

Deploying OneAgent

> ****Series:**** ONBRD | ****Notebook:**** 5 of 10 | ****Created:**** December 2025

Getting Data Into Dynatrace

OneAgent is the foundation of Dynatrace monitoring. This notebook covers deployment strategies, installation methods, and verification steps to ensure your infrastructure is reporting data.

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Prerequisites

- Admin access to Dynatrace environment
- API token with `InstallerDownload` scope (created in ONBRD-02)
- Root/admin access to target hosts
- Network access from hosts to Dynatrace (port 443) or ActiveGate (ONBRD-03)
- Cloud integrations configured (ONBRD-04) for full context

1. What is OneAgent?

OneAgent is Dynatrace's unified monitoring agent that:

Capability	Description
-----	-----
Auto-discovery	Automatically detects hosts, processes, services
Full-stack	Infrastructure, application, and user experience
Zero configuration	Works immediately after installation
Distributed tracing	End-to-end transaction visibility
Log collection	Collects and forwards log data

![OneAgent Architecture]

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(see ONBRD-03).

3. Generating a Deployment Token

You need an API token with installer download permissions.

****Location:**** Account Management → Access tokens → Generate new token

Required Scope

Scope	API Name	Purpose
----- ----- -----		
PaaS integration - Installer download	`InstallerDownload`	Download OneAgent installer

Token Naming Convention

Use descriptive names:

- `prod-oneagent-deployment`
- `dev-installer-token`
- `k8s-operator-token`

> ****Important:**** Copy the token immediately after creation. It won't be shown again.

4. Installation Methods

Linux (Direct Download)

```
```bash
Download the installer
wget -O Dynatrace-OneAgent.sh \
 "https://{tenant-id}.apps.dynatrace.com/api/v1/deployment/installer/agent/unix/default/latest?
 Api-Token={token}&arch=x86&flavor=default"

Run the installer
sudo /bin/sh Dynatrace-OneAgent.sh
```
```

Linux (One-liner)

```
```bash
wget -O Dynatrace-OneAgent.sh "https://{tenant-id}.apps.dynatrace.com/api/v1/deployment/installer/agent/unix/default/latest?
 Api-Token={token}" && sudo /bin/sh Dynatrace-OneAgent.sh
```
```

Windows (PowerShell)

```
```powershell
Download the installer
Invoke-WebRequest -Uri "https://{tenant-id}.apps.dynatrace.com/api/v1/deployment/installer/agent/windows/default/latest?Api-Token={token}" -OutFile Dynatrace-OneAgent.exe

Run the installer
.\Dynatrace-OneAgent.exe
```
```

Configuration Management

For Ansible, Puppet, Chef, or other tools, see:

- [Ansible Collection](<https://docs.dynatrace.com/docs/setup-and-configuration/dynatrace-oneagent/installation-and-operation/linux/installation/install-oneagent-on-linux#expand--oneagent-deployment-automation-with-ansible--2>)
- [Puppet Module](https://forge.puppet.com/modules/dynatrace/dynatrace_oneagent)
- [Chef Cookbook](<https://supermarket.chef.io/cookbooks/dynatrace>)

5. Kubernetes Deployment

For Kubernetes environments, use the Dynatrace Operator.

Prerequisites

- `kubectl` access to cluster
- API token with required scopes
- Cluster admin permissions

Required Token Scopes for Kubernetes

| Scope | Purpose |
|---------------------|------------------------|
| ----- ----- | |
| `InstallerDownload` | Download OneAgent |
| `entities.read` | Read topology |
| `settings.read` | Read configuration |
| `settings.write` | Write configuration |
| `DataExport` | Export data (optional) |

Installation Steps

1. ****Navigate to Kubernetes monitoring****
 - Infrastructure → Kubernetes → Add cluster

```
2. **Follow the wizard**
  - Select your distribution
  - Choose observability options
  - Download dynakube.yaml

3. **Apply to cluster**
  ```bash
 kubectl apply -f https://github.com/Dynatrace/dynatrace-
operator/releases/download/v1.3.2/kubernetes.yaml
 kubectl apply -f dynakube.yaml
  ```

4. **Verify deployment**
  ```bash
 kubectl get pods -n dynatrace
  ```
```

6. Verifying Deployment

After installation, verify OneAgent is reporting data.

```
```dql
// Check all hosts with OneAgent
fetch dt.entity.host
| fields entity.name, state, monitoringMode
| filter state == "RUNNING"
| sort entity.name
| limit 50
```

```dql
// Check hosts by monitoring state
fetch dt.entity.host
| summarize host_count = count(), by: {state, monitoringMode}
| sort host_count desc
```

```dql
// Check hosts by monitoring state - useful for verifying deployment
fetch dt.entity.host
| fields entity.name, state, monitoringMode
| summarize host_count = count(), by: {state}
| sort host_count desc
```

```dql
// Check discovered services
fetch dt.entity.service
```

```

| fields entity.name, serviceType
| summarize service_count = count(), by: {serviceType}
| sort service_count desc
...

```dql
// Check for processes discovered
fetch dt.entity.process_group
| fields entity.name
| sort entity.name
| limit 50
...

### Host Verification Commands

**Linux:**
```bash
Check OneAgent status
sudo systemctl status oneagent

Check connection to Dynatrace
sudo /opt/dynatrace/oneagent/agent/tools/oneagent-connection-check

Check OneAgent logs
sudo tail -100 /var/log/dynatrace/oneagent/oneagent.log
...

Windows:
```powershell
# Check service status
Get-Service -Name "Dynatrace OneAgent"

# Check connection
& "C:\Program Files\dynatrace\oneagent\agent\tools\oneagent-connection-check.exe"
...

## 7. Troubleshooting

### Common Issues

| Issue | Cause | Solution |
|-----|-----|-----|
| **Host not appearing** | Network blocked | Check firewall rules for 443 |
| **Host showing but no data** | Agent not running | Restart OneAgent service |
| **Services not discovered** | Processes not restarted | Restart monitored applications |

```



```
| **Old OneAgent version** | Auto-update disabled | Enable auto-update or  
manual upgrade |  
| **Connection errors** | Proxy required | Configure ActiveGate or proxy |
```

Network Verification

```
```bash  
Test connectivity to Dynatrace
curl -v https://{tenant-id}.apps.dynatrace.com/api/v1/time

Check DNS resolution
nslookup {tenant-id}.apps.dynatrace.com

Test with OpenSSL
openssl s_client -connect {tenant-id}.apps.dynatrace.com:443
```
```

Process Restart Requirement

OneAgent injects into running processes. After initial installation:

- ****New processes**** - Automatically monitored
- ****Existing processes**** - Restart required for full monitoring

For deep code-level visibility, restart:

- Application servers (Tomcat, JBoss, etc.)
- Web servers (Apache, Nginx, IIS)
- .NET/Java applications
- Node.js applications

8. Next Steps

With OneAgent deployed and verified:

1. ****ONBRD-06: Organizing Your Environment**** - Set up tags, segments, and naming conventions
2. Wait 15-30 minutes for full topology discovery
3. Check Smartscape for service dependencies
4. Plan broader rollout based on pilot results

Deployment Checklist

- [] Pilot hosts deployed (2-5 hosts)
- [] Hosts appearing in Dynatrace
- [] OneAgent status "RUNNING" on all hosts
- [] Services being discovered
- [] Connection check passing
- [] Smartscape showing topology

Summary

In this notebook, you learned:

- What OneAgent does and how it works
- Phased deployment strategy
- How to generate deployment tokens
- Installation methods for Linux, Windows, and Kubernetes
- How to verify successful deployment
- Common troubleshooting steps

References

- [OneAgent Overview](<https://docs.dynatrace.com/docs/setup-and-configuration/dynatrace-oneagent>)
- [Linux Installation](<https://docs.dynatrace.com/docs/setup-and-configuration/dynatrace-oneagent/installation-and-operation/linux/installation/install-oneagent-on-linux>)
- [Windows Installation](<https://docs.dynatrace.com/docs/setup-and-configuration/dynatrace-oneagent/installation-and-operation/windows/installation/install-oneagent-on-windows>)
- [Kubernetes Operator](<https://docs.dynatrace.com/docs/ingest-from/setup-on-k8s>)
- [Deployment API](<https://docs.dynatrace.com/docs/dynatrace-api/environment-api/deployment>)