AppDynamics Machine Agent Installation Guide

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# Overview

This installation script provides an automated, professional-grade deployment of the AppDynamics Machine Agent on Linux systems. The script uses a configuration file approach for controller settings to simplify deployments across different environments.

# Prerequisites

**System Requirements**

* **Operating System**: Linux with systemd support
* **User Access**: Root privileges (sudo access)
* **Required Packages**: unzip (will be validated by script)
* **Network Access**: Outbound HTTPS connectivity to AppDynamics Controller

**Files Required**

1. **Installation Script**: install-appdynamics.sh
2. **Configuration File**: appdynamics-config.conf
3. **Agent Package**: AppDynamics Machine Agent bundle

# Quick Start

**1. Request Linux Machine Agent from the Supportability Team**

**2. Request configuration file for the region you are deploying your agent to:**

* **Production:**
  + **DeltekProdEnt-config.conf**
  + **DeltekProdAPAC-config.conf**
  + **DeltekProdCA-config.conf**
  + **DeltekProdEU-config.conf**
* **Non-Production**
  + **DeltekNonProd-config.conf**
  + **DeltekEng-config.conf**

**3. Set File Permissions**

* chmod 600 appdynamics-config.conf # Protect sensitive data
* chmod +x install-appdynamics.sh # Make script executable

**4. Run Installation**

* sudo ./install-appdynamics.sh

# Detailed Configuration

## Configuration File Location

The script looks for the configuration file in this order:

1. Path specified by APPDYNAMICS\_CONFIG\_FILE environment variable
2. ./appdynamics-config.conf (current directory)

**Example of custom config file location:**

* export APPDYNAMICS\_CONFIG\_FILE=/etc/appdynamics/prod-config.conf
* sudo ./install-appdynamics.sh

**Required Configuration Settings**

These **must** be set in the configuration file:

| **Setting** | **Description** | **Where to Find** |
| --- | --- | --- |
| CONTROLLER\_HOST | Controller hostname/IP | AppDynamics Controller URL |
| ACCOUNT\_ACCESS\_KEY | Account access key | Settings > License > Account |
| ACCOUNT\_NAME | Account name | Settings > License > Account |

### Optional Environment Variables

These can be set via environment variables to override defaults:

| **Variable** | **Default** | **Description** |
| --- | --- | --- |
| APPDYNAMICS\_APP\_NAME | "Application" | Application name in AppDynamics |
| APPDYNAMICS\_TIER\_NAME | "App" | Tier name in AppDynamics |
| APPDYNAMICS\_NODE\_NAME | hostname | Node name (usually hostname) |
| APPDYNAMICS\_CONTROLLER\_PORT | "443" | Controller port |
| APPDYNAMICS\_CONTROLLER\_SSL | "true" | Use SSL for controller connection |
| APPDYNAMICS\_ORCHESTRATION | "false" | Enable orchestration |
| APPDYNAMICS\_UNIQUE\_HOST\_ID | hostname | Unique identifier for this host |
| APPDYNAMICS\_SIM\_ENABLED | "true" | Enable Server Infrastructure Monitoring |
| APPDYNAMICS\_SAP\_MACHINE | "" | SAP machine configuration |
| APPDYNAMICS\_MACHINE\_PATH | "" | Machine path for grouping |

## Usage Examples

### Basic Installation

# 1. Create config file

cat > appdynamics-config.conf << EOF

CONTROLLER\_HOST=mycompany.saas.appdynamics.com

ACCOUNT\_ACCESS\_KEY=abcd1234-5678-90ef-ghij-klmnopqrstuv

ACCOUNT\_NAME=mycompany

EOF

### Custom Application Configuration

# 2. Run installation

sudo ./install-appdynamics.sh

# Set application details

export APPDYNAMICS\_APP\_NAME="ECommerce-Production"

export APPDYNAMICS\_TIER\_NAME="WebServers"

export APPDYNAMICS\_NODE\_NAME="web-server-01"

# Run installation

sudo ./install-appdynamics.sh

## Different Environment Deployments

# Production environment

* + **DeltekProdEnt**
  + **DeltekProdAPAC**
  + **DeltekProdCA**
  + **DeltekProdEU**
* **Non-Production**
  + **DeltekNonProd**
  + **DeltekEng**

sudo ./install-appdynamics.sh

# Non-Production environment

sudo ./install-appdynamics.sh

**Regional Configuration Templates**

**US Production**

# File: us-prod-config.conf

CONTROLLER\_HOST=usprod.saas.appdynamics.com

ACCOUNT\_ACCESS\_KEY=your-us-prod-key

ACCOUNT\_NAME=company-us-prod

**Europe Production**

# File: eu-prod-config.conf

CONTROLLER\_HOST=euprod.saas.appdynamics.com

ACCOUNT\_ACCESS\_KEY=your-eu-prod-key

ACCOUNT\_NAME=company-eu-prod

**Staging Environment**

# File: staging-config.conf

CONTROLLER\_HOST=staging.saas.appdynamics.com

ACCOUNT\_ACCESS\_KEY=your-staging-key

ACCOUNT\_NAME=company-staging

**Post-Installation Verification**

**Check Installation Status**

# Verify service is running

sudo systemctl status appdynamics-machine-agent

## # Check service logs

sudo journalctl -u appdynamics-machine-agent -f

# Verify installation directory

ls -la /opt/appdynamics/machine-agent/

**Verify Controller Connection**

1. Check AppDynamics Controller
2. Navigate to **Servers > App Servers**
3. Look for your server in the list
4. Verify metrics are being reported

# Troubleshooting

## Common Issues

### Configuration File Not Found

Error: Configuration file not found: ./appdynamics-config.conf

**Solution**: Create the configuration file or specify correct path:

export APPDYNAMICS\_CONFIG\_FILE=/path/to/your/config.conf

### Missing Required Configuration

Error: Missing required configuration in config file: CONTROLLER\_HOST

**Solution**: Ensure all required settings are in your config file

### Agent Package Not Found

Error: AppDynamics Machine Agent package not found in /tmp

**Solution**: Download and place the machineagent-bundle file in /tmp/

### Permission Denied

Error: This script must be run as root user

**Solution**: Run with sudo: sudo ./install-appdynamics.sh

### Service Failed to Start

Error: AppDynamics Machine Agent service failed to start

**Solution**: Check logs for details:

sudo journalctl -u appdynamics-machine-agent -n 50

**Log Files**

* **Installation Log**: /var/log/appdynamics-install.log
* **Service Logs**: journalctl -u appdynamics-machine-agent
* **Agent Logs**: /opt/appdynamics/machine-agent/logs/

**Security Considerations**

**File Permissions**

# Protect configuration file

chmod 600 appdynamics-config.conf

chown root:root appdynamics-config.conf

# Protect script

chmod 755 install-appdynamics.sh

chown root:root install-appdynamics.sh

**Network Security**

* Ensure outbound HTTPS (443) access to AppDynamics Controller
* Consider firewall rules for your environment
* Use secure methods to distribute configuration files

**Advanced Usage**

**Automated Deployment**

#!/bin/bash

# deployment-script.sh

# Set environment for this deployment

export APPDYNAMICS\_APP\_NAME="MyApp-Production"

export APPDYNAMICS\_TIER\_NAME="AppServers"

export APPDYNAMICS\_CONFIG\_FILE="/etc/appdynamics/prod.conf"

# Run installation

sudo ./install-appdynamics.sh

# Verify deployment

if systemctl is-active --quiet appdynamics-machine-agent; then

echo "✓ AppDynamics Agent deployed successfully"

else

echo "✗ AppDynamics Agent deployment failed"

exit 1

fi

**Configuration Management Integration**

# Ansible example

- name: Deploy AppDynamics configuration

template:

src: appdynamics-config.conf.j2

dest: /etc/appdynamics/config.conf

mode: '0600'

owner: root

group: root

- name: Install AppDynamics Machine Agent

command: /opt/scripts/install-appdynamics.sh

environment:

APPDYNAMICS\_CONFIG\_FILE: /etc/appdynamics/config.conf

APPDYNAMICS\_APP\_NAME: "{{ app\_name }}"

APPDYNAMICS\_TIER\_NAME: "{{ tier\_name }}"

## Support

For issues with:

* **Script functionality**: Check logs in /var/log/appdynamics-install.log
* **AppDynamics connectivity**: Verify controller settings and network connectivity
* **Service issues**: Use journalctl -u appdynamics-machine-agent

## File Structure Summary

deployment-directory/

├── install-appdynamics.sh # Installation script

├── appdynamics-config.conf # Configuration file

└── /tmp/machineagent-bundle-\*.zip # Agent package (downloaded separately)