Introduction

Why smart home devices?

Why Amazon Echo and Google Home?
Amazon Echo

- Wake word
- Data processing
- Direct Third party interaction
- No local caching
Google Home

Wake Words

Data Transfer

Data Handling

No local storage
What can the Google Home do?

- Allows users to control music and media
- Control other smart devices in the home
- Control schedule, weather, and traffic updates
What can the Google Home do? (cont.)

Make phone calls, set reminders, set alarm

Send information from the device to phone

Play trivia games, get answers to facts, sports, and dictionary
Google Home Risks

Software Bugs

- Detrimental to maintaining privacy

No way to be confident that voice data will never be leaked

Attacks can record all audio without users knowledge

- BlueBorne Bluetooth Attack
How data is shared with third party apps

Data is shared with third party applications

- Google requires permissions the first time a third party app is used

No Voice recordings are shared

Allows for many more functions to be completed
Echo vs Home

Both wake word

Both Mute button

Echo share voice record with third party developer

Third party application interaction
Risks & Privacy

Eavesdropping

Weak Law Protection

Use against us

Collect Data in home environment

Unknown Data processing
Solutions

Update with new law and protection

Unplug or purchase weaker device

Ask generalize questions and with privacy consent