Getting Started: Configuring Microsoft Azure Cloud Environments

Overview

This guide provides step-by-step instructions for configuring AiVRIC software to scan Microsoft Azure Cloud environments. It covers installation, authentication setup, permissions, and initial scan configuration to ensure accurate and secure assessments of Azure resources.

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1. System Requirements

Before installation, verify that the following requirements are met:

Operating System

- Windows 10 or later
- macOS 12 or later
- Linux (Ubuntu 20.04 or later)

Hardware

- Minimum 8 GB RAM
- 4 CPU cores
- 10 GB free disk space

Network

- Outbound HTTPS access to Azure APIs
- Access to AiVRIC update and licensing servers

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2. Installation

1. Download the AiVRIC installer from the official website: **www.aivric.com/downloads**
2. Run the installer and follow the on-screen instructions.
3. Launch AiVRIC after installation completes.
4. Log in using the credentials provided in the purchase confirmation email.

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3. Connecting AiVRIC to Azure

AiVRIC requires secure access to Azure resources through your organization's EntraID or Azure Active Directory (AAD) instance.

Step 1: Create an EntraID Application

1. Sign in to the **Azure Portal**.
2. Navigate to **EntraID → App registrations → New registration**.
3. Enter a name (e.g., *AiVRIC Scanner*).
4. Set **Supported account types** to *Accounts in this organizational directory only*.
5. Click **Register**.

Step 2: Configure API Permissions

1. In the registered app, go to **API permissions → Add a permission**.
2. Select **Azure Service Management → Delegated permissions**.
3. Add the following permissions:
   - user_impersonation
   - Reader access for subscription-level scanning
4. Click **Grant admin consent**.

Step 3: Generate Client Secret

1. Go to **Certificates & secrets → New client secret**.
2. Add a description and set an expiration period.
3. Copy the generated secret value immediately (it will not be shown again).

Step 4: Record Application Details

Record the following values for AiVRIC configuration:

- **Application (client) ID**
- **Directory (tenant) ID**
- **Client secret**

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4. Configuring AiVRIC for Azure Scanning

1. Open AiVRIC and navigate to **Settings → Cloud Integrations → Microsoft Azure**.
2. Enter the following details:
   - Tenant ID
   - Client ID
   - Client Secret
3. Click **Validate Connection** to confirm successful authentication.
4. Once validated, select the Azure subscriptions to include in the scan.
5. Save the configuration.

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5. Setting Up Scan Parameters

1. Go to **Scan Configuration → New Scan**.
2. Choose **Azure Cloud Environment** as the target type.
3. Select the desired subscriptions and resource groups.
4. Configure scan depth and frequency:
   - **Full Scan**: Comprehensive resource and configuration analysis
   - **Incremental Scan**: Detects changes since the last scan
5. Set scan schedule (manual or automated).
6. Click **Save and Run Scan**.

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6. Reviewing Scan Results

1. After the scan completes, navigate to **Reports → Azure Scans**.
2. Review findings categorized by:
   - Security vulnerabilities
   - Compliance deviations
   - Configuration anomalies
3. Export reports in PDF, CSV, or JSON format.
4. Use the **Remediation Recommendations** tab for guided fixes.

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7. Troubleshooting

Issue	Possible Cause	Resolution
Authentication failed	Incorrect client secret or expired token	Regenerate client secret and update AiVRIC configuration
No subscriptions detected	Insufficient permissions	Ensure the app has Reader access to the subscription
Scan incomplete	Network timeout or API rate limit	Retry scan or adjust scan concurrency settings

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8. Support and Resources

- **Documentation:** www.aivric.com/docs
- **Support Portal:** www.aivric.com/support
- **Email:** support@aivric.com

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9. Best Practices

- Use a dedicated Azure service principal for AiVRIC scanning.
- Rotate client secrets regularly.

- Schedule scans during off-peak hours to minimize API throttling.
- Review and update permissions when adding new Azure subscriptions.
