

# WHY DEPLOYING AI

## On Workstations Makes Sense for Federal Agencies



### THE SMART CHOICE FOR AI INNOVATION



**DEVELOP & DEPLOY AI EFFICIENTLY**  
No need for expensive server infrastructure



**BOOST PRODUCTIVITY**  
Workstations handle AI workloads locally with high performance



### THE AI DEVELOPMENT LIFE-CYCLE

Developing AI models requires a structured approach, with six key stages that are well-served by Workstations:



### ADVANTAGES OF WORKSTATIONS VS PCS:



**HIGH-GRADE PROCESSORS**  
(e.g., Intel Xeon Scalable)



**POWERFUL GPUS**  
(e.g., NVIDIA RTX 6000 Ada)



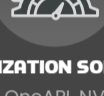
**LARGE MEMORY CAPACITY**  
(up to 6TB)



**HIGH-SPEED NETWORK INTERFACES**  
for efficient data transfers



**ERROR-CORRECTING CODE (ECC) MEMORY**  
for data integrity during AI training



**OPTIMIZATION SOFTWARE**  
(e.g., Intel OneAPI, NVIDIA CUDA)



### ADVANTAGES OF WORKSTATIONS VS SERVERS:



**PORTABILITY AND FLEXIBILITY**  
AI professionals can work from anywhere without relying on data-center availability.



**UNRESTRICTED EXPERIMENTATION**  
No need to request server access or deal with cloud billing concerns.



**OPTIMIZED PERFORMANCE**  
Workstations deliver interactive AI development with powerful AI GPUs, enabling faster iteration cycles.



**DATA LOCALITY**  
Computing closer to the data reduces bandwidth costs and network congestion.



### ADVANTAGES OF WORKSTATIONS VS CLOUD:



**AVAILABILITY RISKS**  
Cloud service outages can disrupt workflows.



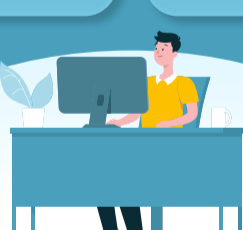
**SECURITY & COMPLIANCE**  
Regulations like GDPR and industry policies may restrict data movement.



**HIGH COSTS**  
Cloud compute fees can escalate rapidly, especially for AI workloads.



**PSYCHOLOGICAL PRESSURE**  
AI teams may hesitate to experiment freely due to unpredictable cloud costs.



### IN CONTRAST, WORKSTATIONS ALLOW AI PROFESSIONALS TO:



**WORK ANYWHERE**  
Ideal for secure, air-gapped environments.



**KEEP DATA LOCAL**  
Avoid compliance risks by processing data on-site.



**EXPERIMENT COST-EFFECTIVELY**  
Avoid metered cloud expenses while iterating on AI models.



### USE CASES FOR AI ON WORKSTATIONS

Deploying AI models on workstations is particularly useful in scenarios that involve large volumes of machine-generated time-series data, video streams, or images. These deployments often require real-time analysis and human oversight. Key use cases include:

AIOps

Manufacturing Plant Monitoring

Office Productivity Tools

Scientists and Researchers

Disaster Response

Drones for Infrastructure Inspection

Renewable Energy Management



**UNLOCK AI POTENTIAL WITH WORKSTATIONS**

**A PRACTICAL & SCALABLE APPROACH!**