

Environment Readiness Verification Log






Version: 1.0
Date: September 22, 2025
Environment: Windows PC (HANA-X-JR0) → Ubuntu 24.04 Server (HX dev server)
Approach: Verification-first workflow with Do → Verify → Log pattern

Verification Status Overview


| Category | Total Steps | Passed | Failed | Pending |
|---------------------------|-------------|--------|--------|---------|
| Ubuntu Server Setup | 5 | 0 | 0 | 5 |
| Windows PC Setup | 3 | 0 | 0 | 3 |
| SSH Configuration | 3 | 0 | 0 | 3 |
| VS Code Remote Setup | 2 | 0 | 0 | 2 |
| Hosts File Configuration | 2 | 0 | 0 | 2 |
| Virtual Environment Setup | 3 | 0 | 0 | 3 |
| Final Verification | 2 | 0 | 0 | 2 |
| TOTAL | 20 | 0 | 0 | 20 |

Detailed Verification Log




Ubuntu Server Setup

| Component | Status | Timestamp | Verification Command | Result | Notes |
|----------------------------------|---|-----------|---|--------|-------|
| System Up-date & CA Certificates |  PENDING | | <code>ls -la /etc/ssl/certs/ wc -l</code> | | |
| Git Installation |  PENDING | | <code>git --version</code> | | |
| Python 3.11 Environment |  PENDING | | <code>python3 --version</code> | | |
| OpenSSH Server |  PENDING | | <code>sudo systemctl status ssh grep "Active:"</code> | | |
| Development Tools |  PENDING | | <code>gcc --version head -1</code> | | |



Windows PC Setup

| Component | Status | Timestamp | Verification Command | Result | Notes |
|----------------------|---|-----------|---------------------------------------|--------|-------|
| VS Code Installation |  PENDING | | <code>code --version</code> | | |
| Git for Windows |  PENDING | | <code>git --version</code> | | |
| Remote-SSH Extension |  PENDING | | VS Code Remote-SSH commands available | | |

SSH Configuration

| Component | Status | Timestamp | Verification Command | Result | Notes |
|--------------------|---|-----------|---|--------|-------|
| SSH Key Generation |  PENDING | | <code>ssh-add -l</code> | | |
| SSH Key Deployment |  PENDING | | <code>ls -la ~/.ssh/authorized_keys</code> | | |
| SSH Config File |  PENDING | | <code>ssh hx-dev-server "echo 'SSH connection successful'"</code> | | |




VS Code Remote Setup

| Component | Status | Timestamp | Verification Command | Result | Notes |
|-----------------------|---|-----------|--|--------|-------|
| Remote-SSH Connection |  PENDING | | VS Code connects to hx-dev-server | | |
| Remote Extensions |  PENDING | | <code>python3 --version</code> in VS Code terminal | | |



Hosts File Configuration

| Component | Status | Timestamp | Verification Command | Result | Notes |
|--------------------|---|-----------|---|--------|-------|
| Ubuntu Hosts File |  PENDING | | <pre>getent hosts dev- test.hana- x.ai && ping -c 1 dev- test.hana- x.ai</pre> | | |
| Windows Hosts File |  PENDING | | <pre>findstr dev- test.hana- x.ai C:\Win- dows\System3 2\drivers\et c\hosts && ping -n 1 dev- test.hana- x.ai</pre> | | |






Virtual Environment Setup

| Component | Status | Timestamp | Verification Command | Result | Notes |
|------------------------------|---|-----------|---|--------|-------|
| Virtual Environment Creation |  PENDING | | <pre>which python (should show venv path)</pre> | | |
| VS Code Python Interpreter |  PENDING | | VS Code status bar shows correct interpreter | | |
| Environment Packages |  PENDING | | <pre>pip list shows pytest, requests</pre> | | |

Final Verification

| Component | Status | Timestamp | Verification Command | Result | Notes |
|--------------------------|---|-----------|---------------------------------|--------|-------|
| Environment Test Script |  PENDING | | python test_environment.py | | |
| VS Code Integration Test |  PENDING | | Run test script in VS Code (F5) | | |

Status Legend

-  **PASS:** Verification successful, component working as expected
-  **FAIL:** Verification failed, requires immediate attention
-  **PENDING:** Not yet tested
-  **RETRY:** Failed once, retrying after fix
-  **WARNING:** Working but with issues noted

Critical Issues Log

| Issue | Component | Timestamp | Description | Resolution | Status |
|-------|-----------|-----------|-------------|------------|--------|
| | | | | | |

Environment Summary

System Information

- **Ubuntu Server IP:** [TO BE FILLED]
- **Ubuntu Version:** [TO BE FILLED]
- **Windows Version:** [TO BE FILLED]
- **Python Version:** [TO BE FILLED]
- **Git Version:** [TO BE FILLED]

Network Configuration

- **SSH Connection:** [TO BE TESTED]
- **Domain Resolution:** [TO BE TESTED]
- **Firewall Status:** [TO BE CHECKED]

Development Environment

- **Virtual Environment Path:** [TO BE FILLED]

- **VS Code Remote Connection:** [TO BE TESTED]
 - **Python Interpreter:** [TO BE CONFIGURED]
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Completion Checklist

Pre-Setup

- ☐ Network connectivity verified
- ☐ Admin access confirmed on both systems
- ☐ Internet connectivity confirmed

Core Components

- ☐ Ubuntu server fully configured
- ☐ Windows PC setup complete
- ☐ SSH connection established
- ☐ VS Code Remote-SSH working

Training Environment

- ☐ Hosts file configured on both systems
- ☐ Virtual environment created and configured
- ☐ Python 3.11 environment verified
- ☐ All verification tests passing

Final Sign-off

- ☐ All 20 verification steps completed
 - ☐ No critical issues remaining
 - ☐ Environment ready for Module 1 training
 - ☐ Documentation complete and accurate
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Instructions for Use

1. **During Setup:** Update each verification step as you complete it
2. **Status Updates:** Use the status legend consistently
3. **Timestamp Format:** Use YYYY-MM-DD HH:MM:SS format
4. **Issue Tracking:** Log any problems in the Critical Issues section
5. **Final Review:** Complete the Environment Summary before sign-off

CRITICAL: Do not proceed to next step if any verification fails. Fix issues immediately and re-test.

This log implements the verification-first workflow with Do → Verify → Log pattern for systematic environment validation.