

Red Hat Ansible Automation Platform 2.6- Single Node Installation (Step-by-Step)

Overview

This guide covers installing all AAP components on a **single server** for testing, development, or small production environments.

Phase 1: System Preparation

Step 1: Verify System Requirements

```
# Check RHEL version  
  
cat /etc/redhat-release  
  
# Required: Red Hat Enterprise Linux release 9.4 or later  
  
  
# Check hostname  
  
hostname  
  
hostnamectl  
  
  
# Check system resources  
  
echo "==== CPU Check ==="  
  
lscpu | grep "^CPU(s):"  
  
# Minimum: 4 vCPUs  
  
  
echo "==== Memory Check ==="  
  
free-h  
  
# Minimum: 16GB RAM  
  
  
echo "==== Disk Space Check ==="  
  
df-h  
  
# Minimum: 80GB available
```

Step 2: Set Hostname (if not already set)

```
# Set your hostname  
  
sudo hostnamectl set-hostname aap.example.com
```

```
# Update /etc/hosts  
sudo bash-c 'cat >> /etc/hosts << EOF  
127.0.0.1 aap.example.com aap  
EOF'
```

```
# Verify
```

```
hostname
```

```
hostname-f
```

Step 3: Update System

```
# Update all packages
```

```
sudo dnf update-y
```

```
# Reboot if kernel updated
```

```
sudo reboot
```

Step 4: Install and Configure NTP

```
# Install chrony
```

```
sudo dnf install chrony-y
```

```
# Start and enable service
```

```
sudo systemctl start chronyd
```

```
sudo systemctl enable chronyd
```

```
# Verify NTP sync
```

```
sudo chronyc tracking
```

Step 5: Configure Firewall

```
# Check firewall status
```

```
sudo systemctl status firewalld
```

```
# If not running, start it
```

```
sudo systemctl start firewalld
```

```
sudo systemctl enable firewalld
```

```
# Open required ports

sudo firewall-cmd--permanent--add-service=http
sudo firewall-cmd--permanent--add-service=https
sudo firewall-cmd--permanent--add-port=5432/tcp # PostgreSQL
sudo firewall-cmd--permanent--add-port=27199/tcp # Receptor
sudo firewall-cmd--permanent--add-port=8080/tcp # Gateway HTTP
sudo firewall-cmd--permanent--add-port=8443/tcp # Gateway HTTPS
```

```
# Reload firewall

sudo firewall-cmd--reload
```

```
# Verify

sudo firewall-cmd--list-all
```

Step 6: Verify SELinux

```
# Check SELinux status

getenforce

# Should show: Enforcing
```

```
# If not enforcing, enable it

sudo setenforce 1
```

```
# Make persistent

sudo sed -i 's/SELINUX=permissive/SELINUX=enforcing/' /etc/selinux/config
sudo sed -i 's/SELINUX=disabled/SELINUX=enforcing/' /etc/selinux/config
```

Phase 2: Red Hat Subscription

Step 7: Register System with Red Hat

```
# Register with Red Hat Subscription Manager

sudo subscription-manager register--username YOUR_RH_USERNAME--password
YOUR_RH_PASSWORD
```

```
# You'll see output like:
```

```
# The system has been registered with ID: xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx
```

Step 8: Verify Registration

```
# Refresh subscription
```

```
sudo subscription-manager refresh
```

```
# Check registration status
```

```
sudo subscription-manager identity
```

```
# Expected output:
```

```
# system identity: xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx
```

```
# name: aap.example.com
```

```
# org name: Your Organization
```

```
# org ID: 1234567
```

Step 9: Enable Required Repositories

```
# Enable BaseOS repository
```

```
sudo subscription-manager repos--enable rhel-9-for-x86_64-baseos-rpms
```

```
# Enable AppStream repository
```

```
sudo subscription-manager repos--enable rhel-9-for-x86_64-appstream-rpms
```

```
# Verify enabled repositories
```

```
sudo subscription-manager repos--list-enabled
```

```
# Clean and update cache
```

```
sudo dnf clean all
```

```
sudo dnf makecache
```

Phase 3: Registry Service Account

Step 10: Create Red Hat Registry Service Account

Open browser and navigate to:

<https://access.redhat.com/terms-based-registry/accounts>

Steps:

1. Click "New Service Account"
2. **Name:** ansible-automation-platform-prod
3. **Description:** Service account for AAP 2.6 installation
4. Click "Create"
5. **Copy and save securely:**
 - o **Username:** (looks like 12345678|ansible-automation-platform-prod)
 - o **Token:** (long alphanumeric string)

Save these credentials- you'll need them in Step 13!

Phase 4: Download and Extract Installer

Step 11: Download Installer

Option A: From Red Hat Customer Portal (recommended)

1. Navigate to: <https://access.redhat.com/downloads/>
2. Select: **Red Hat Ansible Automation Platform**
3. Version: **2.6**
4. Download: "**Ansible Automation Platform 2.6 Setup Bundle**"
5. File: ansible-automation-platform-setup-bundle-2.6-1.tar.gz

Option B: Using wget (if you have download URL)

```
# Create download directory
```

```
mkdir-p ~/downloads
```

```
cd ~/downloads
```

```
# Download (replace URL with actual download link)
```

```
wget https://access.cdn.redhat.com/.../ansible-automation-platform-setup-bundle-2.6-1.tar.gz
```

Step 12: Extract Installer

```
# Create installation directory
```

```
sudo mkdir-p /opt/ansible-automation-platform
```

```
# Copy downloaded file  
sudo cp ~/downloads/ansible-automation-platform-setup-bundle-2.6-1.tar.gz /opt/ansible-automation-platform/
```

```
# Change to installation directory  
cd /opt/ansible-automation-platform
```

```
# Extract  
sudo tar xvf ansible-automation-platform-setup-bundle-2.6-1.tar.gz
```

```
# Change to extracted directory  
cd ansible-automation-platform-setup-bundle-2.6-1
```

```
# List contents  
ls -la
```

You should see:

```
drwxr-xr-x collections/  
drwxr-xr-x group_vars/  
-rw-r--r-- inventory  
-rwxr-xr-x setup.sh  
...
```

Phase 5: Configure Installation

Step 13: Backup Original Inventory

```
# Still in: /opt/ansible-automation-platform/ansible-automation-platform-setup-bundle-2.6-1
```

```
# Backup original inventory  
sudo cp inventory inventory.original
```

Step 14: Create Single Node Inventory File

```
# Edit inventory file  
sudo vi inventory
```

Press i to enter INSERT mode, then paste this configuration:

```
# Single Node Ansible Automation Platform Installation
```

```
# All components on one server
```

```
[automationcontroller]
```

```
aap.example.com
```

```
[automationgateway]
```

```
aap.example.com
```

```
[database]
```

```
aap.example.com
```

```
[all:vars]
```

```
# =====
```

```
# ADMIN CREDENTIALS
```

```
# =====
```

```
# Admin password for Automation Controller
```

```
admin_password='MySecurePass123!'
```

```
# =====
```

```
# REDIS CONFIGURATION
```

```
# =====
```

```
redis_mode=standalone
```

```
# =====
```

```
# POSTGRESQL DATABASE
```

```
# =====
```

```
pg_host='aap.example.com'
```

```
pg_port=5432
```

```
pg_database='awx'
```

```
pg_username='awx'  
pg_password='AwxDbPass123!'  
pg_sslmode='prefer'  
  
# =====  
# REGISTRY CREDENTIALS  
# =====  
# Replace with YOUR credentials from Step 10  
registry_url='registry.redhat.io'  
registry_username='12345678|your-service-account-name'  
registry_password='your-very-long-token-string-here'  
  
# =====  
# AUTOMATION GATEWAY  
# =====  
automationgateway_admin_password='GatewayPass123!'  
automationgateway_pg_host='aap.example.com'  
automationgateway_pg_port=5432  
automationgateway_pg_database='automationgateway'  
automationgateway_pg_username='automationgateway'  
automationgateway_pg_password='GatewayDbPass123!'  
automationgateway_pg_sslmode='prefer'  
  
# =====  
# SSL/TLS CONFIGURATION (Optional)  
# =====  
# Uncomment if using custom certificates  
# custom_ca_cert=/path/to/ca.crt  
# web_server_ssl_cert=/path/to/tower.cert  
# web_server_ssl_key=/path/to/tower.key  
# automationgateway_ssl_cert=/path/to/gateway.cert
```

```
# automationgateway_ssl_key=/path/to/gateway.key
```

Important: Replace these values with your own:

- aap.example.com → Your actual hostname
- MySecurePass123! → Your strong admin password
- AwxDbPass123! → Your database password
- GatewayPass123! → Your gateway admin password
- GatewayDbPass123! → Your gateway database password
- registry_username → From Step 10
- registry_password → Token from Step 10

Save and exit:

- Press ESC
- Type :wq
- Press ENTER

Step 15: Verify Inventory Configuration

```
# Check for syntax errors
```

```
sudo cat inventory | grep-E 'password|username' | head-10
```

```
# Verify hostname resolution
```

```
ping-c 2 aap.example.com
```

```
# Verify localhost resolution
```

```
ping-c 2 localhost
```

Phase 6: Run Installation

Step 16: Set Proper Permissions

```
# Set umask
```

```
umask 0022
```

```
# Make setup script executable
```

```
sudo chmod +x setup.sh
```

```
# Verify  
ls-la setup.sh
```

Step 17: Run Pre-Installation Check

```
# Check if Ansible is available  
which ansible-playbook
```

```
# Check Python version  
python3--version
```

Step 18: Start Installation

```
# Run installation (this will take 20-45 minutes)  
sudo ./setup.sh
```

What happens during installation:

1. ✓ Verifying Ansible installation
2. ✓ Installing required packages
3. ✓ Configuring PostgreSQL database
4. ✓ Creating database users and schemas
5. ✓ Installing Automation Controller
6. ✓ Installing Automation Gateway
7. ✓ Configuring Redis
8. ✓ Installing Receptor
9. ✓ Configuring NGINX
10. ✓ Starting services
11. ✓ Running database migrations
12. ✓ Creating admin user

Monitor the output for errors. Successful installation ends with:

```
PLAY RECAP ****  
aap.example.com      : ok=XXX changed=XXX unreachable=0   failed=0
```

The setup process completed successfully.

Setup log saved to /var/log/tower/setup-YYYY-MM-DD-HH:MM:SS.log

Step 19: Verify Installation Completed

```
# Check if installation log shows success  
sudo tail-20 /var/log/tower/setup-* .log
```

```
# Look for "The setup process completed successfully"
```

Phase 7: Verify Services

Step 20: Check All Services

```
# Check Automation Controller  
sudo systemctl status automation-controller
```

```
# Check Receptor  
sudo systemctl status receptor
```

```
# Check PostgreSQL  
sudo systemctl status postgresql
```

```
# Check NGINX  
sudo systemctl status nginx
```

```
# Check Redis  
sudo systemctl status redis
```

```
# List all AAP-related services  
sudo systemctl list-units --type=service --state=running | grep -E  
'automation|receptor|nginx|postgresql|redis'
```

All services should show: active (running)

Step 21: Check Service Logs

```
# Controller logs  
sudo tail-50 /var/log/tower/tower.log
```

```
# NGINX logs  
sudo tail-20 /var/log/nginx/error.log  
  
# PostgreSQL logs  
sudo ls-la /var/lib/pgsql/data/log/  
sudo tail-20 /var/lib/pgsql/data/log/postgresql-*.log
```

Step 22: Verify Ports Are Listening

```
# Check listening ports  
sudo ss-tlnp | grep-E ':80|:443|:5432|:27199|:8080|:8443'
```

Expected output should show:

```
# :80 - NGINX HTTP  
# :443 - NGINX HTTPS  
# :5432 - PostgreSQL  
# :8080 - Gateway HTTP  
# :8443 - Gateway HTTPS  
# :27199- Receptor
```

Step 23: Test HTTP Connectivity

```
# Test localhost  
curl-k http://localhost
```

```
# Test HTTPS  
curl-k https://localhost
```

```
# Test gateway  
curl-k https://localhost:8443
```

```
# Test with hostname  
curl-k https://aap.example.com
```

Phase 8: Obtain and Upload Subscription

Step 24: Create Subscription Manifest

Open browser and navigate to:

https://access.redhat.com/management/subscription_allocations

Create Allocation:

1. Click "**New Subscription Allocation**"
2. **Name:** Ansible Automation Platform 2.6
3. **Type:** Select "Satellite 6.16"
4. Click "**Create**"

Add Subscriptions:

1. Click on your allocation name
2. Click "**Subscriptions**" tab
3. Click "**Add Subscriptions**"
4. Find: "**Red Hat Ansible Automation Platform**"
5. **Quantity:** Enter number of nodes (minimum 1)
6. Click "**Submit**"

Download Manifest:

1. Click "**Export Manifest**"
2. Save file: manifest_ansible_automation_platform.zip

Step 25: Access Web UI

Open browser:

<https://aap.example.com>

Or use IP address:

https://YOUR_SERVER_IP

Accept SSL Warning:

- Click "Advanced"
- Click "Accept the Risk and Continue" (or similar)

Login Screen Appears:

- Username: admin
- Password: (your admin_password from inventory)

Step 26: Upload Subscription Manifest

Subscription Wizard appears automatically:

1. Click "Subscription manifest" tab
2. Click "Browse" button
3. Select downloaded manifest file
4. Check box: "I agree to the End User License Agreement"
5. Click "Finish"

Wait for upload to complete (30-60 seconds)

Verify Success:

- Status: **Compliant** (green checkmark)
- Hosts Automated: Shows available count
- Subscription Valid: Shows expiration date

Step 27: Configure Automation Analytics

Default: Opted IN to share anonymous usage data

To opt out:

1. Click hamburger menu (\equiv)
 2. Navigate: **Settings** → **Automation Execution** → **System**
 3. Scroll to: **Gather data for Automation Analytics**
 4. Uncheck the box
 5. Click "Save"
-

Phase 9: Initial Configuration

Step 28: Explore the Dashboard

Main sections:

- **Dashboard:** Overview of automation activity
- **Automation Execution:** Job templates, projects, inventories
- **Automation Decisions:** Event-Driven Ansible (if installed)
- **Access Management:** Users, teams, organizations
- **Administration:** Settings, subscription, tasks

Step 29: Create Your First Organization

1. Click "Access Management" → "Organizations"
2. Click "Create organization" button
3. Configure:

- **Name:** My Organization
 - **Description:** Default organization for automation
4. Click "**Create organization**"

Step 30: Create Additional User

1. Click "**Access Management**" → "**Users**"
2. Click "**Create user**"
3. Configure:
 - **Username:** automation-admin
 - **Email:** admin@example.com
 - **Password:** (set strong password)
 - **Confirm Password:** (repeat password)
 - **User Type:** System Administrator
4. Click "**Create user**"

Step 31: Create Credential for SSH Access

1. Click "**Automation Execution**" → "**Infrastructure**" → "**Credentials**"
2. Click "**Create credential**"
3. Configure:
 - **Name:** Demo SSH Credential
 - **Organization:** My Organization
 - **Credential Type:** Machine
 - **Username:** root (or your SSH user)
 - **SSH Private Key:**
 - Click "**Browse**" to upload
 - Or paste key directly
4. Click "**Create credential**"

Step 32: Create Demo Project

1. Click "**Automation Execution**" → "**Projects**"
2. Click "**Create project**"
3. Configure:
 - **Name:** Demo Project
 - **Organization:** My Organization

- **Source Control Type:** Git
 - **Source Control URL:** <https://github.com/ansible/ansible-examples.git>
 - Leave other defaults
4. Click "Create project"

Wait for sync:

- Status changes from "Pending" to "Successful"
- Takes 10-30 seconds

Step 33: Create Inventory

1. Click "Automation Execution" → "Infrastructure" → "Inventories"
2. Click "Create inventory" → "Create inventory"
3. Configure:
 - **Name:** Demo Inventory
 - **Organization:** My Organization
4. Click "Create inventory"

Add Host:

1. Click on "Demo Inventory"
 2. Click "Hosts" tab
 3. Click "Create host"
 4. Configure:
 - **Name:** localhost
 - **Variables:** (optional)
 5. ansible_connection: local
 6. Click "Create host"
-

Phase 10: Test Your Installation

Step 34: Create Simple Test Playbook Project

Create a test Git repository or use existing:

For quick test, we'll use localhost:

1. Click "Automation Execution" → "Templates"
2. Click "Create template" → "Create job template"
3. Configure:

- **Name:** Hello World Test
 - **Job Type:** Run
 - **Inventory:** Demo Inventory
 - **Project:** Demo Project
 - **Playbook:** Select one from dropdown (e.g., helloworld.yml)
 - **Credentials:** Demo SSH Credential
 - **Execution Environment:** Default execution environment
4. Click "Create job template"

Step 35: Run Your First Job

1. On the **Hello World Test** template, click "**Launch**" button
2. **Job starts running:**
 - Watch real-time output
 - See each task execute
 - View results

Successful job shows:

- Status: **Successful** (green)
- All tasks: **ok**
- No failures

Step 36: View Job History

1. Click "**Views**" → "**Jobs**"
2. See your completed job
3. Click on job to view details:
 - Full output
 - Timing
 - Host facts
 - Events

Phase 11: Backup and Documentation

Step 37: Create Initial Backup

Navigate to installer directory

```
cd /opt/ansible-automation-platform/ansible-automation-platform-setup-bundle-2.6-1
```

```
# Create backup directory  
sudo mkdir-p /var/backups/ansible  
  
# Run backup  
sudo ./setup.sh -e 'backup_dest=/var/backups/ansible' \  
-e 'use_archive_compression=true' \  
-e 'use_db_compression=true' -b  
  
# Wait for backup to complete (5-10 minutes)
```

```
# Verify backup  
ls-lh /var/backups/ansible/
```

You should see:

automation-platform-backup-YYYY-MM-DD-HH-MM-SS.tar.gz

Step 38: Document Your Installation

```
# Create documentation file  
sudo tee /opt/ansible-automation-platform/INSTALLATION_INFO.txt << EOF  
=====
```

Ansible Automation Platform 2.6

Single Node Installation

=====

Installation Date: \$(date)

Hostname: \$(hostname -f)

IP Address: \$(hostname -I | awk '{print \$1}')

RHEL Version: \$(cat /etc/redhat-release)

=====

COMPONENTS INSTALLED

=====

- Automation Controller
 - Automation Gateway
 - PostgreSQL Database
 - Redis Cache
 - Receptor
 - NGINX Web Server
- =====

ACCESS INFORMATION

=====

Web UI: [https://\\$\(hostname-f\)](https://$(hostname-f))

Admin User: admin

Admin Password: [STORED SECURELY]

=====

DATABASE INFORMATION

=====

PostgreSQL Host: localhost

Controller DB: awx

Gateway DB: automationgateway

PostgreSQL Port: 5432

=====

BACKUP INFORMATION

=====

Backup Location: /var/backups/ansible/

Latest Backup: \$(ls -t /var/backups/ansible/*.tar.gz 2>/dev/null | head -1)

=====

INSTALLATION LOG

=====

```
$(ls -t /var/log/tower/setup-* .log | head -1)
```

```
=====
```

NOTES

```
=====
```

- Firewall configured for HTTP/HTTPS access
- SELinux in enforcing mode
- Self-signed SSL certificates in use
- Registry: registry.redhat.io

Installation completed by: \$(whoami)

```
=====
```

EOF

```
# Display documentation
```

```
cat /opt/ansible-automation-platform/INSTALLATION_INFO.txt
```

Step 39: Save Important Files

```
# Create configuration backup directory
```

```
sudo mkdir -p /root/aap-config-backup
```

```
# Backup inventory file
```

```
sudo cp /opt/ansible-automation-platform/ansible-automation-platform-setup-bundle-2.6-1/inventory \
\\
/root/aap-config-backup/inventory.$(date +%Y%m%d)
```

```
# Backup installation info
```

```
sudo cp /opt/ansible-automation-platform/INSTALLATION_INFO.txt \
/root/aap-config-backup/
```

```
# Create archive of important files
```

```
cd /root
```

```
sudo tar czf aap-config-$(date +%Y%m%d).tar.gz aap-config-backup/
```

```
# List backup  
ls-lh /root/aap-config-*.tar.gz
```

Phase 12: Health Check and Verification

Step 40: System Health Check

```
# Create health check script  
sudo tee /usr/local/bin/aap-health-check.sh << 'EOF'  
  
#!/bin/bash  
  
echo "===== "  
echo "Ansible Automation Platform Health Check"  
echo "===== "  
echo "Date: $(date)"  
echo ""  
  
echo "==== Service Status ==="  
services=("automation-controller" "receptor" "postgresql" "nginx" "redis")  
for service in "${services[@]}"; do  
    if systemctl is-active--quiet $service; then  
        echo "✓ $service: Running"  
    else  
        echo "✗ $service: Not Running"  
    fi  
done  
echo ""  
  
echo "==== Port Status ==="  
ports=("80:HTTP" "443:HTTPS" "5432:PostgreSQL" "8080:Gateway" "8443:Gateway-HTTPS")  
for port_info in "${ports[@]}"; do  
    port="${port_info%%:*}"
```

```
name="${port_info##*:}"  
if ss-tln | grep-q ":$port "; then  
    echo "✓ $name (Port $port): Listening"  
else  
    echo "✗ $name (Port $port): Not Listening"  
fi  
done  
echo ""  
  
echo "==== Disk Usage ===="  
df-h / /var | grep-v "Filesystem"  
echo ""  
  
echo "==== Memory Usage ===="  
free-h | grep "Mem:"  
echo ""  
  
echo "==== System Load ===="  
uptime  
echo ""  
  
echo "==== Recent Errors (last 10) ===="  
journalctl-p err-n 10--no-pager 2>/dev/null || echo "No recent errors"  
echo ""  
  
echo "===== "  
echo "Health Check Complete"  
echo "===== "  
EOF  
  
# Make executable
```

```
sudo chmod +x /usr/local/bin/aap-health-check.sh
```

```
# Run health check
```

```
sudo /usr/local/bin/aap-health-check.sh
```

Step 41: Test API Access

```
# Test API ping endpoint
```

```
curl-k https://localhost/api/v2/ping/
```

```
# Expected response:
```

```
# {"ha":false,"version":"X.X.X","active_node":"aap.example.com"}
```

```
# Get API version
```

```
curl-k https://localhost/api/v2/
```

```
# Test with authentication
```

```
# First, get token (replace admin password)
```

```
TOKEN=$(curl-k-s-X POST \  
-H "Content-Type: application/json" \  
-d '{"username":"admin","password":"YOUR_ADMIN_PASSWORD"}' \  
https://localhost/api/gateway/v1/tokens/ | grep-o '"token": "[^"]*" | cut-d"""-f4)
```

```
echo "Token: $TOKEN"
```

```
# Use token to access API
```

```
curl-k-H "Authorization: Bearer $TOKEN" \  
https://localhost/api/gateway/v1/ping/
```

Step 42: Final Verification Checklist

```
# Run comprehensive checks
```

```
echo "==== Final Installation Verification ==="
```

```
echo ""
```

```
# 1. Hostname resolution
echo "1. Hostname Resolution:"
hostname-f
getent hosts $(hostname-f)
echo ""

# 2. Services
echo "2. Critical Services:"
systemctl is-active automation-controller && echo "✓ Controller" || echo "✗ Controller"
systemctl is-active postgresql && echo "✓ Database" || echo "✗ Database"
systemctl is-active nginx && echo "✓ Web Server" || echo "✗ Web Server"
echo ""

# 3. Web UI
echo "3. Web UI Access:"
curl -k -s -o /dev/null -w "HTTP Status: %{http_code}\n" https://localhost/
echo ""

# 4. Database connectivity
echo "4. Database Connectivity:"
sudo -u awx psql -h localhost -U awx -d awx -c "SELECT 1;" 2>/dev/null && echo "✓ Database Connected" || echo "✗ Database Connection Failed"
echo ""

# 5. Disk space
echo "5. Disk Space:"
df -h / | awk 'NR==2 {print "Root: " $5 " used of " $2}'
df -h /var | awk 'NR==2 {print "Var: " $5 " used of " $2}'
echo ""

echo "==== Verification Complete ==="
```

Troubleshooting Guide

Issue: Services Not Starting

```
# Check service status  
sudo systemctl status automation-controller-l
```

```
# View logs  
sudo journalctl -u automation-controller -n 50
```

```
# Reset and restart  
sudo systemctl reset-failed  
sudo systemctl restart automation-controller
```

Issue: Cannot Access Web UI

```
# Check NGINX is running  
sudo systemctl status nginx
```

```
# Check NGINX configuration  
sudo nginx -t
```

```
# Check firewall  
sudo firewall-cmd --list-all
```

```
# Check SELinux denials  
sudo ausearch -m avc-ts recent
```

Issue: Database Connection Failed

```
# Check PostgreSQL is running  
sudo systemctl status postgresql
```

```
# Check PostgreSQL is listening  
sudo ss-tlnp | grep 5432
```

```
# Test database connection
sudo-u postgres psql-l

# Check database logs
sudo tail-50 /var/lib/pgsql/data/log/postgresql-*.log

Issue: Installation Failed
# View installation log
sudo cat /var/log/tower/setup-*.log | less

# Search for errors
sudo grep-i error /var/log/tower/setup-*.log

# Check disk space
df-h

# Check memory
free-h

# Re-run installation
cd /opt/ansible-automation-platform/ansible-automation-platform-setup-bundle-2.6-1
sudo ./setup.sh
```

Installation Complete! 

What You Have Now:

✓ **Fully functional Ansible Automation Platform**

- Automation Controller (automation execution)
- Platform Gateway (unified authentication)
- PostgreSQL Database (data storage)
- Redis Cache (performance)
- Receptor (job distribution)

Access Your Installation:

Web UI: <https://aap.example.com> or https://YOUR_IP **Username:** admin **Password:** (from your inventory file)

Next Steps:

1. **Security:** Replace self-signed certificates with proper SSL certs
2. **Integration:** Configure LDAP/AD for user authentication
3. **Automation:** Import your playbooks and inventories
4. **Organization:** Create teams and assign permissions
5. **Monitoring:** Set up log forwarding and monitoring
6. **Backup:** Schedule regular backups

Useful Commands:

```
# Health check
```

```
sudo /usr/local/bin/aap-health-check.sh
```

```
# View logs
```

```
sudo tail-f /var/log/tower/tower.log
```

```
# Restart services
```

```
sudo systemctl restart automation-controller
```

```
# Create backup
```

```
cd /opt/ansible-automation-platform/ansible-automation-platform-setup-bundle-2.6-1
```

```
sudo ./setup.sh-b
```

Support Resources:

- **Documentation:** <https://docs.ansible.com>
- **Support Portal:** <https://access.redhat.com/support>
- **Community:** <https://forum.ansible.com>
- **Knowledge Base:** <https://access.redhat.com/articles/>

 Congratulations! Your single-node Ansible Automation Platform is ready to use!