

# Azure Virtual Desktop Recording - Extended Session with Domain Join Error

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## Recording Overview

This Azure Virtual Desktop (AVD) recording was significantly longer than anticipated due to multiple configuration challenges and errors encountered during the setup process. The entire recording spans much longer than typical AVD demonstrations, with the virtual machine alone taking 18 minutes and 50 seconds to execute before eventually failing with a domain join error.

## Why the Extended Duration?

Azure Virtual Desktop deployments can be complex and often encounter various issues during the provisioning and configuration phases. This recording demonstrates the real-world challenges that practitioners may face when setting up AVD environments, including:

- Multiple configuration attempts
- Network connectivity issues
- Domain controller communication problems
- Extension provisioning failures

## Final Error Encountered

After the virtual machine ran for 18 minutes and 50 seconds (which is just one portion of the much longer total recording), it appeared to be configured correctly but encountered a critical error during the domain join process:

### Error Details

- **Error Type:** `VMExtensionProvisioningError`
- **Extension:** `joindomain` (JsonAddDomainExtension from Microsoft.Compute)
- **Error Code:** 2
- **Specific Issue:** "Join failed for Domain 'ditectrev.com'. More information: An Active Directory Controller for the domain could not be contacted."

## Root Cause Analysis

The error indicates that the virtual machine was unable to establish communication with the Active Directory domain controller for the domain 'ditectrev.com'. This is a common issue in AVD deployments and can occur due to:

1. **Network Connectivity Issues:** The VM cannot reach the domain controller over the network
2. **DNS Configuration Problems:** Incorrect DNS server settings preventing domain controller discovery
3. **Firewall Restrictions:** Network security groups or firewalls blocking required ports
4. **Domain Controller Availability:** The target domain controller may be offline or unreachable

## Suggested Troubleshooting Steps

The error message provides three key troubleshooting recommendations:

1. **Check Network Connectivity:** Verify that the client can communicate with the domain controller
2. **Verify DNS Configuration:** Ensure the preferred DNS server is correctly configured
3. **Run Domain Controller Discovery:** Use `nltest /dsgetdc` commands to verify DC discovery

## Why This Recording is Valuable

Despite the error, this recording provides significant educational value because:

- **Real-world Scenarios:** It demonstrates actual challenges practitioners face
- **Troubleshooting Process:** Shows the iterative nature of AVD deployment
- **Error Handling:** Illustrates how to interpret and respond to common AVD errors
- **Time Expectations:** Sets realistic expectations for AVD deployment duration

## Conclusion

While the domain join error prevented a complete successful deployment, this recording effectively demonstrates the complexity of Azure Virtual Desktop implementations and the importance of proper network and domain configuration. The extended duration and encountered errors are representative of real-world AVD deployment experiences, making this a valuable learning resource for understanding both the process and potential pitfalls.

**Note:** The domain join error was not resolved in this recording as it would require additional network infrastructure setup and domain controller configuration, which is beyond the scope of this demonstration.