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## GLASSDOME PROJECT BRIEF

### Autonomous Cyber Range Platform for Fortune 50 Enterprises

**Document Version:** 1.0

**Date:** November 20, 2024

**VP Presentation:** December 8, 2024 (18 days)

**Classification:** Internal - Team Distribution

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## Executive Summary

### What is Glassdome?

Glassdome is an on-premise, AI-powered cyber range platform that autonomously deploys vulnerable training environments for Fortune 50 companies and global financial institutions.

Unlike cloud-based SaaS platforms (HackTheBox, TryHackMe), Glassdome runs completely **on-premise or air-gapped**, making it suitable for classified networks, regulated financial environments, and data-sovereign enterprises.

### Key Innovation

**AI Research Agent + Autonomous Deployment = Same-Day CVE Training Labs**

When a new CVE is published, Glassdome's AI Research Agent:

1. Analyzes the vulnerability (2-4 hours)
2. Generates deployment artifacts automatically
3. Creates complete training environment
4. Deploys to on-premise infrastructure

**Result:** 2 hours to deploy vs. 2-4 weeks for competitors (92% faster)

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## The Opportunity

### Market Position

Feature	Traditional Vendors	Glassdome
<b>Hosting</b>	Cloud SaaS	On-premise/air-gapped
<b>Cost</b>	\$500K-\$2M/year	\$50K-\$250K/year (90% savings)
<b>CVE Speed</b>	2-4 weeks	2 hours
<b>Compliance Docs</b>	Extra \$500K	Included
<b>Data Sovereignty</b>	Vendor's cloud	Your infrastructure

### Target Customers

1. **Fortune 50 Companies** - \$250K site license
2. **Global Financial Institutions** - Regulatory compliance (PCI-DSS, SOX)
3. **Government/Defense** - FedRAMP, classified networks
4. **Healthcare Systems** - HIPAA compliance

**Total Addressable Market:** \$115M (Fortune 500 alone)

### Competitive Landscape

**Direct competitors:** - SimSpace: \$500K-\$2M/year - Range Force: \$300K-\$1M/year - PlexTrac: \$400K-\$1.5M/year

**Our advantage:** 90% cost reduction + only platform with air-gapped AI research

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## The Problem

### Current State: Manual & Slow

**Fortune 50 companies take 2-4 weeks to create training labs for new CVEs:**

1. Security team identifies critical vulnerability
2. Request lab environment from IT
3. IT manually builds VMs, configures networks
4. Security engineers install vulnerable software
5. Test and validate exploitability
6. Create documentation and answer keys
7. Deploy to training environment

**Cost:** 40-60 hours of analyst time + \$500K/year in vendor fees or infrastructure

**Risk:** By the time training is ready, exploits are in the wild

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## Real-World Scenario

**Log4Shell (CVE-2021-44228) - December 2021**

Company Type	Response Time	Result
With Glassdome	2 hours	Training lab ready same day
Traditional	2-3 weeks	Vulnerable during critical period
No platform	1-2 months	Permanent security gap

**Impact:** Companies with rapid training capability reduced breach risk by 73%

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## The Solution

Glassdome Architecture

Complete Agent Pipeline

CVE Published

↓

RESEARCH AGENT (AI-Powered)

- Analyzes CVE from NVD
- Finds exploit code (GitHub, Exploit-DB)
- Generates deployment procedure
- Creates Terraform/Ansible/Packages
- Time: 2-4 hours

↓

ORCHESTRATOR

- Deploys 7-10 VMs across 4 networks
- Creates isolated network topology
- Time: 5 minutes

↓

↓

UBUNTU AGENT

Deploys VMs

REAPER AGENT

Injects Vuln

10 seconds            30 seconds

↓

#### OVERSEER AGENT

- Monitors infrastructure
- Detects issues
- Generates reports

## Core Components

1. **Research Agent (AI)** - Autonomous CVE analysis
  2. **Orchestrator** - Multi-VM network deployment
  3. **OS Installer Agents** - Ubuntu, Debian, CentOS, Windows
  4. **Reaper Agent** - Vulnerability injection
  5. **Overseer Agent** - Infrastructure monitoring
  6. **React Dashboard** - Professional control interface
- 

## Technology Stack

### Backend

- **Python 3.12** - Core language
- **FastAPI** - API framework
- **PostgreSQL** - Database
- **Redis** - Message queue
- **Celery** - Task queue
- **Ansible** - Configuration management
- **Terraform** - Infrastructure as code

### Frontend

- **React 18 + TypeScript** - UI framework
- **Vite** - Build tool
- **Material-UI** - Component library
- **React Flow** - Network topology visualization
- **Recharts** - Graphs and metrics
- **WebSockets** - Real-time updates

### Infrastructure

- **Proxmox** - Primary hypervisor (on-premise)
- **Docker** - Containerization
- **HashiCorp Vault** - Secrets management
- **Local LLM (Llama 3)** - Air-gapped AI

## AI/LLM

- OpenAI GPT-4 - CVE analysis (online)
  - Anthropic Claude - Alternative LLM
  - Llama 3 8B/70B - Air-gapped inference
  - Perplexity - Exploit research
- 

## Key Features

### 1. Multi-VM Scenario Deployment

Deploy complete network topologies with one command:

```
# Example: Enterprise Web Application Scenario
name: "Enterprise Web Application"
vms: 9
networks: 4
duration: 2-3 hours

topology:
  - Attack Network (192.168.100.0/24)
    • Glassdome Console (attack workstation)

  - DMZ (10.0.1.0/24)
    • Web Server (SQL injection, XSS)
    • DNS Server (zone transfer vuln)

  - Internal (10.0.2.0/24)
    • App Server (Java deserialization)
    • Database Server (weak auth)
    • File Server (SMB EternalBlue)

  - Management (10.0.3.0/24)
    • Domain Controller (Kerberoasting)
    • Admin Workstation (weak passwords)

flags: 3 hidden CTF flags
answer_key: Complete exploitation guide
deployment_time: < 5 minutes
```

### 2. Vulnerability Packages

Fast, reliable vulnerability deployment via Debian packages:

```
# Install vulnerabilities like any software
apt install glassdome-vuln-sql-injection-dvwa
apt install glassdome-vuln-smb- eternalblue
apt install glassdome-vuln-weak-sudo
```

*# Result: 5-10 second installation vs. 2-3 minutes for Ansible*

### 3. Custom Security Console

“Glassdome Security Console” - Branded, lightweight attack platform:

- Ubuntu 22.04 LTS base
- Essential security tools only (nmap, metasploit, sqlmap, wireshark)
- 5-8GB vs. Kali’s 20-25GB
- Glassdome CLI pre-installed
- Faster deployment, smaller storage footprint

### 4. Air-Gapped Operation

**Complete offline bundle (50-100GB):** - All Docker images - Python packages (500+ dependencies) - System packages (Ansible, Terraform, etc.) - AI models (Llama 3 8B: 5GB or 70B: 40GB) - Vulnerability database (NVD snapshot) - OS templates (Ubuntu, Debian, CentOS) - Complete documentation

**Zero external dependencies** - No internet, no cloud APIs, no CDN calls

### 5. Professional Control Dashboard

**React-based web interface with:** - Scenario library (browse and deploy pre-built labs) - Scenario builder (drag-and-drop network designer) - Real-time monitoring (live VM status via WebSocket) - Network topology visualization (React Flow) - Infrastructure health dashboard - Research Agent UI (CVE analysis interface) - Compliance dashboard (audit logs, reports) - User management (RBAC)

### 6. Enterprise Compliance

**Included documentation saves 6-12 months of work:** - System Security Plan (SSP) - FedRAMP template - Security Architecture Diagrams - Data Flow Diagrams - Access Control Matrix (RBAC) - Audit Logging Documentation - Continuous Monitoring Plan - Incident Response Plan - Business Continuity Plan

**Value:** \$500K-\$2M in consulting fees avoided

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## Deployment Options

### Option 1: OVA/OVF Appliance RECOMMENDED

Single file, plug-and-play deployment:

Glassdome-Enterprise-v1.0.ova (100GB)  
Management VM (all services containerized)  
Pre-loaded AI models  
Vulnerability database  
First-boot configuration wizard

Deployment: Import OVA → Boot → Configure → Ready (< 2 hours)

## Option 2: Kubernetes Helm Chart

For existing K8s infrastructure:

```
helm install glassdome ./glassdome-enterprise \
--namespace glassdome \
--set airgapped=true \
--set compliance.mode=fedramp

# HA deployment with 3 replicas
```

## Option 3: Docker Compose

For development/small teams:

```
docker-compose -f docker-compose.enterprise.yml up -d

# Single-server deployment
```

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## Implementation Plan

**Timeline: 18 Days (Nov 20 - Dec 8)**

**Week 1: Core Platform (Nov 20-27)**

Day	Priority	Deliverable
<b>Wed 11/20</b>	Multi-network	4 VLANs in Proxmox
<b>Thu 11/21</b>	Multi-VM deploy	Deploy 9 VMs at once
<b>Fri 11/22</b>	Scenario format	YAML parsing
<b>Sat 11/23</b>	Orchestration	End-to-end deployment
<b>Sun 11/24</b>	React dashboard	Initialize + layout
<b>Mon 11/25</b>	React dashboard	Scenario library
<b>Tue 11/26</b>	React dashboard	Live monitoring

**Week 1 Goal:** Deploy 9-VM scenario with 4 networks via web UI

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**Week 2: Enterprise Features (Nov 27 - Dec 4)**

Day	Priority	Deliverable
<b>Wed 11/27</b>	Local LLM	Llama 3 setup
<b>Thu 11/28</b>	<b>Thanksgiving</b>	(Optional work)
<b>Fri 11/29</b>	Offline bundle	Package dependencies
<b>Sat 11/30</b>	Vuln packages	5 .deb packages
<b>Sun 12/1</b>	Console VM	Custom Ubuntu template

Day	Priority	Deliverable
<b>Mon 12/2</b>	OVA creation	Package as appliance
<b>Tue 12/3</b>	Dashboard polish	UI/UX refinements

**Week 2 Goal:** Air-gapped ready + professional UI

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### Week 3: Demo Prep (Dec 4-8)

Day	Priority	Deliverable
<b>Wed 12/4</b>	Demo scenario	Enterprise web app lab
<b>Thu 12/5</b>	Compliance docs	SSP, diagrams
<b>Fri 12/6</b>	Polish	Bug fixes, edge cases
<b>Sat 12/7</b>	Rehearsal	Practice demo 5+ times
<b>Sun 12/8</b>	<b>VP DEMO</b>	Showtime!

**Week 3 Goal:** Flawless demo + documentation

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## Success Metrics for Demo

### Must Show (Critical)

1. Deploy 9-VM scenario in < 5 minutes
2. Air-gapped operation (no internet during demo)
3. Research Agent analyzes CVE offline (local LLM)
4. Professional web UI (scenario deployment)
5. Real-time monitoring (live VM status)
6. Network topology visualization

### Should Show (Important)

7. Vulnerability packages install in seconds
8. Custom Glassdome Console
9. Compliance documentation (show SSP PDF)
10. Multi-network isolation (ping tests)

### Nice to Have (If Time)

11. Audit logs and reporting
  12. User management (RBAC)
  13. Flag capture simulation
-

# Team Roles & Responsibilities

## What We Need

### 1. Backend Development (2 people)

**Skills:** Python, FastAPI, async programming, Docker

**Responsibilities:** - Multi-VM orchestration engine - Scenario YAML parser and validator - API endpoints for dashboard - WebSocket implementation (real-time updates) - Vulnerability package creator - Local LLM integration

**Time commitment:** Full-time (160 hours over 18 days)

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### 2. Frontend Development (1-2 people)

**Skills:** React, TypeScript, REST APIs, WebSocket

**Responsibilities:** - React dashboard (9 views) - Scenario library with deploy buttons - Real-time monitoring interface - Network topology viewer (React Flow) - Connect to backend APIs - Responsive design

**Time commitment:** Full-time (160 hours over 18 days)

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### 3. Infrastructure/DevOps (1 person)

**Skills:** Proxmox, networking, Linux, Ansible

**Responsibilities:** - Proxmox multi-network setup (4 VLANs) - VM template creation and management - Offline bundle packaging - OVA/OVF appliance creation - Deployment testing

**Time commitment:** Full-time (160 hours over 18 days)

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### 4. Security/Compliance (1 person)

**Skills:** Security frameworks, compliance, documentation

**Responsibilities:** - Vulnerability package testing - Compliance documentation (SSP, diagrams) - Security architecture diagrams - Answer key generation - Demo scenario design

**Time commitment:** Part-time (80 hours over 18 days)

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### 5. AI/Research (1 person)

**Skills:** Python, LLMs, API integration

**Responsibilities:** - Local LLM setup (Llama 3) - Research Agent refinement - CVE analysis testing - Exploit research automation

**Time commitment:** Part-time (80 hours over 18 days)

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## 6. Project Lead/PM

**Skills:** Project management, demos, presentations

**Responsibilities:** - Daily standups - Blocker resolution - Demo script creation - Presentation preparation - VP communication

**Time commitment:** Part-time (40 hours over 18 days)

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## Total Effort Estimate

Role	People	Hours	Total Hours
Backend Dev	2	160	320
Frontend Dev	1-2	160	160-320
Infrastructure	1	160	160
Security/Compliance	1	80	80
AI/Research	1	80	80
Project Lead	1	40	40
<b>TOTAL</b>	<b>6-7</b>	-	<b>840-1000 hours</b>

With 6-7 people over 18 days: **FEASIBLE**

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## Available Resources

### Infrastructure

#### Proxmox Environment

- **Host:** 192.168.3.2
- **Node:** pve01
- **User:** apex@pve (Administrator)
- **Status:** Connected and working
- **Tested:** VM deployment successful (VM ID 100)

### Templates

- Ubuntu 22.04 cloud-init template (automated creation working)
  - Additional templates can be created as needed
-

## API Keys & Credentials

### AI/LLM Providers (All configured in `~/.bashrc`)

1. **OpenAI** - GPT-4 for CVE analysis
2. **Anthropic** - Claude 3 for complex analysis
3. **X.AI** - Grok (optional)
4. **Perplexity** - Research and information gathering

### Search & Data APIs

5. **Google Custom Search** - Exploit research
6. **RapidAPI** - Various API integrations

### Multi-Provider LLM Strategy

**Online (for development):** - Primary: GPT-4 Turbo (\$0.01/1K tokens) - Fallback: Claude 3 Sonnet (\$0.003/1K tokens) - Research: Perplexity (\$0.005/1K tokens)

**Offline (for air-gapped):** - Llama 3 8B (5GB, fast, good quality) - Llama 3 70B (40GB, slow, best quality)

**Cost savings:** \$0 per month for air-gapped customers vs. \$500-1000/month for API calls

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## Technical Foundation

### Current Implementation Status

**Working:** - Project structure and packaging - FastAPI backend foundation - Docker containerization - Proxmox API integration - Single VM deployment (10 seconds) - Template creation (automated) - SSH automation - Infrastructure monitoring (Overseer Agent) - Git repository and documentation

**In Progress:** - Multi-VM orchestration - Network creation and isolation - React dashboard - Scenario YAML format

**Not Started:** - Local LLM integration - Vulnerability packages - Offline bundle - OVA appliance packaging - Compliance documentation

**Overall:** ~40% complete, target 75% for demo

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## Business Model

### Pricing Strategy

#### Per-Seat Licensing

\$500/year per concurrent user

- Minimum: 10 seats (\$5,000/year)
- Volume discount: 100+ seats (25% off)

## **Site License (Target for Fortune 50)**

\$50,000/year per data center

- Unlimited users
- Unlimited scenarios
- Premium support (24/7)

## **Perpetual License**

\$250,000 one-time

- Lifetime license
  - 1 year support included
  - Source code access (optional)
- 

## **Revenue Projections**

**Conservative Scenario (Year 1):** - 5 Fortune 50 customers @ \$250K = \$1.25M - 10 regional banks @ \$100K = \$1M - 15 mid-market @ \$50K = \$750K - **Total: \$3M ARR**

**Aggressive Scenario (Year 2):** - 10 Fortune 50 @ \$250K = \$2.5M - 25 regional banks @ \$100K = \$2.5M - 40 mid-market @ \$50K = \$2M - **Total: \$7M ARR**

**Market potential:** \$115M (Fortune 500 alone)

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## **Cost Analysis**

**Our Platform:** \$50K/year

**Competitor (SimSpace):** \$500K/year

**Customer saves:** \$450K/year = 9 security engineers' salaries

**ROI for customer:** - Year 1: 10x return - Year 2+: Infinite (perpetual license) - Reduced breach risk: Priceless

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## **VP Presentation Strategy**

### **Demo Flow (15 minutes)**

#### **Opening (2 min)**

“This is Glassdome - an autonomous cyber range platform designed for Fortune 50 companies. Unlike SaaS platforms, we run completely on-premise and air-gapped. Let me show you how we deploy a 9-VM training environment in under 5 minutes.”

#### **Scenario Deployment (3 min)**

1. Open web dashboard
2. Click “Scenario Library”

3. Select “Enterprise Web Application” (9 VMs, 4 networks)
4. Click “Deploy”
5. Watch progress bar and topology build in real-time
6. Show completion: “9 VMs deployed in 4m 32s”

### **Live Monitoring (2 min)**

1. Click on deployed scenario
2. Show network topology visualization
3. Click on VMs to show resource usage
4. Demonstrate console access

### **Research Agent (3 min)**

1. Navigate to Research Agent UI
2. Enter CVE-2024-12345
3. Watch AI analyze (or show pre-recorded if slow)
4. Show generated artifacts (Terraform, Ansible, package)
5. Explain “this is how we go from CVE to lab in 2 hours”

### **Air-Gapped Operation (2 min)**

1. Disconnect network cable (physical demonstration)
2. Show system still functioning
3. Deploy another scenario
4. Explain offline bundle concept

### **Compliance & Business Value (2 min)**

1. Show compliance dashboard
2. Display audit logs
3. Show SSP document (PDF)
4. Present ROI: \$450K/year savings vs. SimSpace

### **Closing (1 min)**

“Glassdome provides Fortune 50 companies with rapid CVE response capability, on-premise control, and 90% cost savings. We’re ready for pilot deployment.”

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## **Key Messages for VP**

### **Problem Statement**

“Fortune 50 companies take 2-4 weeks and \$40K+ in analyst time to build training labs for new CVEs. When WannaCry and Log4Shell hit, most companies had zero training environments ready.”

## **Solution**

“Glassdome deploys complete cyber range scenarios in 2 hours, runs 100% on-premise or air-gapped, and costs 90% less than competitors. Our AI Research Agent autonomously analyzes new CVEs and generates training labs automatically.”

## **Business Impact**

“Security teams can test defenses against new CVEs the same day they’re published. Training labs that took 40 hours of analyst time now take 2 hours of AI time - that’s a \$450K/year savings.”

## **Competitive Advantage**

“We’re the only cyber range platform that works completely air-gapped with autonomous AI research. SimSpace requires internet and manual scenario building. We deploy where they can’t, and 10x faster.”

## **Market Opportunity**

“Global cyber range market: \$2.3B by 2027. Fortune 500 companies alone represent \$115M TAM. Just 10 customers at \$250K each = \$2.5M ARR. First mover advantage in enterprise on-premise market.”

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## **Risk Mitigation**

### **Risk 1: Local LLM too slow or poor quality**

**Mitigation:** - Use Llama 3 8B (fast) vs 70B (slow but better) - Pre-generate some responses for demo - Have online version as backup

### **Risk 2: Proxmox environment issues during demo**

**Mitigation:** - Record backup video - Test in production environment 3 days before - Have rollback snapshot ready - Practice on actual hardware 10+ times

### **Risk 3: Multi-VM deployment fails**

**Mitigation:** - Deploy VMs sequentially if parallel fails - Have pre-deployed scenario as backup - Test 20+ times before demo

### **Risk 4: Team capacity**

**Mitigation:** - Daily standups to identify blockers early - Prioritize ruthlessly (defer Azure/AWS, Windows VMs) - Bring in contractors if needed - Extend hours for final week

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## Critical Success Factors

### 1. Team Alignment

- Everyone understands we're building for Fortune 50, not hobbyists
- Clear roles and daily deliverables
- No gold-plating - MVP for demo, polish later

### 2. Focus on Core Path

- Multi-network orchestration (9 VMs, 4 networks)
- Professional UI (React dashboard)
- Air-gapped operation (offline bundle)
- Demo scenario that works flawlessly

### 3. Deferred Features (Post-Demo)

- Azure/AWS integration
- Windows VM support
- Full RBAC/SSO implementation
- Advanced networking features
- Kubernetes Helm chart

### 4. Daily Progress

- Stand-ups every morning (15 min)
  - Demo practice every Friday (30 min)
  - Blockers resolved same-day
  - No surprises on Dec 8
- 

## Call to Action

### What We're Asking

#### From Leadership

1. **Approve budget:** Contractors if needed (\$10K-20K)
2. **Clear calendars:** Team needs focus time
3. **Stakeholder management:** Buffer team from distractions
4. **Go/no-go decision:** By Nov 22 (Day 3) based on progress

#### From Team

1. **Commitment:** 18 days of focused execution
2. **Daily updates:** Stand-ups and progress reports
3. **Quality:** Working > perfect (we can polish post-demo)
4. **Collaboration:** Help each other, no silos

## From You

1. **Read this document** thoroughly
  2. **Ask questions** - clarify before we start
  3. **Commit to role** - or raise concerns now
  4. **Bring energy** - this is ambitious but achievable
- 

## Next Steps

### Immediate (Today - Nov 20)

- Team reads this document
- Schedule kick-off meeting (all hands)
- Confirm roles and assignments
- Identify any blockers or concerns

### Tomorrow (Nov 21)

- First stand-up (8am)
- Backend: Start multi-network orchestration
- Frontend: Initialize React project
- Infrastructure: Setup Proxmox VLANs
- PM: Create detailed task board

### This Week (Nov 20-27)

- Deploy 9-VM scenario with 4 networks
  - Basic React dashboard with scenario library
  - VM deployment via web UI
  - Network topology visualization
  - Test end-to-end multiple times
- 

## Questions & Answers

### Q: Is 18 days realistic?

**A:** Yes, with 6-7 people and focused execution. We're not building a production system - we're building a compelling demo that proves the concept. We have 40% of the foundation already built.

### Q: What if we can't finish?

**A:** We have a prioritized list. Even if we only complete Week 1 goals (multi-network deployment), that's impressive. The VP demo can be adjusted based on progress.

**Q: What about after the demo?**

**A:** If approved, we'll hire 2-3 full-time developers and spend 3-6 months building production version. This is a proof-of-concept to secure funding.

**Q: Why Fortune 50, not everyone?**

**A:** Fortune 50 companies have: - Budgets (\$250K/year is noise) - Compliance requirements (need on-premise) - Long sales cycles (6-12 months to close, but big deals) - Reference value (1 Fortune 50 customer = credibility for 10 more)

**Q: What if local LLM doesn't work well?**

**A:** We demonstrate the concept with online LLM (OpenAI/Claude) during demo, and show the local LLM as a "bonus feature" for air-gapped. The core value is multi-VM orchestration and rapid deployment, not just AI.

**Q: Do we need Windows VMs?**

**A:** Not for Dec 8 demo. Linux-only scenarios are sufficient to demonstrate capability. Windows support can be Phase 2 (post-funding).

**Q: What about Azure/AWS?**

**A:** Deferred. Proxmox on-premise is sufficient for Fortune 50 (they prefer it). Cloud support is Phase 2.

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## Appendix

### A. Technical Architecture Diagrams

See `docs/COMPLETE_ARCHITECTURE.md` for detailed architecture

### B. Implementation Checklist

See `docs/IMPLEMENTATION_PRIORITIES.md` for day-by-day tasks

### C. Network Topology Examples

See `docs-NETWORK_ARCHITECTURE.md` for scenario designs

### D. Dashboard Mockups

See `docs/DASHBOARD_ARCHITECTURE.md` for UI designs

### E. Enterprise Deployment Options

See `docs/ENTERPRISE_DEPLOYMENT.md` for packaging details

## F. VP Presentation Roadmap

See `docs/VP_PRESENTATION_ROADMAP.md` for full demo script

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## Contact & Resources

**Project Lead:** [Your Name]

**Project Repository:** <https://github.com/ntounix-prog/glassdome>

**Documentation:** /home/nomad/glassdome/docs/

**Proxmox Host:** 192.168.3.2

**Stand-up Time:** Daily, 8:00 AM

**Slack Channel:** #glassdome-team (create if needed)

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**Let's build something extraordinary. 18 days to change cybersecurity training forever.**

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*End of Team Brief - Version 1.0*