' Tap "End"

Guided Access Options

When starting Guided Access, you can configure:

â˜ **Disable Touch:** Prevent all touch input (display only)

â˜ **Disable Motion:** Lock screen orientation

â˜ **Disable Keyboards:** Prevent keyboard from appearing

â˜ **Time Limit:** Auto-exit after set time (not for kiosk use)

â˜ **Circle Areas:** Disable touch in specific screen regions

5. iPad Setup (Continued)

Essential iPad Settings

1 **Disable Auto-Lock**

Settings â†' Display & Brightness â†' Auto-Lock â†' Never

2 **Disable Passcode (Optional)**

Settings â†' Face ID & Passcode â†' Turn Passcode Off

3 **Enable Do Not Disturb**

Settings â†' Focus â†' Do Not Disturb â†' Schedule always

4 **Disable Control Center Access**

Settings â†' Face ID & Passcode â†' Disable "Control Center" when locked

5 **Disable Notification Center**

Settings â†' Face ID & Passcode â†' Disable "Notification Center"

6 **Set Brightness**

Settings â†' Display â†' Auto-Brightness OFF, set to 70%

Option B: Apple Configurator (Multiple iPads)

For managing multiple iPads, use Apple Configurator 2 (Mac required):

1 **Download Apple Configurator 2**

Free from Mac App Store

2 **Create Configuration Profile**

File â†' New Profile â†' Add restrictions and web clip

3 **Add Web Clip**

Adds NEXUS as a home screen app

4 **Enable Single App Mode**

Locks iPad to the NEXUS web app

5 **Deploy to iPads**

Connect iPad via USB â†' Apply profile

Recommended iPads

Model	Screen	Price	Notes
iPad 10th Gen	10.9"	~$350	Best value iPad
iPad Mini	8.3"	~$400	Compact, premium
iPad Air	10.9"	~$550	Premium display and performance

6. Fully Kiosk Browser Configuration

Fully Kiosk Browser is the recommended solution for Android and Fire tablets. Here are the optimal settings for your NEXUS dashboard:

Initial Setup

```
Start URL: https://witty-cliff-0461f7f10.3.azurestaticapps.net
```

Web Content Settings

Setting	Value	Why
Enable JavaScript	ON	Required for dashboard
Enable Cookies	ON	Save preferences
Autoplay Videos	ON	For camera feeds
Enable Geolocation	ON	Weather accuracy
Web Zoom	100%	Optimal sizing

Kiosk Mode Settings

Setting	Value	Why
Enable Kiosk Mode	ON	Locks to dashboard
Kiosk Exit Gesture	Long press back	Admin access
Kiosk Exit PIN	Your PIN	Prevent unauthorized exit
Lock Safe Mode	ON	Prevent safe mode reboot
Disable Status Bar	ON	Hide notifications
Disable Navigation Bar	ON	Hide nav buttons

Screen & Power Settings

Setting	Value	Why
Keep Screen On	ON	24/7 display
Screen Brightness	70-80%	Visible but not blinding
Screensaver Enabled	ON	Prevent burn-in
Screensaver Timeout	5 minutes	After no touch
Screensaver Type	Screen Off or Clock	Dim when idle

6. Fully Kiosk Browser Configuration (Continued)

Motion Detection Settings

Wake the screen when someone approaches:

Setting	Value	Why
Enable Motion Detection	ON	Camera-based wake
Motion Sensitivity	Medium (50%)	Balance sensitivity
Turn Screen On on Motion	ON	Wake on approach
Exit Screensaver on Motion	ON	Show dashboard

> ðŸ'¡ **Pro Tip:** Motion detection uses the front camera. Position the tablet where people naturally walk by for best results.

Device Management Settings

Setting	Value	Why
Restart on Crash	ON	Auto-recovery

Restart on Network Error	ON	Handle WiFi issues
Daily Restart	4:00 AM	Clear memory daily
Load Start URL on Network Reconnect	ON	Resume after outage

Remote Administration

Manage tablets from your computer:

1 **Enable Remote Admin**

Settings â†' Remote Administration â†' Enable

2 **Set Admin Password**

Create a strong password for web access

3 **Note the IP Address**

Shown in Remote Admin settings (e.g., 192.168.1.100)

4 **Access from Browser**

http://[tablet-ip]:2323 from any device on same network

Remote Admin Features: View screenshots, reload page, restart browser, change URL, view device info, and moreâ€"all from your computer.

Licensing

Fully Kiosk Browser offers:

â˜ **Free Version:** Full features with occasional nag screens

â˜ **Single License:** $7.90 per device (one-time)

â˜ **Volume License:** Discounts for 5+ devices

7. Mounting & Power Solutions

Wall Mounting Options

Option 1: Magnetic Mount (Removable)

Best for: Renters or frequently moved tablets

â˜ Attach metal plate to tablet back (or case)

â˜ Mount magnetic base on wall with screws or adhesive

â˜ Tablet easily snaps on/off

â˜ Products: MagicMount, Scosche, iOttie

Cost: **$20-40**

Option 2: Flush Wall Mount

Best for: Permanent, clean installation

â˜ Tablet sits flush against wall in frame

â˜ Cable routed through wall

â˜ Professional appearance

☐ Products: VidaMount, TabMount, Heckler Design

Cost: **$50-150**

Option 3: PoE Powered Mount

Best for: New construction or serious installations

☐ Single Ethernet cable provides power + network

☐ No WiFi needed, more reliable

☐ Requires PoE switch or injector

☐ Products: PoE Texas, Lavu, ArmorActive

Cost: **$150-300** + PoE switch

Power Cable Management

Method	Difficulty	Appearance	Cost
In-wall USB outlet	Medium (electrical)	☆☆☆☆☆	$25-50
Paintable cable raceway	Easy	☆☆☆☆†	$10-20
Behind furniture	Easy	☆☆☆††	$0

| Cable inside wall | Hard | â˜…â˜…â˜…â˜… â˜… | $20+ |

> ⚠️ **Electrical Safety:** If installing USB outlets, hire a licensed electrician or ensure you're comfortable with electrical work and local codes.

8. Troubleshooting

Common Issues & Solutions

Problem	Solution
Dashboard not loading	1. Check WiFi connection 2. Try loading URL in regular browser 3. Check Azure service status 4. Restart tablet
Alexa events not appearing	1. Check "Connected" status in header 2. Test broadcast endpoint (see below) 3. Verify SignalR service is running
Screen keeps turning off	1. Enable "Stay Awake" in developer options 2. Check Fully Kiosk "Keep Screen On" setting 3. Ensure tablet is plugged in
Exited kiosk mode accidentally	1. Reopen Fully Kiosk Browser 2. It should auto-enter kiosk mode 3. If not, go to Settings â†' Enable Kiosk Mode
Tablet overheating	1. Reduce screen brightness 2. Enable screensaver for idle times 3. Ensure ventilation around mount 4. Consider tablet with better thermals
Touch not responding	1. Clean screen 2. Check if touch disabled in Guided Access

3. Restart tablet

4. Check for screen protector issues

Test Broadcast Command

Send a test event to verify real-time updates:

```
# PowerShell Test Command $body = @{ device = "Test Device" utterance =
"Alexa, this is a test" response = "Test successful!" type = "general" } |
ConvertTo-Json Invoke-RestMethod -Uri "https://nexus-alexa-bridge-
45799.azurewebsites.net/api/broadcast" -Method Post -Body $body -
ContentType "application/json"
```

If successful, you should see the test event appear on all connected dashboards.

9. Quick Reference Card

Dashboard URL

```
https://witty-cliff-0461f7f10.3.azurestatica
pps.net
```

Important URLs

Service	URL
Dashboard	https://witty-cliff-0461f7f10.3.azurestaticapps.net
Backend API	https://nexus-alexa-bridge-45799.azurewebsites.net
Test Broadcast	https://nexus-alexa-bridge-45799.azurewebsites.net/api/broadcast

Fully Kiosk Quick Access

Action	Gesture

Open Settings	Swipe from left edge or triple-tap top-left
Exit Kiosk Mode	Long press Back button â†' Enter PIN
Reload Page	Pull down from top

iPad Guided Access

Action	Gesture
Start Guided Access	Triple-click Side button â†' Start
Exit Guided Access	Triple-click Side button â†' Enter passcode â†' End

Support Contacts

â˜ Azure Portal: portal.azure.com

â˜ Fully Kiosk Support: fully-kiosk.com/support

â˜ Apple Support: support.apple.com

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